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| | | | 1, Thirty-second annual report of the Department of 9 page lxxix is incorrectly numbered page lxxvix. | | |
| | In Sessional pap | er No. 11 | 1a, page 107 is incorrectly numbered page 10. | | |

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OF THE

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CONTENTS OF VOLUME 1.

(This volume is bound in two parts.)

Report of the Auditor General, for the year ended 30th June, 1899. Presented (in part) 6th
February, 1900, by Hon. W. S. Fielding. Presented (in part) 27th February, 1900.
 Printed for both distribution and sessional papers.

CONTENTS OF VOLUME 2.

- 2a. Estimates of sums required for the service of Canada, for the year ending on the 30th June, 1901.
 Presented 27th February, 1900, by Hon. W. S. Fielding.

Printed for both distribution and sessional papers.

- 3. List of Shareholders of the Chartered Banks of the Dominion of Canada, as on 31st December, 1899, Presented 4th May, 1900, by Hon. W. S. Fielding. Printed for both distribution and sessional papers.

CONTENTS OF VOLUME 3.

- 4. Report of the Superintendent of Insurance, for the year ended 31st December, 1899.
 Printed for both distribution and papers.
- 4a. Abstract of Statements of Insurance Companies in Canada, for the year ended 31st December, 1899.
 Presented 23rd April, 1900, by Hon. W. S. Fielding.

CONTENTS OF VOLUME 4.

 Report of the Department of Trade and Commerce, for the fiscal year ended 30th June, 1899. Presented 6th April, 1900, by Hon. J. Sutherland... Printed for both distribution and sessional papers.

CONTENTS OF VOLUME 5.

6. Tables of the Trade and Navigation of Canada, for the fiscal year ended 30th June, 1899. Presented 27th February, 1900, by Hon. W. Paterson. Printed for both distribution and sessional papers.

CONTENTS OF VOLUME 6.

 Inland Revenues of Canada. Excise, etc., for the fiscal year ended 30th June, 1899. Presented 26th February, 1900, by Sir Henri Joly de Lotbinière.

Printed for both distribution and sessional papers.

7a. Inspection of Weights, Measures, Gas and Electric Light, for the fiscal year ended 30th June, 1899. Presented 26th February, 1900, by Sir Henri Joly de Lotbinière.

Printed for both distribution and sessional papers.

- 7b. Report on Adulteration of Food, for the fiscal year ended 30th June, 1899. Presented 26th February, 1900, by Sir Henri Joly de Lotbinière..... Printed for both distribution and sessional papers.

CONTENTS OF VOLUME 7.

- 8c. Report on Canadian Archives, 1899. Presented 1st June, 1900, by Hon. S. A. Fisher.

Printed for both distribution and sessional papers.

CONTENTS OF VOLUME 8.

- Annual Report of the Minister of Public Works, for the fiscal year ended 30th June, 1899. Presented 17th May, 1900, by Hon. W. Mulock ... Printed for both distribution and sessional papers.
- Annual Report of the Department of Railways and Canals, for the fiscal year ended 30th June, 1899. Presented 2nd May, 1900, by Hon. A. G. Blair.

Printed for both distribution and sessional papers.

CONTENTS OF VOLUME 9.

 Annual Report of the Department of Marine and Fisheries (Marine), for the fiscal year ended 30th June, 1899. Presented 7th March, 1900, by Sir Louis Davies.

Printed for both distribution and sessional papers.

11a. Annual Report of the Department of Marine and Fisheries (Fisheries), for the fiscal year ended 30th June, 1899. Presented 12th March, 1900, by Sir Louis Davies.

Printed for both distribution and sessional papers.

11b. Report of Harbour Commissioners, etc., 1899..... Printed for both distribution and sessional papers.

CONTENTS OF VOLUME 10.

CONTENTS OF VOLUME 11.

- 14. Annual Report of the Department of Indian Affairs, for the year ended 30th June, 1899. Presented 28th March, 1900, by Hon. J. Sutherland. Printed for both distribution and sessional papers.
- 14a. Supplementary Crop Returns, for the year ended 31st December, 1899.

Printed for both distribution and sessional papers.

CONTENTS OF VOLUME 12.

- 16a. Civil Service List of Canada, 1899. Presented 12th February, 1900, by Sir Wilfrid Laurier.

 Printed for both distribution and sessional papers.
- 16b. Report of the Board of Civil Service Examiners, for the year ended 31st December, 1899. Presented 2nd May, 1900, by Sir Wilfrid Laurier... Printed for both distribution and sessional papers.
- 16c. Annual Report of the Department of Public Printing and Stationery, for the year ended 30th June, 1899. Presented 5th July, 1900, by Hon. S. A. Fisher.

Printed for both distribution and sessional papers.

CONTENTS OF VOLUME 13.

- Report of the Minister of Justice as to Penitentiaries of Canada, for the year ended 30th June, 1899.
 Presented 1st May, 1900, by Sir Wilfrid Laurier. Printed for both distribution and sessional papers.
- 18a. Statement of the action of the government in respect to the manufacture and sale of twine produced by convict labour. Presented 2nd April, 1900, by Sir Wilfrid Laurier.

Printed for both distribution and sessional papers.

18b. Report of the Commissioner appointed to investigate the affairs of the Dorchester Penitentiary. Presented 6th July, 1900, by Hon. C. Fitzpatrick.

Printed for both distribution and sessional papers.

- 19. Report of the Department of Militia and Defence of Canada, for the year ended 31st December, 1899. Presented 1st May, 1900, by Hon. F. W. Borden.
 - Printed for both distribution and sessional papers.
- 20. Correspondence relating to the despatch of colonial military contingents to South Africa. Presented 5th February, 1900, by Sir Wilfrid Laurier.
 Printed for sessional papers.
- 20a. Supplementary to No. 20. Presented 5th February, 1900, by Sir Wilfrid Laurier.

 Printed for sessional papers.

- 32. Statement of all superannuations and retiring allowances in the civil service during the year ended 31st December, 1899, showing name, rank, salary, service and cause of retirement of each person superannuated or retired, also whether vacancy filled by promotion or by new appointment, and salary of any new appointee. Presented 5th February, 1900, by Hon. W. S. Fielding.
 - Printed for sessional papers.
- 23. Statement in pursuance of section 17 of the Civil Service Insurance Act, for the year ending 30th June, 1899. Presented 5th February, 1900, by Hon. W. S. Fielding.

 Printed for sessional papers.
- 25. Return showing the expenditure on account of unforeseen expenses from the 1st July, 1899, to the 1st February, 1900. Presented 5th February, 1900, by Hon. W. S. Fielding........... Not printed.
- 26. Statement of Governor General's Warrants issued since the last session of parliament, on account of the fiscal year 1899-1900. Presented 6th February, 1900, by Hon. W. S. Fielding.
 Not printed.
- 27. Return to an address of the House of Commons, dated 10th July, 1899, for a copy of the treaty of 1825 between Great Britain and Russia, respecting Alaska, and for copies of the projets, protocols, and correspondence between the imperial government and the government of Russia respecting the said treaty, and subsequent thereto, and copies of the correspondence between the imperial government and the British ambassador at St. Petersburg during the negotiations for the said treaty. Presented 6th February, 1900.—Mr. McCarthy...... Printed for sessional papers.
- 28. Return to an order of the House of Commons, dated 19th April, 1899, for copies of all letters or reports (official) addressed to or in possession of the department of agriculture or any departments of the government on the subject of freight rates from Canadian or other ocean ports on this continent to any part of Europe; also of all letters or reports on the subject of freight rates from Chicago and other points to ocean ports, to Montreal, New York or elsewhere; also of all letters or reports on the subject of freight rates from Chicago or other points to Liverpool. Presented 6th February, 1900.—Mr. Davin.

- 81. Return to an address of the Senate, dated 26th July, 1899, for a copy of the report of the delegate sent by the government of Canada to the medical congress on tuberculosis, held at Berlin, Germany, in the month of May last. Presented 6th February, 1900.—Hon. Mr. Power...........Not printed.
- 33. Return to an order of the House of Commons, dated 19th April, 1899, for copies of all communications, orders and instructions issued by the department of the interior to the administrator, or any of his officials, in the Yukon district, with the dates of their despatch. Presented 12th February, 1900.—Mr. Foster
 Not printed.
- 83a. Supplementary return to an order of the House of Commons, dated 24th April, 1899, for copy of all reports to the minister of the interior, or to the department of the interior, or to any officer of that department from William Ogilvie, or from the council of the Yukon district, or from any member of such council relating to the administration of the said Yukon district or relating to any matter connected with the administration of the said district. Presented 12th February, 1900.—
 Mr. Borden (Halifax)
 Not printed.

- 38f. Return to an address of the House of Commons, dated 19th March, 1900, showing the number of gold claims in the Yukon which have been given in compensation for claims alleged to have been lost through mistakes of officials or otherwise, with all papers, correspondence, reports and orders in connection therewith and any regulations or instructions in relation thereto. Presented 5th April, 1900.—Mr. Foster
 Not printed.

- 33j. Supplementary return to No. 33g. Presented 24th April, 1900. Mr. Foster Not printed.
- 38k. Return to an order of the House of Commons, dated 25th April, 1900, for copies of petitions, correspondence, etc., on the subject of granting representation in the House of Commons of Canada to the Yukon territory. Presented 25th April, 1900.—Sir Wilfrid Laurier...Not printed.

- 38p. Return to an order of the House of Commons, dated 22nd May, 1900, for correspondence with the department of customs in re steamship Yukoner. Presented 22nd May, 1900.—Mr. Paterson.

 Printed for distribution.

- 33q. Return to an order of the House of Commons, dated 30th May, 1900, for a statement of the royalty paid by Alex. McDonald, of the Yukon territory. Presented 30th May, 1900.—Mr. Sutherland.
 Not printed.
- 33r. Return to an order of the House of Commons, dated 30th May, 1900, for copies of correspondence and papers relative to certain applications of J. M. Guerin, of Montreal, for leases to dredge certain rivers in the Yukon territory for minerals. Presented 30th May, 1900.—Mr. Sutherland.
 Not wrinted.
- 33s. Return to an order of the House of Commons, dated 7th February, 1900, for an itemized statement of the number of gallons of spirituous and malt liquors taken into the Yukon district since the period covered by Return 63g, 1899, the number of permits issued therefor, names and post office addresses of those persons or companies to whom permits were granted and the amount paid therefor, and all correspondence in connection therewith. Presented 5th June, 1900.—Mr. Foster.

 Tabular matter printed.
- 33u. Return to an order of the House of Commons, dated 7th June, 1900, for a copy of the report of Mr. William Ogilvie, commissioner of the Yukon territory in connection with the administration of affairs in that region. Presented 7th June, 1900.—Hon. J. Sutherland.

Printed for both distribution and sessional papers.

- 33v. Copies of certain resolutions passed at a mass meeting of British subjects of the Yukon territory, held in Dawson city on the 23rd March, 1900, and copies of certain petitions from the citizens' committee, praying for representation in the council of the Yukon territory, and also representation in the federal parliament. Presented 11th June, 1900, by Sir Wilfrid Laurier...Not printed.
- 33w. Return to an address of the House of Commons, dated 7th February, 1900, for copies of all reports, papers, telegrams and correspondence not already brought down relating to the closing (so called) and opening (so called) of Dominion Creek, referred to on page 79, Yukon Evidence Blue-book, including (a) minutes or notes of meetings or of council, such as referred to on pp. 79, 81, 85, 88, 89, 112 (Yukon Blue-book Evidence). (b) Report of Mr. Fawcett referred to, p. 80. (c) Typewritten statement, p. 100. (d) Order of Major Walsh, p. 110. (e) Returns, memoranda and reports of Corporal Wilson and other officers respecting inspection of mines and collection of royalties, p. 121. (f) The letter from Mrs. Koch to Major Walsh, p. 128. (g) The permit to Mrs. Koch, pp. 127, 128. Presented 13th June, 1900.—Sir Charles Hibbert TupperNot printed.

- 35. Return to an address of the Senate, dated 9th February, 1900, for 1. A copy of the statement of the case submitted to English council for their opinion as to the competency of the Canadian parliament to alter, by legislation, the electoral divisions of the Dominion, except upon the recurring occasions of the decennial proportionate readjustment of the representation provided for by the British North America Act, 1867, after the taking of each census. 2. A copy of the opinion so given by such counsel. 3. A statement of the fees or emoluments paid or granted to such counsel for such opinion. 4. Copies of all correspondence by the government, or any member of the government, or any person on behalf of the government or any member thereof, with said counsel or either of them with reference to such statement of case, or the opinion founded thereon; with copies of all messages, memoranda or documents made, had, submitted or taken with reference to said statement of case and said opinion. 5. The names of the counsel to whom application was made for such opinion, the date of such application, and the names of the parties by whom the application was made. Presented 1st March, 1900.—Hon. Sir Mackenzie BowellNot printed.

- 40a. Supplementary return to No. 40. Presented 31st May, 1900, by Hon. J. Sutherland... Not printed.

- 46. Return to an address of the Senate, dated 30th May, 1899, for a statement showing: 1. Names and residences of all parties filing claims against the crown in the exchequer court from July, 1893, to May, 1899.
 2. Dates of filing and nature of claim and amounts claimed.
 3. Dates of hearing each case.
 4. Dates when judgment was recorded, and amounts allowed; amount of costs awarded.
 5. Dates when award and amount was paid.
 6. A statement showing appeals to supreme and other courts, from decision of exchequer court.
 7. Names and residences of parties,

- 47. Return to an order of the House of Commons, dated 7th February, 1900, for copies of all correspondence in the possession of the government relating to the offer of Major General Hutton to serve in the South African war; and also all correspondence between the department of militia and defence and Major-General Hutton relating to the organization of the Canadian contingents despatched to Africa. Presented 2nd March, 1900.—Mr. Bourassa......Printed for sessional papers
- 48. Return to an order of the House of Commons, dated 19th February, 1900, for copies of all telegrams, letters, reports and documents of every description, between the department of militia and defence, or any member of the government, and J. H. Wilson, M.D., ex-M.P., or any person or persons on his behalf regarding the military parade-ground at St. Thomas, Ontario, and for which a large sum of money was placed in the Estimates of last year. Presented 2nd March, 1900.—Mr. Ingram.

- 55a. Return to an address of the House of Commons, dated 26th February, 1900, for copies of all correspondence with the imperial government, any of the colonies or any individuals, not already brought down, on the subject of the Pacific cable, and all papers, letters, telegrams and reports relating to the delays which have arisen in connection with the establishment of the undertaking. Presented 14th March, 1900.—Sir Charles Tupper.

Printed for both distribution and sessional papers.

- 56. Return to an order of the House of Commons, dated 24th April, 1899, showing the number of (a) passenger, (b) sleeping or parlour, (c) freight, (d) other cars purchased by the government for the Intercolonial Railway or other government railways since the first day of January, 1898. 2. The number of locomotive engines purchased by the government for the said railways during the said period. 3. The names, residence and place of business of the company, firm or person from whom each such engine and car was purchased. 4. The price paid for each such engine and car respectively. Presented 12th March, 1900.—Mr. Pope.

- 56c. Return (in part) to an order of the House of Commons, dated 29th May, 1899, for: 1. Copies of all claims presented to the government for lands purchased or expropriated for the construction or connected with the operation of St. Charles Branch of the Intercolonial Railway; also a statement showing the amount of each claim, the names of those whose claims have been settled for land purchased or expropriated. 2. For land and other damages, and the names and amounts of claimants whose claims are still unpaid, and the bills presented for legal or other expenses and the amount paid to each person or firm. Presented 2nd May, 1900.—Mr. McMullen....Not printed.
- 56c. Return to an order of the House of Commons, dated 7th May, 1900, for: 1. The total amounts of the freight charges mutually accounted for between the Intercolonial Railway and the Canadian Pacific Railway for the year ending the 30th day of June, 1897, and with respect to freight interchanged (1) at St. John, N.B., (2) at Montreal; (b) with respect to through freight bonded over (1) at St. John, N.B., (2) at Montreal; the said amounts for the year ending 30th June, 1899. 2. The total amounts, respectively, allotted to the Intercolonial and Canadian Pacific Railways in the division of passenger fares in connection with through passengers (α) via Montreal, (b) via St. John, N.B., for the year ending the 30th day of June, 1897. 8. The said amounts for the year ending 30th day of June, 1899. Presented 16th May, 1900.—Mr. Foster.

- 59. Return to an address of the House of Commons, dated 12th February, 1900, for copies of all despatches, papers and correspondence respecting the salaries of county court judges in the province of British Columbia, not already brought down. Presented 13th March, 1900.—Sir Charles Hibbert Tupper.
 Not printed.
- 61. Return to an order of the House of Commons, dated 12th February, 1900, for a statement of the number of permits to cut timber, fuel, or both, issued during the year 1899 by Martin Jérôme, or, upon his recommendation, by the crown timber inspector, or by any officer of the crown timber office at Winnipeg; the dates of such permits, the amount of fees collected or due, and the dates of payment, whole or part; also the names of the respective parties to whom these permits were issued. Presented 13th March, 1900.—Mr. La Rivière.
- 63. Return to an order of the House of Commons, dated 12th February, 1900, for reports, correspondence and papers relating to the ss. 'John C. Barr' admitted to the Canadian registry of shipping at Dawson. Presented 13th March, 1900.—Sir Charles Hibbert Tupper...Printed for distribution.
- 63b. Further supplementary return to No. 63. Presented 10th May, 1900..... Printed for distribution.
- 64. Return to an order of the House of Commons, dated 26th February, 1900, for copies of all letters, telegrams, evidence, reports, documents and papers in reference to or in connection with the dismissals of Isaac Dick and Bartholomew Brown as special fishery guardians in the county of Charlotte, New Brunswick. Presented 13th March, 1900.—Mr. Ganong.........Not printed.

- 64a. Supplementary return to an address of the House of Commons, dated 14th March, 1898, for copies of all orders in council, papers, depositions, reports, evidence, correspondence and documents in relation or reference to any charges made against Peter S. Archibald, lately chief engineer of the Intercolonial Railway, or to the dismissal of the said Peter S. Archibald from his position or office as such chief engineer, or the grounds or reasons for such dismissal, or in relation or reference to any claim of the said Peter S. Archibald for superannuation allowance or otherwise in relation or reference to the retirement or dismissal of the said Peter S. Archibald from the service of the Intercolonial Railway. Presented 14th March, 1900.—Mr. Borden (Halifax).......Not printed.
- 64b. Return to an address of the Senate, dated 28th April, 1899, for names of all commissioners appointed by order in council or otherwise since 9th April, 1897, to inquire into and report upon charges preferred against any employee of the government, whether permanent or temporary, of offensive partisanship, or of any misconduct whatever. 2. The reports of said commissioners, or of commissioners previously appointed, not already brought down, and a statement showing the action taken by the government thereon. 3. The amounts paid each commissioner since the 9th April, 1897, in fees per diem allowance, travelling expenses and incidentals of all kinds. 4. The names, ages, offices and salaries of all employees in the inside or outside service of the government, whether temporary or permanent, who since the 9th April, 1897, have been removed from office by dismissal, superannuation or otherwise, whether on a report of a commission or otherwise, specifying in each case the grounds of dismissal, and the amount of superannuation or gratuity granted if any; also the age, office, salary or remuneration of any and every person appointed in the place of, or as a consequence of any such removal. Presented 20th March, 1900.—

 Printed in abstract form.
- 64c. Supplementary return to 64b (Department of Marine and Fisheries). Presented 29th March, 1900.

 See 64b.

- 64f. Return to an order of the House of Commons, dated 28th March, 1900, for copies of all correspondence, telegrams, memorials or petitions with the signatures thereto, in possession of the government or any member or official thereof, relating to the dismissal of Mr. R. K. Brace as inspector of gas meters in the province of Prince Edward Island. Presented 2nd May, 1900.—Mr. Martin.

Not printed.

- 64h. Return to an order of the House of Commons, dated 16th May, 1900, for copy of the report of post office inspector W. W. McLeod into certain charges of offensive political partisanship against Mr. C. A. Gass, postmaster of Moosejaw, West Assiniboia. Presented 16th May, 1900.—Mr. Mulock. Not printed.

- Return to an order of the House of Commons, dated 26th February, 1900, showing the monthly statements of paid up capital, circulation and deposits of the Ville Marie Bank from 1st July, 1892. Presented 15th March, 1900.—Mr. Foster.

 Not printed.
- 69. Return to an address of the House of Commons, dated 7th February, 1900, for copies of all correspondence by letter or telegram, and all reports respecting the inquiry under royal commission dated 7th October, 1898; including references to or connected with the following subjects:

 (a) The limitation of the scope of the inquiry referred to in the blue-book of evidence, 1899, re
 Yukon affairs, at pp. 12, 13, 34, 35, 72, 73, 74, 75, 76, 85, 131, 132, 133, 134, 135, 196, etc.
 (b) Mr.
 Ogilvie's request for another commission, or an extension of the above, referred to on pp. 72, 74, 75, 76, of the above blue-book.

 Presented 15th March, 1900. Sir Charles Hibbert Tupper.

- 70. Return to an order of the House of Commons, dated 14th February, 1900, for copies of all correspondence, telegrams, reports or papers that have passed between the government, or any member thereof, and any person or persons or corporation in regard to a grant or grants of land, or minerals, or both, adjacent to White Horse Rapids, Yukon territory, during the last six months. Presented 15th March, 1900.—Mr. Prior.
 Not printed.

- 74. Return to an order of the House of Commons, dated 7th February, 1900, showing in tabulated form all tenders, accepted tenders and departmental agreements for supply of steel rails for the government railways, detailing quantities and price, dates, places of delivering and quantities delivered from July 1, 1896, to date. Presented 20th March, 1900.—Mr. Foster.....Not printed.
- 76. Return to an address of the House of Commons, dated 7th February, 1900, for copies of all reports, orders in council, papers and correspondence relating to the admission of United States vessels to coasting privileges on the Canadian lakes in the year 1899. Presented 20th March, 1900 Mr. Foster. Printed for both distribution and sessional papers.
- 76a. Copy of an order in council of the 16th October, 1899, and other papers respecting the suspension of the coasting laws; United States vessels permitted to carry cargoes between Fort William or Port Arthur, Ontario, and any other port in Canada, for the remainder of the year 1899. Presented 14th May, 1900, by Sir Wilfrid Laurier. Printed for both distribution and sessional papers.
- 77a. Return to an order of the House of Commons, dated 7th February, 1900, for copies of all correspondence between all members of the government, the militia department, General Hutton, or any other officers of the department, and Colonel Hughes in reference to the contingent sent to South Africa; also all correspondence between the Dominion and Imperial governments on the same subject, if any. Presented 23nd March, 1900.—Mr. CorbyPrinted for distribution.

- 80. Return to an order of the House of Commons, dated 29th May, 1899, for a copy of the report of W. H. Lynch, referred to by the honourable the minister of the interior (Hansard, page 1896, April 19th, 1899). Presented 26th March, 1900.—Sir Charles Hilbert Tupper......Not printed.
- 81. Return to an address of the House of Commons, dated 19th March, 1900, for copies of the order in council on which the royal commission on the shipment and transportation of grain was issued, of the commission, and of the letter of the minister of the interior to the late Judge Senkler, the chairman of said commission, respecting its issuance. Presented 26th March, 1900.—Mr. Davin.
 Printed for both distribution and sessional papers.

- 88: Return to an order of the House of Commons, dated 19th March, 1900, for copies of all correspondence between the department of marine and fisheries and persons in the province of Prince Edward Island, during the year 1898-9, relative to the removing of the range light from Savage Island to the sand-hills at Cascumpec harbour in that province. Presented 27th March, 1900.—Mr. Martin.
- 84. Return to an address of the House of Commons, dated 19th March, 1900, for copies of all papers, reports, correspondence and cablegrams between the Imperial government and the Dominion government, and of all orders in council passed by the Dominion government in regard to the repatriation of the 100th regiment. Presented 28th March, 1900.—Mr. Prior.......Not printed.
- 86. Return to an address of the House of Commons, dated 26th February, 1900, for copies of orders in council passed in 1898 and 1899 to enable the department of the interior to grant permits to cut timber on Dominion lands in Manitoba, and of all orders in council cancelling the same; copy of all applications made for cutting timber under such orders in council, and the conditions attached to any grants made for the same. Presented 28th March, 1900.—Mr. Davin....... Not printed.

- 88. Return to an order of the House of Commons, dated 26th June, 1899, for the contract with A. Onderdonk, or a copy thereof for the construction of the Canadian Pacific Railway, with the several awards made by the arbitrators chosen to value the rolling stock, and all letters and telegrams referring to the purchase of said rolling stock from the said Onderdonk; together with any opinion or opinions given by the justice department as to the obligations of the crown to take over the said rolling stock, together with the cheques given in settlement of said rolling stock, and all other papers and documents relating to the purchase of said rolling stock. Presented 2nd April, 1900.—Mr. McMullen.

- 96. Return to an order of the House of Commons, dated 19th March, 1900, for copies of all letters and memorials of the town council of Moosejaw to the government, or the department of the interior on the subject of the Moosejaw town site and certain lots claimed by certain parties to be exempt from taxation, and the replies sent thereto. Presented 6th April, 1900.—Mr. Davin..Not printed.

- 101. Return to an order of the House of Commons, dated 28th March, 1900, for copies of all correspondence between the government and their agents and any other person in regard to the omission of the lighthouse-keeper on Egg Island Light to show a light for some days during last winter. Presented 9th April, 1900.—Mr. Prior.
 Not printed.
- 103. Return to an order of the House of Commons, dated 26th February, 1900, for all tenders, contracts and correspondence relating to mail service between Hopewell Cape and Hopewell, Albert county, New Brunswick, since July 1, 1896. Presented 10th April, 1900.—Mr. Foster.......Not printed.
- 105. Return to an order of the House of Commons, dated 7th February, 1900, for copies of all correspondence, applications, grants and other papers relating to the area of and any part thereof covered by the following applications (and including the said applications and papers connected therewith) mentioned in Return 83, 3rd session, 8th parliament, 61 Victoria, 1893: W. J. Lindsay, Brandon, Stewart River; P. C. Mitchell; A. E. Philp, Klondike; F. Burnett, Vancouver, Hootalinqua; F. Burnett, Colborne, Indian River; J. G. Burnett, Edmonton, Peace River; F. Burnett, Colborne, Teslin River; A. E. Philp, Ottawa, S. Fork Stewart; G. Philp, London, L. Salmon; A. E. Philp, Ottawa, Indian River; A. D. Cameron, Ottawa, Indian River; F. A. Philp, Ottawa, Teslin River; W. L. Parish, Ottawa, Felly River. Presented 11th April, 1900.—Sir Charles Hibbert Tupper.
- 106. Return to an order of the House of Commens, dated 14th February, 1900, showing: 1. The amount paid each year for printing for the government of the North-west Territories, namely, from 1889 until 1899 inclusive, for ten years or at least until the audit of the North-west Government expenditure passed out of the hands of the auditor general. 2. The amount paid for advertising each year of the same period and for the same behalf. 3. The names of persons or officers or companies to which payment for each of these annual services was made. Presented 11th April, 1900.—Mr. Davin.
 Not printed.

- 108. Return to an order of the House of Commons, dated 19th March, 1900, for copies of all correspondence, telegrams and reports since 1st September, 1899, between the honourable the minister of militia, or his agents, and the district officer commanding military district No. 11, or any other person, in regard to the rifle range at Clover Point, Victoria, B.C. Presented 18th April, 1900.—
 Mr. Prior
 Not printed.

- 111. Return to an address of the House of Commons, dated 28th March, 1900, for copies of all statements, memorials, claims, memoranda, correspondence, telegrams, etc., with the government of Prince Edward Island and a delegation from that province, in the month of February, consisting of the Hon. Donald Farquharson, premier of the province, Hon. D. A. McKinnon, attorney-general, and Hon. Benjamin Rogers, in regard to all questions at issue between the government of Prince Edward Island and Canada. Presented 23rd April, 1900.—Mr. Martin................................ Not printed.
- 112. Return to an order of the House of Commons, dated 23rd April, 1900, for a copy of the correspondence respecting trade with Trinidad. Presented 23rd April, 1900.—Sir Louis Davies.

 Printed for both distribution and sessional papers.
- 114. Return to an order of the House of Commons, dated 28th March, 1900, for copies of all letters addressed, since the 1st January, 1899, to the minister of the interior, or any officer of the department of the interior, with regard to advances made by any person or company, to settlers on lands in Manitoba or the North-west Territories, under the provisions of clause 44 (as amended) of the Dominion Lands Act, and of the replies thereto; copies of all letters, circulars, schedules or other papers mailed by the said minister or any officer of the department of the interior, to any person or company, since the same date, upon the same subject, and of all replies thereto or other communications in any way concerning such subject, received by the department of the interior; also copies of all schedules prepared by the department of the interior since the above mentioned date, of lands in Manitoba or the North-west Territories so encumbered, giving the name of the settler, the usual description of the land encumbered, the amount of the encumbrance and rate of interest, the name of the person or company by whom the advance was made, the name of the assignee where the encumbrance has been assigned, and the name of the patentee, and date of patent where the land has been patented. Presented 24th April, 1900.—Mr. Douglas. Not printed.

- 116. Return to an order of the House of Commons, dated 19th March, 1900, for copies of all correspondence, specifications, plans, tenders received, and contract or contracts entered into by, or on behalf of, the government relating to the straightening of about two miles of the Prince Edward Island Railway between Colville and Loyalist. Presented 1st May, 1900.—Mr. Martin.

Not printed.

- Return to an order of the House of Commons, dated 19th March, 1900, showing: 1. Names of all officials in interior department, including Indian department, in Manitoba and Assiniboia.
 The whereabouts of those officials between the dates November 15, 1899, and December 15, 1899, and the particular work in which they were engaged. Presented 1st May, 1900.—Mr. Roche.
- 122. Return to an address of the House of Commons, dated 19th April, 1899, for copies of all letters or notices sent to the contractors by the minister of railways and canals, or the chief engineer, with relation to the re-letting of the work on the several sections on the Soulanges canal, and the replies made thereto by the contractors. Presented 2nd May, 1900.—Mr. Taylor....Not printed.

- 129. Return to an order of the House of Commons, dated 23rd April, 1900, for a statement showing total amount of money paid by years since 1st July, 1892, to the 30th June, 1899, on each of the following accounts: 1. Salary of governor general. 2. Travelling expenses of governor general. 3. Expenditure on Ridean Hall, on capital account; maintenance; grounds, on capital account; grounds, maintenance. 4. Expenditure on furnishings of all kinds for Rideau Hall. 5. Allowance to governor general for fuel and light. 6. Expenditure on any other account in connection with the office of governor general. 7. Expenditure on any other account in connection with Rideau Hall and grounds. 8. Total expenditure of every kind since 1st July, 1892, in connection with Rideau Hall and grounds for same period. Presented 4th May, 1900.—Mr. Wilson.... Printed for sessional papers.

- 132. Return to an order of the House of Commons, dated 7th February, 1900, for copies of specifications, plans and tenders received and contracts entered into by the government, relating to the construction of ten miles of railway known as the Belfast and Murray Harbour Railway, in the province of Prince Edward Island. Presented 9th May, 1900.—Mr. Martin.........Not printed.
- 134. Return to an order of the House of Commons, dated 19th March, 1900, for copies of all correspondence, telegrams, memoranda and all papers in the hands of the government, or any member or official thereof, relating to the admission of Newfoundland into the confederation of Canada.
 2. Also all similar documents relating to any proposals for the establishment of reciprocal trade relations between Newfoundland and Canada. Presented 9th May, 1900.—Mr. Martin..Not printed.
- 136. Return to an address of the Senate, dated 25th April, 1900, showing in detail the cost and nature of all repairs and alterations made to the steamer "Minto" since her arrival in Canadian waters. The said return to show the names of the parties who were employed in making these repairs and alterations, and the amount paid to each. Presented 9th May, 1900.—Hon. Mr. Ferguson.

- 139. Return to an address of the House of Commons, dated 10th May, 1900, for copies of orders in council and correspondence relative to the admission of the inscribed stock of Canada to the list of securities in which trustees in Great Britain are authorized to invest trust funds in their hands. Presented 10th May, 1900.—Hon. W. S. Fielding. Printed for both distribution and sessional papers
- 140. Return to an address of the Senate, dated 25th April, 1900, showing the expenses and earnings of the steamer "Stanley," while engaged on the winter service between Prince Edward Island and the mainland, for the years 1892, 1893, 1894, 1895, 1896, 1897, 1898 and 1899. And also a similar return for the steamer "Minto" for the winter of 1900. The above statement of expenses not to include repairs to either steamer. Presented 11th May, 1900.—Hon. Mr. Ferguson.. Not printed.
- 141. Return of the names and salaries of all persons appointed to, or promoted in the civil service during the calendar year 1899. Presented 14th May, 1900, by Sir Wilfrid Laurier........Not printed.

- 142. Return to an order of the House of Commons, dated 19th March, 1900, for copies of all accounts rendered by Captain S. M. Hatfield, fishery overseer for Yarmouth, and a return showing all amounts paid to him for salary, and all amounts paid to him for travelling expenses in each year since his appointment. Presented 14th May, 1900.—Mr. Borden (Halifax)........... Not printed.

- 147. Return to an order of the House of Commons, dated 29th May, 1900, for a copy of papers respecting purchase of boots for the mounted police. Presented 29th May, 1900.—Sir Wilfrid Laurier.

Not printed.

- 148a. Return to an order of the House of Commons, dated 23rd April, 1900, for copies of all correspondence had by the government with the British authorities, and with all parties in Canada relating to the purchase of hay for the troops in South Africa. Presented 29th June, 1900.—Mr. Hale.
 Not wrinted.
- 149. Return to an order of the House of Commons, dated 26th February, 1900, of all letters, telegrams, petitions and representations made by the town council of the town of Sydney, Cape Breton and of the Cape Breton board of trade, and of all persons to or with the department of railways, or any member of the government, remonstrating and protesting against the present arrangement of running the whole express train twice every day from North Sydney Junction to the wharf at North Sydney, a distance of about six miles each way, when on its way to and from the west to the terminus of the railway at Sydney. Presented 4th June, 1900.—Mr. Gillies......Not printed.

- 152. Return to an order of the House of Commons, dated 2nd April, 1900, of all correspondence, papers, report or reports in connection with the application for the establishment of a post office at Lavalle, in the township of Devlin, Rainy River district. Presented 4th June, 1900.—Mr. Sproule.
 Not printed.
- 158. Return to an address of the Senate, dated 7th May, 1900, showing: 1. The number of cars that have arrived at Halifax and St. John respectively, previous to the 10th April last, and which had not been unloaded at that date. 2. The dates upon which such cars arrived. 3. The names of the consignees of such cars. 4. The stations where such cars were loaded. 5. The names of the shippers. 6. The dates of shipment. Presented 6th June, 1900.—Hon. Mr. Wood.

- 158. Return to an order of the House of Commons, dated 12th June, 1900, for copies of correspondence, etc., respecting emergency rations. Presented 12th June, 1900.—Hon. F. W. Borden. Not printed.
- 160. Return to an address of the Senate, dated 2nd May, 1900, for: 1. Copies of specifications used in making contracts for the construction of the steamer "Minto." 2. Copies of all notices calling for tenders for offers to build said steamer. 3. Copies of all tenders received for the same. 4. Statement showing actual cost of said steamer, contract price and extras being stated separately. 5. Statement of extras, showing their nature in detail. Presented 11th June, 1900.—Hon. Mr. Ferguson.
 Not printed.
- 162. Return to an order of the House of Commons, dated 28th March, 1900, for copies of all papers and correspondence relating to claim of J. Wilson for services rendered marine and fisheries department in connection with Egg Island lighthouse, province of British Columbia. Presented 22nd June, 1900.—Sir Charles Hibbert Tupper.
 Not printed.
- 163. Return to an order of the House of Commons, dated 22nd June, 1900, for copies of correspondence between the department of finance and the Canadian Bank of Commerce respecting the government banking business in the Yukon district. Presented 22nd June, 1900.—Hon. W. S. Fielding.

Not printed.

- 164. Return to an address of the Senate, dated 15th May, 1900, for copies of all petitions, memorials or other communications received by the government since 1895, in regard to the construction of branch railways in Prince Edward Island. Presented 19th June, 1900.—Hon. Sir Mackenzie Bowell.
 Not printed.
- Return to an address of the Senate, dated 26th April, 1900, for a copy of all letters and correspondence exchanged between the government or any of its members, and the interested parties, on the subject of the Baie des Chaleurs Railway, of the Atlantic and Lake Superior Railway, of the projected railway known under the name of the Short Line Railway of Gaspé, and of the South Shore Railway Company in connection with the granting, or payment of subsidies to any of the said companies or the granting of any privileges to any of them; as well as a copy of all requests, petitions, resolutions, or other documents relating to any of these lines. Presented 21st June, 1900.—Hon. Mr. Landry.

- 170. Return to an order of the House of Commons, dated 28th June, 1900, for copies of all correspondence and reports of post office inspectors in connection with alleged irregularities at the post office, Kinnear's Mills, Quebec. Presented 28th June, 1900.—Hon. W. Mulock......Not printed.
- 171. Return to an address of the House of Commons, dated 28th March, 1900, for copies of all reports, papers, correspondence and orders relating to the retirement of Lieut-Col. Domville from the active militia service of Canada. Presented 30th June, 1900.—Mr. Foster.Not printed.

CONTENTS OF VOLUME 13:-Concluded.

- 176. Return to an address of the Senate, dated 20th June, 1900, for a statement showing in detail the work undertaken, expenditure incurred and results obtained in the experimental operation carried on last year in regard to orcharding in Prince Edward Island; giving the names of all persons employed to carry on the work and the amount paid to each, and stating on whose recommendation such persons were employed. Presented 13th July, 1900.—Hon. Mr. Ferguson. Not printed.

THIRTY-SECOND ANNUAL REPORT

OF THE

DEPARTMENT OF MARINE AND FISHERIES

1899

MARINE

PRINTED BY ORDER OF PARLIAMENT



OTTAWA

PRINTED BY S. E. DAWSON, PRINTER TO THE QUEEN'S MOST EXCELLENT MAJESTY

1900

[No. 11—1900]

To His Excellency the Right Honourable SIR GILBERT JOHN ELLIOTT EARL OF MINTO,
Governor General of Canada, etc., etc.

MAY IT PLEASE YOUR EXCELLENCY:

I have the honour to submit herewith, for the information of Your Excellency and the Legislature of Canada, the Thirty-Second Annual Report of the Department of Marine and Fisheries, Marine Branch.

I have the honour to be,
Your Excellency's most obedient servant,

LOUIS HENRY DAVIES,

Minister of Marine and Fisheries.

DEPARTMENT OF MARINE AND FISHERIES, OTTAWA, December, 1899.

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PART I.

THE REPORT OF THE DEPUTY MINISTER—THE REPORT OF THE CHIEF ENGINEER IN DETAIL RELATING TO CONSTRUCTION AND REPAIRS TO LIGHT—HOUSES, HYDROGRAPHIC SURVEY AND TIDAL SURVEY.

REPORT OF THE DEPUTY MINISTER.

To the Honourable

Sir Louis H. Davies, K.C.M.G.,

Minister of Marine and Fisheries.

Sir,—I have the honour to report on the transactions of the Marine Branch of this department for the fiscal year ended June 30 last, and to give an account of a portion of the business up to date.

In Part I. of this report will be found the detailed report of the Chief Engineer on construction and maintenance of lighthouses and other aids to navigation, and references to the reports of the Chairman of the Board of Steamboat Inspection, Chairman of the Board of Examiners of Masters and Mates, the Inspectors of Live Stock Shipments, the Director of the Meteorological and Magnetic Service, the Inspector of Signal Service, and the reports on Life-boat Stations and Rewards for Humane Service.

A short account of the work of the Dominion Steamers is given and the expenditure in connection therewith, the Buoyage of the coast, harbours and inland waters, the purchase of oil for the use of lighthouses, the Marine Hospitals in the Dominion, Certificates to Masters and Mates, Wrecks and Casualties and the Ice Boat Mail Service.

In Part II. the reports from which the synopses have been made will be found in extenso, also statements of expenditure, revenue, sick mariners' dues, wharfage, wrecks and casualties, steamboat inspection, and a list of light-keepers.

The amount expended on the various branches of the public service comprised in the Marine Branch of this department, during the fiscal year ended June 30 last, was \$1,020,259.08; the expenditure for the previous year was \$782,911.74. The expenditure for Civil Government, including the Marine and Fisheries branches, amounted to \$61,-426.16 and for Civil Government Contingencies \$11,407.81.

The amount voted by Parliament for the various branches, not including the departmental salaries, was \$1,068,124.00. It will thus be seen that the expenditure for the fiscal year was \$47,864.92 less than the amount voted by Parliament.

The whole number of persons in the Outside Service of the Marine Branch at the date of this report is 1,907.

During the past fiscal year the expenditure for maintenance of lighthouse and coast service amounted to \$472,751.93, construction \$64,705.63; total for maintenance and construction \$537,457.56; while for the previous year the expenditure for the lighthouse and coast service, including construction was \$474,216.67, showing an increase of expenditure for the year ending 30th June last of \$63,240.89.

The appropriation for this service was \$539,010, the expenditure being \$1,552.44 less than the appropriation of Parliament for the fiscal year.

LIGHTHOUSE SERVICE.

The lighthouse service of the Dominion is divided as follows:—The Ontario division, embracing all lights from Montreal westward to the North-west Territories; the Quebec 11—13

division, extending below Montreal and including the River and Gulf of St. Lawrence and Strait of Belle Isle; the Nova Scotia division, including St. Paul's Island, Cape Breton, Sable Island and Cape Race, Newfoundland; the New Brunswick division, the Prince Edward Island division and the British Columbia division each including lights within the provincial boundaries. The total number of light-stations, light-ships and fog-alarm stations in the Dominion on the 30th June, 1899, was 674 and lights shown 846, the number of steam-whistles and fog-horns, bells and guns 88, the number of light-keepers and engineers of fog-alarms with masters of light-ships, was 676.

The report of the Chief Engineer relating to lighthouse construction, repairs, hydrographic and tidal surveys, &c., will be found in Part I. The principal repairs, changes and improvements at existing stations are referred to in his report; also new aids to navigation. The work done at fog-alarm stations in connection with steam-whistles, compressed air horns and explosives, are dealt with under their proper headings. Information is also given respecting the extent of repairs and some account of the repairs in detail, under the head of the station.

CORRESPONDENCE.

The Correspondence Branch of the department is under the control of Mr. John Hardie, chief clerk of the department. About 15,640 letters, exclusive of telegrams, were received in the department during the fiscal year. This correspondence was carefully examined and replied to as far as necessary. About 15,000 letters were sent out during the same period. Forms, reports, circular letters, notices inviting tenders are not included in the number of letters addressed to this department or sent out. These forms, &c., are numerous and require special attention as the matters to which they refer are important.

In the Records Branch of the department the letters received are carefully examined, entered in the record book, placed on file and the copy of the reply attached, so that the letters and the answers can be readily seen, and any subject easily followed up.

MERCHANT SHIPPING.

Reports relating to merchant shipping for the calendar year of 1899 have not been received from the registrars of shipping, in the various ports of the Dominion. The reports are made up to the end of the calendar year, and therefore, will not be received until some time after the month of January, as required by the Canadian Merchant Shipping Act.

The statements showing the number of vessels on the registry books of the Dominion at the 31st of December, 1899, will appear in supplement No. 1 to this report. The number of new vessels built and registered will also be shown, and also a comparative statement of the tonnage of new vessels built and registered from 1874 to 1898, both inclusive.

Mr. W. L. Magee, chief clerk, attends to all matters in connection with merchant shipping.

BUOYS AND BEACONS.

The extended coast line of Canada, and numerous bays, inlets, rivers, lakes, harbours and other navigable waters require a large number of buoys, which are maintained at an

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average cost of \$55,000 per annum. For the fiscal year ending 30th June last, the service cost \$78,176.93. The cost of this service is increased in years when new contracts are given for steel signal and other coast buoys.

The Chief Engineer, in his report relating to buoyage, points out that the department has been substituting steel coast buoys for wooden buoys, with favourable results. The districts now buoyed, in all parts of the Dominion, number over three hundred and the buoys number over three thousand. A record of the names of shoals, dangers, reefs and various points in channels, harbours, &c., where the buoys are placed, is carefully maintained; this enables the department to immediately locate the buoys, when any reference is made to them in the correspondence.

The contract system has been found to work most economically and efficiently; in the majority of instances the contracts are immediately under the supervision of departmental officers, whose duty it is to report to the department any neglect of work on the part of contractors. There are now existing about 150 contracts, over 110 having expired and new contracts will be entered into in the spring. The contractors are paid semi-annually, upon the certificate of the superintending officer. There are, however, some districts not under contract; the work is being attended to by the harbour masters. In these cases it has been found more advantageous to place the work immediately in the hands of these officers.

A large number of whistling, bell and other iron buoys are maintained along the coasts of the several provinces by Dominion steamers, particularly Nova Scotia, New Brunswick and British Columbia. The cost of this maintenance by the steamers is not charged directly to the buoy service, but is included in the cost of maintenance of steamers which frequently perform the double duty of attending to lighthouses and the coast buoy service on the same trip.

The expenditure in connection with the buoy service for the year ended June 30, 1899, was as follows:

| For the province of Quebec, including the port of Montreal. \$39,644 11 |
|-------------------------------------------------------------------------|
| Above Montreal, including Ontario 6,323 73 |
| Nova Scotia |
| New Brunswick |
| British Columbia 5,409 81 |
| Prince Edward Island 3,320 97 |
| Total |

In addition to the buoys for marking dangers there are eleven gas buoys below Quebec and one spare buoy, also gas works and supply tanks, &c. Two gas buoys are maintained in Pelee Passage, Lake Erie and three in Parry Sound, Ontario. All of these buoys assist vessels at night by their light.

The contract for maintaining the buoys and beacons between Montreal and Quebec in the ship channel was cancelled in the spring of 1899. The steam barge "Shamrock which was built for the work by the late contractor, was purchased and officers were appointed who are immediately under instructions from the department in carrying out the work of buoying the channel. The buoys were increased in number and various changes and improvements were made.

Eighteen large steel conical top and ten 3-ft. iron can buoys were constructed under contract and placed in position by the "Shamrock". In addition to this a number of heavy spar buoys were prepared and put in the ship channel at various points.

The Chief Engineer of the department gave personal attention to the changes and improvements and provided for close supervision of the maintenance of buoys and beacons.

Several new beacons were erected and old ones improved. The Chief Engineer's report contains the details of the improvements made and the work performed during the season of navigation.

It will be observed that the total cost of the buoy service for the fiscal year is greater than usual; this is owing to the purchase of the "Shamrock" which vessel is used entirely for the buoy service between Montreal and Quebec.

Tenders were invited and contracts entered into for the following steel buoys during the year, viz., three bell buoys, two whistling buoys, two conical buoys and seven can buoys for New Brunswick; four whistling buoys, three bell buoys, five conical buoys and four can buoys for Nova Scotia; four conical buoys for Quebec, and six conical buoys for British Columbia.

OIL FOR USE OF LIGHTHOUSES.

Tenders were invited for lighthouse oil in March, 1897, and the contract awarded to the National Oil Company of Petrolia, Ont., their tender being the lowest, and a contract was entered into with them for three years. The contract was transferred to the Imperial Oil Company of Sarnia for the season of 1899 as the National Oil Company discontinued business.

The specification upon which tenders were invited requires the oil to weigh at 62° Fahr., not less than 7.85 nor more than 8.20 lbs. per gallon, and to withstand a flash test of 115° Fahr.

The quantity of oil supplied lights above Montreal during the season of 1899 was 21,782·18 imperial measure, which cost \$3,728.70; to the lights in the Quebec district, 12,915 gallons, which cost \$2,176.26; to the lights in the Nova Scotia district, 37,431 gallons, which cost \$7,948·93; to the New Brunswick district, 8,550 gallons, costing \$1,816.88; to the Prince Edward Island district, 7,501 gallons, costing \$1,650.33.

In addition to this the department purchased from the Standard Oil Company of New York 7,000 gallons of American oil for the Nova Scotia district at a cost of 15½ cents a gallon in New York; for New Brunswick 4,000 gallons, at 15½ cents per gallon; for the district above Montreal 1,150 gallons at the same price in New York. The freight was paid by the department. In addition to this 5,500 gallons of American oil was purchased for the British Columbia district at 21½ cents par gallon.

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The list of prices according to contract is as follows:--

| Delivered at | Per gallon in barrels. | Per gallor in case. |
|----------------------------------------|-------------------------------------------|---------------------------------|
| | cts. | cts. |
| sarnis Iamilton Kingston Jontreal | 15 ⁻ | 19 19 2 201 |
| Juebec tt. John, N.B. jeton, N.S | 16 1 16 1 168 | 201 211 211 211 211 |
| Halifax, N.S | 16 <u>1</u> 17 <u>1</u> | 21 1 22 |

DOMINION STEAMERS.

"NEWFIELD."

The "Newfield" is an iron steamer commanded by Captain John H. Campbell, and has a crew of 33 men. Her dimensions are: length, 206 feet; breadth, 29 feet; depth of hold, 16 feet; tonnage, 785 gross and 509 register.

The steamer "Newfield" was engaged in lighthouse service around Cape Breton, Cape Race, St. Pauls Island and Northumberland Straits, with the Superintendent of Lights and Mr. Stevens on board from the 1st to the 19th of July, 1898. The vessel was then prepared for cable service and was engaged in this service up to the 23rd of September.

On the 24th of September the "Newfield" loaded coal and other supplies for Sable Island. After visiting Sable Island and landing supplies the vessel returned to Halifax and landed the return stores.

The ship was then prepared to resume the cable work, in which service she was engaged until the 17th of November. Lighthouse supplies and buoys and moorings for the Western shore were taken on board on the 18th of November. The steamer was engaged in the lighthouse and buoy service in that locality until the 27th of November.

The "Newfield" was sent to take up the automatic buoys on the coast of Prince Edward Island, as the "Stanley" was then undergoing repairs. The steamer then resumed the lighthouse and buoy service in Nova Scotia and continued in that service until the 1st of January, 1899, when the crew was transferred to the "Aberdeen" and the "Newfield" was put into winter quarters.

On the 26th of April the ship left Halifax to engage in the lighthouse and buoy work. This service was continued until the 7th of May when a trip was made to Sable Island with supplies. Some wrecked goods from the SS. "Moravia" were taken on board at Sable Island and landed at Halifax. The lighthouse and buoy service was resumed on the 19th of May and was continued until the 30th of June.

Ordinary repairs were made to the "Newfield" largely by the engineer and assistants. The cost of repairs to the hull was \$507.92 and to the engine, \$4,226.01.

"LANSDOWNE."

The "Lansdowne" is a wooden steamer commanded by Captain Geo. W. J. Bissett, and has a crew of 34 men in all. Her dimensions are 188 feet in length, 32 feet in breadth and 15 feet in depth; gross tonnage 680 and register tonnage 463.

The steamer "Lansdowne" was engaged in the coast buoy service in the New Brunswick Agency from the 1st of July, 1898, to the 4th of the same month, on which date she entered upon lighthouse work. On the 22nd of July the steamer was sent to the Nova Scotia Agency where she was employed in the lighthouse and coast buoy service up to the 4th of November. The "Lansdowne" then made a trip to Sable Island, returning from that place on the 10th of November with return stores. From the 14th to the 21st of November the steamer was engaged in lighthouse work, she then returned to St. John and entered upon the work of supplying lighthouses and attending to the buoy service in the New Brunswick Agency.

The "Lansdowne" went into winter quarters at St. John on the 3rd of March, 1899. Extensive repairs were made to the ship while in winter quarters. On the 26th of April she was placed in Hilyards Dock and her bottom was copper painted. This occupied two days and the steamer was put in commission on the 30th of April.

The "Lansdowne" continued her usual work in the buoy and lighthouse service in the New Brunswick Agency, with the exception of several trips made during May and June to lighthouses in the Nova Scotia Agency supplying fog-alarms with coal.

Extensive repairs were made to the cabin of the "Lansdowne" and a heater supplied which involved considerable plumbing work. The stern outside was repaired, a new main rail was put on starboard side and steel plates were put on starboard and port side and on the bow. The fore rigging was shifted forward about three feet and the main deck and part of the poop deck caulked. About 50 feet of shoe was put on the keel.

New furniture was added to the cabin and some upholstering was done, costing \$44.20. Blocks and sheaves were repaired and new ones added, a new jib was also purchased.

Tenders were invited for painting the steamer inside and out. The painting cost \$345.30 with the exception of the copper painting on the bottom which work was done by the caulkers.

The repairs to the boiler and machinery cost \$1,021.22.

" ABERDEEN."

The "Aberdeen" is an iron screw steamer 180 feet long, 31 feet broad, and 16 feet deep; her tonnage is 674 gross and 266 tons net. Her Captain is Sigismund Belanger and her crew consists of 36, all told.

The steamer "Aberdeen" loaded lighthouse supplies at the Queen's Wharf, Quebec, on the 11th of July, 1898, and made a trip to Belle Isle with men and materials on board for the construction of a new lighthouse. A number of lighthouses were visited and supplied on the way to Belle Isle and on the return trip to Quebec. The steamer arrived at Quebec on the 13th of August when some painting and cleaning up was done by the

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crew. On the 18th of August a trip was made to Grosse Isle with the Canadian Medical Association on board, and the steamer returned to Quebec the same day. The "Aberdeen" made three trips in the Quarantine Service in August and September and she was otherwise engaged in the lighthouse service.

On the 5th of September the steamer left Quebec for Belle Isle and called at Cape Ray and Cape Norman on the way. Mr. Noble and several workmen were brought from Belle Isle to Quebec. The vessel arrived at Quebec on the 15th of September. On the 30th of the same month the steamer was sent out to pick up the anchor and chain of H.M.S. "Renown" and returned to Quebec on the 1st of October. Lighthouse supplies were then taken on board and the ship left Quebec on the 11th of October on the fall trip with supplies for lights in the River and Gulf of St. Lawrence, Straits of Belle Isle and Bird Rocks; she returned to Quebec on the 6th of November. The steamer left Quebec on the 14th of November to engage in the buoy and lightship service and continued in this service until the 30th of November.

The "Aberdeen" then proceeded to Halifax to replace the "Newfield" and arrived at Halifax on the 4th of December. She was engaged in the lighthouse and buoy service in the Nova Scotia Agency until the 20th of December. Supplies were then taken aboard and a trip was made to Sable Island, the vessel returning to Halifax on the 23rd of December. The buoy service was then resumed by the "Aberdeen" and continued until the 1st of March, 1899, on which date supplies were taken on board and another trip made to Sable Island. The crew of the wrecked steamer "Moravia" were brought to Halifax from Sable Island. Another trip was made to this station with supplies on the 8th of May. The "Aberdeen" was otherwise engaged in the buoy service up to the 30th of June.

"QUADRA."

The "Quadra" is an iron steamer and her dimensions are, length, 174 feet; breadth, 21·1 feet, and depth of hold, 13·6. Her gross tonnage is 573·30 tons, and her register tonnage 265·25 tons. This steamer is commanded by Jno. T. Walbran, and has a crew of 21 all told.

On the 1st of July, 1898, the "Quadra" was engaged on the west coast of Vancouver in connection with revenue work, she was engaged in this service until the 10th of July. The lighthouse and beacon service was then entered upon and continued until the 22nd of the same month, when the steamer was placed at the service of His Excellency the Governor General from the 22nd to the 23rd of July.

On the 28th of July the Mayor and Aldermen of Victoria and 180 ladies and gentlemen, members of the Wisconsin and Michigan U.S. Press, were conveyed from Victoria to Esquimalt and back.

The steamer then resumed her regular lighthouse and buoy work and continued in it up to the 20th of December. On the 21st of December preparations were made for overhauling the ship. The work was begun on the 23rd December, and the steamer was out of commission until the 16th of March, 1899. On that date she was placed in commission and entered upon the lighthouse service in which she was engaged until the 8th of April, when the work of cleaning and painting the ship was done.

On the 15th of April the ship entered upon the lighthouse and buoy service and was engaged in it until the 18th of June, when the Western Canadian Press Party

embarked at Victoria and the "Quadra" visited Seattle taking a number in addition from that port, these were all disembarked at Victoria on the 20th of June. The steamer then resumed the lighthouse and beacon work in which she was engaged until the 30th of June.

" STANLEY."

The "Stanley" is an iron steamer commanded by Captain Angus Brown and has a crew of 35 all told. Her dimensions are: length, 207 feet; breadth, 32 feet, and depth of hold, 19 feet; tonnage, 914 gross and 395 register.

The "Stanley" on the 1st of June, 1898 left Charlottetown to go into the service of the Customs Department in which she was engaged until the 4th of October. The ship then returned to Charlottetown for the usual overhauling and repairs for the winter service.

On the 15th of December the "Stanley" entered upon the coast buoy service and continued in this service until the 17th of the same month.

The steamer on the 20th December began the regular mail service between Charlottetown and Pictou, continuing on this route until the 29th December, when on going out and finding the Hillsborough Bay full of heavy ice and very cold it was decided to go to Georgetown. The vessel continued on the Pictou-Georgetown route until the 2nd of February, 1899, when she was caught in the ice on a trip from Pictou and did not reach Georgetown until the 18th of February. From the 20th to the 24th of February was occupied in making one trip. From the 25th February until the 9th of April the "Stanley" continued making all trips as regular as possible, having established return daily trips. The mails were transferred from the Capes route to the "Stanley." On the 17th April the ship returned to the Charlottetown route and continued on it until the 28th of the same month, when she was taken out of the service, the steamer "Princess" of the Steam Navigation Company, taking charge of the mails.

On the 29th of April the "Stanley" towed the spars of the wrecked barque "Bartins" out of the channel to the flats on the south side of the channel.

On the 2nd of May the steamer was prepared for the coast buoy service. On the 8th May Tryon Shoal buoy was placed, on the 9th Indian Rocks, and on the 11th the bell buoy and nun buoy at Tormentine Harbour. From the 11th to 22nd of May the men were engaged in scraping and cleaning out ballast tanks and other necessary work.

The "Stanley left Charlottetown for Pictou to have the bottom cleaned and painted on the 23rd of May. This work was completed on the 6th of June. A new automatic buoy for West Point Reef was then taken on board and placed in position, the steamer returning to Charlottetown on the 10th of June.

On the 12th of June the steamer again started on the Charlottetown and Pictou route for the Steam Navigation Company, their steamer going on the slip to be painted. This service was continued until the 15th of June, on which date the steamer was laid up for overhauling. This work was not completed on the 30th of June.

The gross earnings of the steamer amounted to \$12,187.24. The vessel carried 1,730 passengers and 121,420 packages of goods, besides doing mail service.

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" MINTO."

The "Minto" is an iron steamer 225 feet long, breadth 32.6 and depth 20.6; gross tonnage 1,089, net tonnage 371; indicated horse-power 2,900 and nominal horse-power 216. This steamer is commanded by Captain Allan Finlayson and has a crew of 35 in all.

The steamer "Minto" was built for the winter service between Prince Edward Island and the Mainland. As stated in last year's report the "Stanley" has been upon the route in winter since 1887, and a careful examination of that steamer's hull showed that it would not be prudent to depend entirely upon the "Stanley" to continue the winter service.

Tenders were invited for a new steamer in Great Britain and the tender of Messrs. Gourlay Brothers & Co., of Dundee, was accepted.

The "Minto" was built according to plans and specifications prepared by M. P. McElhinney, Nautical Adviser of the department. The vessel was successfully launched on the 12th of July, 1899, equipped and made ready for sea on the 13th of September. The captain, first officer and second engineer, together with twenty men were sent from Charlottetown to Dundee to bring the steamer out. The crew was increased by a few men who signed articles in Dundee.

The "Minto" left Dundee on the 14th of September, 1899, and arrived in Charlottetown on the 25th of the same month, having experienced a rough passage in which her good sea-going qualities were proved. The speed attained was 16 knots on her trial trip and 14 knots at sea.

The engines are triple expansion having cylinders 26, 41 and 65 inches diameter; the stroke is 39 inches. The vessel has improved corrugated furnaces fitted with force draught which can be used as required.

The stern has been specially designed for backing in the ice with an ice cutter to protect the rudder stock, the rudder itself is of solid cast steel. The vessel is provided with water ballast tanks in the bottom and trimming tanks forward and aft, and equipped with a special engine and pump for this purpose.

Experience has been gained by the service of the "Stanley" and in designing the new steamer improvements were kept in view. Instead of berths as in the "Stanley" eight state-rooms are provided, with two berths and a lounge in each. One specially large state-room is fitted up with beds and other conveniences. The dining saloon is sufficiently spacious and neatly furnished, upholstered and well lighted with incandescent electric lamps. Part of the saloon is furnished specially for the comfort of ladies and has the latest improvements in heating apparatus.

The main objects, however, have been to secure strength of hull and powerful engines.

"BRANT."

The "Brant" is a new wooden steamer 100 feet long over all, 19 feet in breadth and 8 feet depth; her tonnage is 141 gross and 57 net. The "Brant" is commanded by Captain D. Mackinnon and has a crew of 12 all told.

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This steamer was built in Charlottetown for a supply steamer for the Prince Edward Island lighthouse service and other work. The hull was built under contract with Mr. John White, of O'Leary Station, and the engines and boilers by Messrs Bruce Stewart & Co., of Charlottetown. The hull was built under Lloyd's inspection to class 10 years and the vessels bottom is sheathed with muntz metal.

The engine is of the compound expansion surface condensing type; cylinders, high pressure 14 inches and low pressure 28 inches, both having a stroke of 22 inches.

The "Brant" was launched on the 10th of June, 1899, but was not completed at that period. The machinery, equipment and furnishings were placed on board which enabled the steamer to enter upon the work of carrying lighthouse supplies during the season of 1899.

The total cost including contracts for hull, machinery, equipment and furnishings is about \$19,000. The "Brant" is fitted up with good accommodation for the officers and men, she is substantially built and is a very serviceable steamer. Her engines have worked well from her trial trip, giving a speed of $9\frac{1}{2}$ knots per hour with a small consumption of coal.

"SHAMROCK."

The "Shamrock" is a steam barge 117 feet long, 25 feet in breadth and 9.7 in depth; her gross tonnage is 237 and net tonnage 161. The "Shamrock" has a crew of 12 all told including Mr. U. P. Boucher, who is in charge of the steamer and directs her movements. The sailing captain is S. Savaugeau.

The "Shamrock" is used entirely in the buoy service in the ship channel between Montreal and Quebec. This vessel was constructed specially for this service by Mr. J. C. Kaine of Quebec, late buoy contractor, and was launched in 1898. She was purchased in the spring of 1899 at a cost of \$21,500, which included equipment and furnishings.

The steamer was engaged in buoy work in the St. Lawrence River from the 17th of April, 1899, until the 5th of December, when she was placed in winter quarters at Sorel, P.Q.

"BAYFIELD."

The "Bayfield" is a wooden steamer 110 feet long, 18 feet broad and 9 feet deep Mr. W. J. Stewart is in charge of the Hydrographic Survey and has as his assistants, Messrs F. Anderson and R. E. Tyrwhit. Captain A. M. McGregor is the sailing master of the "Bayfield" and the crew consists of 19 men in addition.

The "Bayfield" resumed the survey on the 3rd of May, 1899, and ended for the season on the 25th of October. The survey of the south shore of Manitoulin Island was completed. The steamer was then employed in surveying the north-east shore of Lake Huron between Cape Hurd and Lyal Island at the entrance to Stokes Bay. Slight repairs were made to the "Bayfield" in the spring.

" DOUID "

The "Druid" is an iron screw steamer of 161 feet in length, 21 feet breadth, and depth 9 feet. Her tonnage is 239 gross and 166 net. The vessel is commanded by Capt. Charles Kænig, and has a crew of twenty.

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From the 1st of July, 1898, to the 8th the "Druid" was engaged in assisting to build the pier at the Traverse, after which she entered on the work of replenishing gas buoys and beacon work. On the 25th of July a trip was made from Grosse Isle to Quebec. Similar work, namely replenishing gas buoys, visiting Traverse Pier and carrying passengers in connection with quarantine work was engaged in up to the 22nd of August. The steamer was then placed in Russels floating dock at Lévis to scrape and paint her bottom. After which her usual work was resumed, consisting of buoy work, delivering lighthouse supplies and quarantine work until the 20th November when the crew was discharged and the vessel laid up.

On the 20th April, 1899, the "Druid" left her winter quarters to place the light-ships and attend to the buoy service; this work was continued until the 22nd May when two trips were made to the quarantine station. The buoy and lighthouse service was resumed the next day. Another trip was made in the quarantine service on the 27th of May and on the 13th of June. The ship then resumed the buoy service and continued in this service until the 30th of June.

"SIR JAMES DOUGLAS."

This steamer was considered unsafe for use seven years ago owing to the worn-out condition of the boilers. It was not considered in the interests of economy to place new boilers in the "Douglas" as the hull was then nearly thirty years old. No use has consequently been made of the steamer for seven years and efforts have been made several times to dispose of her. In October of this year tenders were invited publicly and the highest offer received was from Mr. R. Winkleman for \$1,292.50. This offer was accepted and the vessel was transferred to the purchaser.

" DOLPHIN."

This small steamer was in commission in the Fisheries Branch for several years and when the Ontario Government assumed control of Fisheries matters in the province the "Dolphin" was put out of commission and sold to Mr. H. B. Harrison for \$700. The steamer had been many years in the Government service.

OTHER STEAMERS.

The "Acadia," "Petrel," "Curlew" and "La Canadienne" are engaged in Fisheries protection work and reports concerning them will be found in the Fisheries Report of this department.

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| Year. | Cost of Maintenance |
|-------------------|---------------------------|
| | \$ ct |
| 883-84 | 122,816 2 |
| 384-85 | |
| 385-86 | 130,759 |
| 386-87 | 141,424 |
| 387-88 | 150,659 |
| 388-89 | 126,629 |
| 89-90 | 114,959 |
| 90-91 | |
| 91-92 | |
| 992-93 | |
| 93-94 | |
| 94-95 | |
| 95–96 | |
| 196-97 | |
| 97-98 | |
| 398-99 | |

The following statement shows the expenditure for maintenance and repairs and the receipts of Government steamers for the fiscal year ended June 30, 1899:—

| Name. | Repairs. | Maintenance. | Total. | Receipts. |
|------------------------------------------|-----------|--------------------|--------------------|-----------|
| General Account | \$ cts. | \$ cts. 269 16 | \$ cts. 269 16 | \$ cts. |
| "Druid" | | 11,876 39 | 15,750 81 | |
| 'Lansdowne", | 1,486 01 | 25,841 97 | 27,327 98 | |
| ' Newfield " | | 16,184 09 | 20,919 02 | 1 |
| ' Quadra " | 1,312 81 | 19,157 94 | 20,470 75 | |
| 'Stanley" | 3,389 40 | 22,314 25 | 25,703 65 | 12,187 24 |
| "Stanley" "Aberdeen" "Sir James Douglas" | 4,412 69 | 30,321 44 95 25 | 34,734 13 95 25 | 183 50 |
| | 19,210 26 | 126,060 49 | 145,270 75 | 12,370 74 |

CERTIFICATES TO MASTERS AND MATES.

The report of Captain W. H. Smith, R.N.R., Chairman of the Board of Examiners of Masters and Mates, forms Appendix No. 5 of this report.

During the fiscal year the Board of Examiners of Masters and Mates held examinations at Halifax ten times, at St. John six times, Yarmouth two times, and at Quebec once; nineteen times in all. There were also three examinations held at Victoria, B.C., the papers and problems were forwarded to the agent at that place and returned to Halifax, for inspection of the Chairman of the Board.

At Halifax nine applications were made for foreign-going certificates of competency as master, and nineteen for coasting and inland; eight foreign-going and sixteen coasting and inland masters received certificates; seven applications were made for foreign-going certificates of competency as mate and three for coasting and inland; seven foreign-going and three coasting mates received certificates.

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At St. John four applications were made for foreign-going certificates of competency as master, and one foreign-going master received a certificate; twelve applications were made for foreign-going certificates as mate, and eight mates received certificates; one coasting master received a certificate.

At Yarmouth two applications were made for foreign-going certificates as master, and two foreign-going masters received certificates; two applications were made for foreign-going certificates as mate, and one mate received a certificate.

At Quebec two applications were made for foreign-going certificates as mate, and both received certificates.

At Victoria, B.C., four applications were made for mates' certificates foreign-going, and three received certificates.

The amount received for the renewal of certificates, inland, coasting and foreignseagoing, during the twelve months ended June 30, 1899, was \$148.

In supplement No. 1 to this report will be found a list of all who have obtained certificates of competency and service, either as master or mate, during the year ended 30th June, 1899.

INLAND AND COASTING CERTIFICATES.

During the twelve months ended June 30, 1899, the number of candidates in the Dominion who have passed and obtained masters' certificatesof service was eight, and one certificate of service has been issued; the amount paid for these certificates was \$68.

The number of certificates of competency as master was 223, as mate 68, and the amount paid for these certificates was \$3,557. The amount received for renewed certificates of competency and service was \$148, making a total of \$3,639.50 received from masters' and mates' inland and coasting certificates.

A list of certificates issued during the twelve months ended June 30, 1899, will be found in supplement No. 1 to this report.

The total amount of fees received on account of certificates of competency and service, sea-going and inland and coasting, during the fiscal year ended June 30, 1899. was \$4,486.50, and the amount in detail expended on account of the service as will be seen by reference to Appendix No. 1 to this report was \$3,568.26. The vote for this service was \$5,000, and the sum expended to June 30, 1899, \$3,568.26, leaving an unexpended balance of \$1,431.74.

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The following statement shows the total receipts and expenditure on account of masters and mates since 1871:—

| | | | | | | | Expe | ndi | ture. | Receip | ots. |
|---------|------------|---------|-----------|------|----|------------|-------------|-----------------|-------|-----------------------|------|
| | | | | | | | | \$ | cts. | \$ | cts |
| for the | fiscal yea | r ended | June 30. | 1871 | | | 1. | 410 | 45 | | |
| | 11 | | , | 1872 | | **** | | | 07 | 1,344 | 1 00 |
| | 11 | | 11 | 1873 | | | | | 18 | 4,963 | |
| | 11 | | 11 | 1874 | | | | | 19 | 2,99 | |
| | | | ,, | 1875 | | | | | 62 | 2,715 | |
| | | | •• | 1876 | | | | | 08 | 2,021 | |
| | 11 | | ., | | | | | | 00 | 1,740 | |
| | ** | | ,, | 1878 | | | | | 76 | 1,296 | |
| | | | | 1879 | | | | | iž | 1,334 | |
| | 11 | | | | | | | | 43 | 1,547 | |
| | ., | | ., | | | | | 848 | | 1,333 | |
| | | | ,, | | | | | | 19 | 1,152 | |
| | ., | | 11 | 1883 | | | | | 20 | 1,314 | |
| | ., | | 11 | | | | | | 59 | 9.437 | |
| | ., | | | | | | | | 15 | 2,897 | |
| | | | ** | | | | | | 28 | 2,152 | |
| | " | | 4 | | | | | | 98 | $\frac{2,132}{2,172}$ | |
| | " | | ., | | | | | | | | |
| | 11 | | ** | | | | | | 96 | 3,220 | |
| | " | | 11 | 1889 | | | | | 04 | 2,202 | |
| | " | | | | | , | | $\frac{117}{2}$ | | 2,186 | |
| | " | | | | | | | 255 | | 2,586 | |
| | ** | | 11 | 1892 | | | | | 88 | 2,194 | |
| | ** | | 11 | | | | | | 99 | 2,484 | |
| | 11 | | ** | | | | | | 33 | 2,907 | |
| | " | | | | | | | | 29 | 3,974 | |
| | • | | ** | | | | | | 82 | 2,307 | |
| | ** | | ** | | | | | | 29 | 3,754 | |
| | 11 | | 11 | | | | 3, | 335 | 40 | 4,800 | |
| | ** | | ** | 1899 | ٠. | | 3, | 568 | 26 | 4,480 | 5 50 |
| | | | | | | ••••• | 122, 77, | | 03 | 77,518 | 3 21 |
| | 1 | | ownondit. | | | r receipts | | 050 | 82 | | |

WRECKS AND CASUALTIES.

The total number of casualties to British and Canadian sea-going vessels reported to the department, as having occurred in Canadian waters and to Canadian sea-going vessels in waters other than those of Canada, during the twelve months ended June 30, 1899, was 255, representing a tonnage of 88,820 tons register, and the amount of loss both partial and total, to vessels and cargoes as far as ascertained, was \$542,890. The number of casualties to inland vessels was 15, tonnage 3,861, loss \$106,750.

The number of lives reported lost in connection with the casualties was 53. A statement of the wrecks and casualties will be found in supplement No. 1 to this report.

SICK AND DISTRESSED MARINERS.

MARINE HOSPITALS.

Under the provisions of chapter 76, Revised Statutes, a duty of two cents per ton register is levied on every vessel arriving in any port in the province of Quebec, Nova Scotia, New Brunswick, Prince Edward Island and British Columbia, the money thus

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collected forming the Sick Mariners' Fund. Vessels of the burden of 100 tons and less pay the duty once in each calendar year, and vessels of more than 100 tons, three times in each year.

By an amendment of this Act passed at the session of Parliament in 1887, 50-51 Victoria, chapter 40, it is provided that no vessel, which is not registered in Canada and which is employed exclusively in fishing or on a fishing voyage, shall be subject to the payment of this duty.

The receipts for the fiscal year ended June 30 last, amounted to \$57,365.79, being an increase of \$2,812.98 as compared with the preceding year. The increase in receipts for sick mariners' dues in the various provinces was as follows:—Nova Scotia, increase \$3,302.54; Quebec, decrease \$98.70; New Brunswick, increase \$6.73; Prince Edward Island, decrease \$86.62; British Columbia, decrease \$310.97.

The Sick Mariners' Act does not apply to the province of Ontario, and consequently no dues are collected from vessels in that province, although a small expenditure is incurred on account of sick seamen. An appropriation is made by Parliament to cover the expenditure at Kingston and St. Catharines, where general hospitals have been established and sick seamen are attended. During the fiscal year ended June 30 last sick seamen were paid for at a per diem rate of 90 cents.

In the province of Quebec the expenditure on account of sick seamen amounted to \$8,351.45, being \$294.53 more than the previous year. The total collections for the entire province amounted to \$17,478.41, being \$98.70 less than the previous year.

At the port of Montreal sick seamen are cared for at the General Hospital and at Notre Dame Hospital, under an arrangement made by the department, by which 90 cents per diem is paid for board and medical attendance of each seaman. The sick mariners' dues collected at the port of Montreal during the fiscal year ended June 30, amounted to \$8,550.16.

At the port of Quebec sick seamen were cared for at the Jeffery Hale and the Hotel Dieu hospitals, the sum of 90 cents per diem for each seaman is allowed in return for medical attendance and board. The sick mariners' dues collected at Quebec amounted to \$6,053.90.

The expenditure on account of sick seamen in the province of New Brunswick for the fiscal year amounted to \$5,252.23, being \$1,104 less than the preceding year, and the collection of dues to \$10,558.24 or \$6.73 more than the previous year. Marine hospitals have been maintained at Miramichi, Richibucto and Bathurst.

The Sackville hospital has been leased to Mr. Bradford Carter for a term of years from 1892, at a nominal rental. The terms of the lease require Mr. Carter to keep the buildings in repair, and if the department should require the hospital at any time it is to be handed over on notice being given.

In the province of Nova Scotia, marine hospitals are maintained at the ports of Yarmouth, Pictou, Sydney, Lunenburg and Point Tupper. The total expenditure on account of sick seamen in the province of Nova Scotia for the fiscal year amounted to \$15,067.63 and the receipts to \$20,719.42.

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At Halifax provision is made for the care of sick seamen at the Victoria General Hospital, under arrangements made with the managers, by which the sum of 90 cents per diem is allowed for board and medical attendance to sick seamen.

In the province of Prince Edward Island the amount expended on account of sick and disabled seamen during the fiscal year was \$1,102.53 and the receipts from sick mariners' dues were \$383.10.

Sick seamen are cared for at the Charlottetown and Prince Edward Island hospitals, under arrangements made with the managers of these institutions, at the same rate that is paid to the public hospitals in other parts of the Dominion.

In the province of British Columbia the sum of \$5,186.20 was expended for sick and disabled seamen, while the receipts from the collection of sick mariners' dues amounted to \$8,246.62.

The marine hospital at Victoria has in attendance a medical superintendent with a salary of \$300 per annum, a keeper whose salary is \$500 per annum. He is also allowed a rate of \$5 per week for board and attendance of each seaman. The keeper procures fuel, light, bedding, &c., at his own expense.

At ports where no hospitals are established in the provinces of Quebec, Nova Scotia, New Brunswick, British Columbia and Prince Edward Island, sick seamen are cared for under the direction of the chief officer of Customs, when the vessels to which the seamen belong have paid their dues according to law. A circular to collectors of Customs was issued February 7, 1891, permitting sick seamen to be attended to at the port of arrival of a vessel, provided that the regular dues were previously paid at some port.

During the fiscal year the sum of \$2,393.25 was expended for shipwrecked and destitute seamen, under the provisions of the Sick and Distressed Mariner's Act.

The total expenditure on account of sick and disabled seamen and Marine Hospitals amounted to \$37,353.29 and the appropriation by Parliament for this service was \$38,000. The dues collected amounted to \$57,365.79. It will be seen that the receipts exceed the expenditure \$20,012.50.

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The receipts and expenditure in connection with sick and distressed seamen from the year 1869 were as follows:—

| | | - | Receipts. | Expenditure |
|-----------------------------------------|---------------|------|------------------------------|------------------------|
| | | | \$ cts. | \$ cts |
| r the fiscal year ende | ed June 30, | 1869 | 31,353 78 31,410 46 | $26,987 6 \\ 27,029 3$ |
| " | 66 | 1871 | 29,683 41 | 28,971 2 |
| " | " | 1872 | 34,911 64 | 34,947 6 |
| " | 66 | 1873 | 37,136 10 | 41,016 4 |
| " | 66 | 1874 | 41,500 16 | 59,778 9 |
| " | 66 | 1875 | 37,801 46 | 50,684 7 |
| • • • • • • • • • • • • • • • • • • • • | 46 | 1876 | 41,287 66 | 48,828 4 |
| " | " | 1877 | 43,739 21 | 51,647 |
| 44 | 66 | 1878 | 44,665 07 | 43,780 9 |
| •• | " | 1879 | 37,779 57 | 42,729 3 |
| 66 | . 66 | 1880 | 42,523 20 | |
| " | 66 | 1881 | 49,779 72 | 42,160 9 40,667 8 |
| " | " | 1882 | | |
| " | " | | 45,951 47 | 39,359 1 |
| | " | 1884 | 45,573 42 | 36,249 6 |
| 66 | 66 | | 48,667 07 39,068 39 | 39,553 |
| 66 | " | 1885 | | 44,501 5 |
| 46 | " | 1886 | 40,848 05 | 50,377 6 |
| 46 | " | 1887 | 42,334 92 | 37,447 3 |
| " | " | 1888 | 41,669 64 | 36,447 |
| 66 | " | 1889 | 39,306 29 | 41,320 8 |
| 4. | | 1890 | 47,881 75 | 41,729 1 |
| " | " | 1891 | 43,829 68 | 35,155 |
| 4.6 | " | 1892 | 45,381 92 | 33,498 8 |
| " | " | 1893 | 46,190 69 | 35,052 |
| 4.6 | " | 1894 | 49,105 40 | 38,403 9 |
| 44 | " | 1895 | 42,815 74 | 38,332 5 |
| " | " | 1896 | 45,751 61 | 36,683 3 |
| 46 | 44 | 1897 | 54,358 10 | 35,931 1 |
| " | ** | 1898 | 54,552 81 | 34,526 8 |
| 46 | ** | 1899 | 57,365 79 | 37,353 2 |
| Total | | ha | 1,334,224 18 1,234,161 62 | 1,234,161 (|
| Deduct expenditur | e irom receip | ts | | |
| | | ture | 100,052 56 | |

STEAMBOAT INSPECTION.

The total number of steamboats reported in the several districts in the Dominion is 1,427. Of this number 112 are new vessels, the gross tonnage being 236,257.93. Fees were collected for inspection amounting to \$32,814.45; the fees from engineers for certificates amounted to \$910, and fees for inspection of tow barges to \$130, making the total receipts from steamboat inspection and engineers' certificates \$33,854.45. The receipts for the previous year from these sources amounted to \$31,525.40; it will thus be seen that the receipts of the fiscal year ending June 30, 1899, exceed the receipts of the preceding year by \$2,635.27. Owing to the increase of tonnage of steamers, mainly caused by the Yukon trade, and the additional work of inspecting steamers without certificates, not registered in the Dominion, the work of inspection has been increased in most of the divisions. A new inspector of machinery, who is also inspector of hulls, was appointed in British Columbia. The total expenditure in connection with inspection was \$28,035.49, showing an increase of expenditure for the last fiscal year of \$1,693.20.

The consolidated laws relating to steamboat inspection came into force on the 1st day of January, 1899.

 $11-2\frac{1}{2}$

The report of the Chairman of the Board of Steamboat Inspection forms an appendix to this report.

The following is a comparative statement of the receipts and expenditure in connection with Steamboat Inspection:—

| | | | Receipts. | Expenditure. |
|---------------------|------------------|----------|------------|--------------|
| | | | \$ cts. | |
| For the fiscal year | ended June 30, | 1870 | 12,521 29 | 7,379 18 |
| ** | 11 | 1871 | 10,369 96 | 8,321 0 |
| 11 | 17 | 1872 | 11,710 43 | 8,500 0 |
| 11 | 11 | 1873 | 15,412 75 | 11,205 5 |
| 11 | 11 | 1874 | 15,603 19 | 10,291 5 |
| 11 | 31 | 1875 | 15,011 90 | 12,199 8 |
| 11 | ** | 1876 | 13,811 24 | 13,081 8 |
| | 11 | 1877 | 15,858 42 | 12.073 0 |
| ** | 11 | 1878 | 12,431 25 | 13.228 2 |
| ** | 11 | 1879 | 12,331 16 | 13,076 4 |
| 11 | 11 | 1880 | 15,424 02 | 11.854 3 |
| 11 | 11 | 1881 | 16,905 49 | 12,211 6 |
| 11 | *1 | 1882 | 15,277 78 | 14,835 9 |
| ,. | 11 | 1883 | 12,577 36 | 16,209 0 |
| 11 | 11 | 1884 | 15,371 79 | 21,893 2 |
| ., | 11 | 1885 | 13,343 66 | 23,235 0 |
| 17 | 11 | 1886 | 14,087 76 | 21,775 5 |
| 11 | 11 | 1887 | 12,701 20 | 22,837 8 |
| 11 | 11 | 1888 | 12,550 14 | 21,430 4 |
| | 11 | 1889 | 12,576 18 | 22,313 0 |
| 11 | | 1890 | 19,859 18 | 20,989 5 |
| . " | 11 | 1891 | 21.644 72 | 22,183 7 |
| • " | | 1892 | 20,994 84 | 22,736 5 |
| 11 | | 1893 | 25,295 35 | 24,386 9 |
| | 11 | 1894 | 24,835 47 | 25,961 3 |
| | ** | 1895 | 24,630 56 | 26,385 8 |
| " | ** | 1896 | 24,002 32 | 26,321 2 |
| ., | ,, | 1897 | 25,094 95 | 26,837 8 |
| " | ., | 1898 | 31.525 40 | 26,342 2 |
| " | 11 | 1899 | 33,854 45 | 28,035 4 |
| | | <u> </u> | 527,663 12 | 549,153 8 |
| Deduct re | ceipts from expe | enditure | | 527,663 1 |

The following list contains the names of the inspectors of boilers and machinery and hulls and equipments of steamboats, viz:—

| Name. | | Address. | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------|
| Edward Adams M. P. McElhinney I. J. Olive S. R. Hill William Evans Alex. Horn P. D. Brunelle R. Collister John Dodds J. Johnson T. P. Thompson Wm. Laurie L. Arpin J. Samson J. P. Esdaile H. L. Waring J. A. Thomson. G. P. Phillips | Inspector of Hul | ls and Equipments. """""""""""""""""""""""""""""""""""" | | St. John, N.B. Halifax, N.S. Toronto, Ont. Kingston, Ont. Quebec. Victoria, B.C. Toronto, Ont. Kington, Ont. Montreal, P.Q. |

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MESSENGER PIGEONS.

Several attempts were made at Hazel Hill, N.S., where the pigeon loft is now situated, to train and fly some of the birds for use in the Sable Island service. The results were not satisfactory, as a number of the pigeons were lost and others returned to the loft in a dying condition. The report in detail of Mr. S. S. Dickenson, under whose care the birds have been placed, forms an appendix to this report. This service will be discontinued.

OUTSIDE SERVICE, MARINE BRANCH.

The number of persons employed in the Outside Service on the 30th June, 1899, was as follows :--

| making a total of | 1,907 |
|-------------------------------------------------------------------|-------|
| Making a total of | 1.007 |
| Wharfingers | 164 |
| Receivers of wrecks | 46 |
| Hydrographers and engineers at Ottawa | 7 |
| ing pay | 162 |
| Officers of observatories, meteorological observers, &c., receiv- | |
| Harbour masters | 206 |
| Shipping masters | 35 |
| Officers and servants in marine hospitals | 20 |
| Board | 19 |
| Examiners of masters and mates, and clerk to Chairman of | •• |
| " shipments of live stock | 4 |
| Inspectors of steamboats | 22 |
| Coxswains of lifeboats | 25 |
| ing Fisheries Protection Service | 436 |
| Officers and crews of Dominion steamers and vessels, includ- | 400 |
| Agent and light-keepers in British Columbia | 22 |
| Prince Edward Island | 49 |
| Agent, foreman of works, messenger and light-keepers, in | 40 |
| fog-whistle-keepers, &c., in New Brunswick. | 113 |
| Agent, clerk, messenger, superintendent of lights, light-keepers, | 113 |
| &c., in Nova Scotia. | 213 |
| fog-whistle-keepers, attendants at humane establishments, | 019 |
| Agent, clerk, messenger, superintendent of lights, light-keepers, | |
| | 182 |
| Montreal, in the province of Quebec | 100 |
| whistle-keepers, crews of light-ships, &c., at and below | |
| Officers of agency in the city of Quebec and light-keepers, fog- | 182 |
| and above Montreal | 100 |
| Superintendent of lights and light-keepers, &c., in Ontario | |

For the previous year the number was 1,825. In addition to the 1,907 mentioned above there are 71 registrars of shipping, who act under the direction and control of this department, but are, at the same time, collectors of customs at various ports of registration, and receive no salary or fee in their capacity of registrars. There are 94

measurers and surveyors of shipping throughout the Dominion who act as officers of this department, and are remunerated from their fees of office, although in addition to such office, many of them hold positions in the customs service. Also, in addition to the above by Orders of Council of the 21st of April and 2nd of December, 1874, the chief officer of customs at each port in the provinces of Quebec, Nova Scotia, New Brunswick, British Columbia and Prince Edward Island, where no separate shipping office has been established, is to be held and deemed a shipping master, is to receive the fees, make the yearly returns to the department, and act in that capacity under its directions.

LIVE STOCK SHIPMENTS.

In last year's report the statements furnished by Messrs. George Pope and E. B Morgan, inspectors at Montreal, contained the total number of live stock shipped from the port of Montreal for the season of 1898. The returns show that the total number of cattle shipped from Montreal during the season of 1899 was 81,804, a decrease of 17,385 from 1898. The total number of sheep shipped during the same time was 58,277, an increase of 23,336 over the shipment of the season of 1898. The number of horses shipped from Montreal during 1899 was 4,739, being 1,088 less than last year. The total number of United States cattle in bond shipped from Canada numbered 11,745. From Quebec were shipped 4,293 cattle and 779 sheep. From St. John, N.B., 8,579 cattle, 1,624 sheep and 303 horses. From Halifax 6 horses were shipped. From Charlottetown 1,593 sheep and 91 cattle were shipped. *Total from all these ports, 94,767 cattle, 62,273 sheep and 5,048 horses.

The shipments in detail will be found in the appendix to this report under the head of Live Stock Shipments.

METEOROLOGICAL SERVICE.

Efforts have been made to bring the monthly weather review of this service up to date. The monthly review gives a short description of the weather and brief articles on climatology. Six new stations were established in British Columbia, fifteen in the North-west Territories, two in Manitoba and eleven in Ontario.

The Departments of Agriculture in Ontario, Manitoba and British Columbia realize the importance of reliable meteorological data in connection with statistics of crops, acreage under cultivation, &c. Monthly charts containing notes on the leafing of trees and flowering of plants and other information are published. In August, 1896, the publication of a daily weather chart was commenced, containing information gathered from meteorological observations taken each day at 8 a.m. This chart is displayed in Toronto at the Board of Trade, Harbour Master's office, and at some of the public schools. Private individuals obtain the chart, paying for it \$4 per annum. The forecasts of the weather are telegraphed to 33 ports in the Maritime Provinces and also to all the principal ports on the Great Lakes. The value of these forecasts will be seen by reading the report of the Director.

SIGNAL SERVICE.

The reports of the Superintendents of Signal Service at Quebec and Halifax contain information valuable to mariners, Mr. J. U. Gregory is Superintendent of this service at Quebec, and Major H. B. Roberts of the Royal Engineers, at Halifax.

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ICE BOAT MAIL SERVICE.

This service began on the 18th of January, 1899, when the "Stanley" ceased to make daily trips, and was continued until the 13th day of April. During this time the following service was performed:—

| Number of mail bags carried | 5,707, as | against | 3,579 in | 1898 |
|------------------------------------|-----------|---------|----------|------|
| Extra baggage carried, lbs | 539 | " | 1,169 | 46 |
| Number of strap passengers carried | 66 | " | 136 | " |
| Number of passengers hauled | 26 | | | |

The expenditure for the ice boat service was \$8,637.18, which included wages, cost of boats and gear. The receipts from passengers and baggage amounted to \$249.42.

In the expenditure is included the cost of conveying mails for which the department receives no revenue.

REMOVAL OF OBSTRUCTIONS TO NAVIGATION.

The sum of \$1,000 was appropriated by Parliament for the removal of obstructions to navigation. By reference to the statement of expenditure it will be seen that the sum of \$745.49 was expended for the fiscal year. A statement in detail will be found in the report of the Chief Engineer of this department under the heading of Removal of Obstructions. The expenditure is given in detail for the amount that has been expended during the calendar year and therefore includes payments which have been made since the ending of the fiscal year.

COASTING TRADE OF CANADA.

By the provisions of chapter 83, Consolidated Statutes of Canada, being an Act respecting the Coasting Trade of Canada, no goods or passengers can be carried by water from one port in Canada to another except in British ships, but the Governor in Council may, from time to time, declare that the Act shall not apply to ships or vessels of any foreign country in which British ships are admitted to the coasting trade of such country, and to carry goods and passengers from one port or place to another in such country. The Parliament of Canada was empowered to pass the Act alluded to under the provisions of the Imperial Act, 32 Vic., chap. 11, intituled: "An Act for amending the Law relating to the Coasting Trade and Merchant Shipping in British Possessions," which came into operation in this country on its proclamation by the Governor General on the 23rd October, 1869.

It was ascertained that the following countries, viz., Italy, Germany, the Netherlands, Sweden and Norway, Austro-Hungary, Denmark, Belgium, and the Argentine Republic, allowed British ships or vessels to participate in their coasting trade on the same footing as their own national vessels—the ships of Italy by Order in Council of the 13th August, 1873; those of Germany by Order in Council of the 14th May, 1874; those of the Netherlands by Order in Council of the 9th September, 1874; those of Sweden and Norway by Order in Council of the 5th November, 1874; those of Austro-Hungary by Order in Council of the 1st June, 1876; those of Denmark by Order in Council of the 25th January, 1877; those of Belgium by Order in Council of the 30th September, 1879; and those of the Argentine Republic by Order in Council of the 18th May, 1881, were admitted to the coasting trade of Canada.

LEGISLATION.

During the season of 1899 the following Acts were passed:-

An Act further to amend the Act respecting the protection of Navigable Waters.

An Act respecting the Safety of Ships.

An Act to amend and consolidate the Acts relating to the Quebec Harbour Commissioners.

An Act respecting the Quebec Harbour Commissioners, Chapter 35.

An Act respecting the Harbour Commissioners of Montreal, Chapter 36.

F. GOURDEAU,

Deputy Minister of Marine and Fisheries.

DEPARTMENT OF MARINE AND FISHERIES, OTTAWA, January, 1900. i

ANNUAL REPORT OF THE CHIEF ENGINEER OF THE DEPARTMENT OF MARINE AND FISHERIES.

The Deputy Minister of Marine and Fisheries, Ottawa.

SIR,—I have the honour to submit a report of the work done in the several services under the supervision of this office during the twelve months ended on the 31st December, 1899.

This embraces most of the technical work at departmental headquarters, including the construction and maintenance of lighthouses, light-ships, fog-alarms, buoys and beacons: the supervision of construction and repairs of Dominion steamers, construction and repairs of lifeboats; the administration of the vote for the removal of wrecks and obstructions in navigable waters; tidal and current surveys; hydrographic surveys, and the publication, examination and correction of hydrographic charts; construction of and repairs to fish hatcheries and refrigerators; engineering points in connection with the construction and maintenance of fish-passes; supervision of surveys of oyster beds; examinations of applications for foreshore, wharf and water lots as they affect the interests of navigation; preparation and publication of notices to mariners and hydrographic notes, &c.

There are special staffs appointed for the tidal observation work and for the hydrographic survey work; the remainder of the work of the branch is attended to by the general staff of the office.

STAFF.

I am able again to refer in terms of the highest commendation to the quality and quantity of work done in my office by all the members of my staff.

- Mr. B. H. Fraser was specially entrusted with the supervision of new designs for large cast iron lanterns and the new patterns give us much stronger and better lanterns than the old ones. Mr. Fraser was sent out to superintend the erection of some of these lanterns, which enabled him to see that the fitting was properly made in the foundry.
- Mr. J. F. Fraser has, during the past year, been employed on special service. first half of the year, he was put in charge of the plans of the ship channel and has prepared new plans of portions which were not up to date so that we have now a complete record of the positions and fixes of aids to navigation in this important stretch. Latterly, he has been in charge of the designing and construction of fish bait freezers, and is now employed in the erection of buildings at different places.
- Mr. G. F. Smith, a man with large naval and engineering experience, was temporarily employed in the office for seven months. I regretted very much losing his services in consequence of his acceptance of a more highly remunerated appointment in New Zealand.
 - Mr. J. W. G. Roberts is being temporarily employed as a draughtsman.

Mr. W. H. Noble spent the summer on Belle Isle, completing the installation of the fog signal at that station. The sirens were successfully put in operation on the 9th September last. His work in connection with this installation was very arduous and particularly satisfactory.

OFFICE WORK.

A large proportion of the work done by the general staff of the branch consists in the construction and maintenance of light buildings, fog-alarms, buoys, beacons and other aids to navigation. Full details of the work done in this connection last year are contained in a separate report prepared by me, and attached hereto. (Inclosure A.)

Plans and specifications for all important new buildings and repairs are made or approved in this office.

The following table indicates the work done in the draughting office during the past year:—

| Description of work. | Plans designed. | Plans received. | Copies made. |
|--------------------------------------------------|--------------------|--------------------|---------------------------------------------------|
| ighthouse towers and dwellings. | 23 | | 61 |
| Vharfs, piers, &c, | $\frac{2}{1}$ | 3 | $\begin{smallmatrix} 17\\ 6\\ 2\end{smallmatrix}$ |
| uoys and apparatus Lachinery and surveys | $\frac{3}{2}$ | 3 15 20 | 7 4 39 |
| harts under construction | 1 | 5 | 11 |
| Siscellaneous Anterns lans relating to foreshore | 2 | 47 17 | 161 11 13 |

| Total plans for 12 months from January 1 to December 31, 1899 | 510 |
|---------------------------------------------------------------|-----|
| Charts received and recorded | 65 |
| entered in chart book | 54 |
| Photographs received and recorded | 115 |
| Specifications written | 18 |
| Notices to mariners is ued (comprising 200 subjects) | 100 |

PERSONAL INSPECTIONS.

During the past season, I have been more than usually occupied in personal visits to the coasts, in connection with the work of this branch. Among the most important inspections made, were a visit to the north shore of Prince Edward Island, in March, to ascertain the damage done by winter storms to light-stations in that district. The work necessitated in consequence of the shifting of bars and destruction of buildings will be found in the detailed report under the heading "Prince Edward Island." (Inclosure A.)

In May I visited New York, with the special view of inquiring into the use of oil engines as a source of power for operating fog-alarms and for inspecting the Atlantic coast light-ships used in the United States lighthouse service, with a view to securing the best type of light-ship for use on our own coasts. This department is under very great obligations to the United States Lighthouse Board for the courtesy extended to me on

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this trip. Mr. A. B. Johnson, Chief Clerk of the Board, was sent from Washington to meet me and to place at my disposal his very extended knowledge of sound signals, and Lt.-Colonel D. P. Heap, engineer of the 3rd lighthouse division, was especially kind in referring me to manufacturers, in showing me the very thorough equipment of the board, and in conveying me to points to be inspected on the lighthouse tenders. I secured much information of use to this department, on which I made special reports:

During the summer I was specially occupied in connection with the building, placing in position and completion of a permanent pier for a lighthouse at the Upper Traverse. This work was thoroughly successful in every respect. The pier was sunk in 24 feet water, on the 5th July, and was completed on October 26, at a cost of \$43,869·10. This work was superintended by Mr. L. Lemieux, wharf builder, of Lévis, who was temporarily employed by this department for the purpose and whose services are deserving of great praise. I consider the cost of erection reasonable, in view of the difficulty of working in so strong a tideway and in so exposed a situation. After the pier was sunk, there was considerable loss of time, with a corresponding increase in the cost of the finished work. I am thoroughly satisfied that we could not have had this structure placed in position satisfactorily by contract. Not only would the contractor have required a large margin to cover possible accidents but we could not have secured so good material and workmanship.

When the effect of winter storms and the spring run of the ice on the pier have been learnt we shall be in a position to erect a lighthouse on the pier next season. It is possible that some extra protection from waves and ice will be necessary to protect a permanent building.

In the month of October, I proceeded to Sable island and made a complete resurvey thereof, besides inspecting all the stations and becoming thoroughly acquainted with the work of the humane establishment on the island. The management of the island under the direction of Mr. R. B. LeBoutilier is particularly efficient, and there is little that could be improved in the existing status. The island has changed less in position and form since the survey of Bayfield was made than had been expected but it is steadily being eaten away at the west end and it will be necessary, within a year or two, to again move the west end lighthouse eastward. Protection of the island by the construction of breakwaters has been advocated, but I consider this would be so expensive that it cannot be undertaken.

REMOVAL OF OBSTRUCTIONS.

There were no heavy demands, during the past year, on the vote for removal of obstructions administered by this branch, but considerable useful work was made and a consistent effort is being made to compel the owners to incur the expense of protecting navigable waters by caring for their own wrecked property. Wherever an opportunity occurred, Government steamers were utilized to remove wreckage.

The following statement shows work done on wrecks as far as has come under the official notice of this department.

| Obstruction. | Locality. | Work done, &c. | Cost | t. | |
|----------------------------------------------|----------------------|-------------------------------------------------------------------------------------------------------------------|-------------|------------|--|
| Rock in Pallies Cove | Apple River, N.S | Marking wreck by lights. Wreck ultimately raised by owners Removed by harbour master Blown out by D.G.S. "Petrel" | $^{72}_{6}$ | cts. 00 57 | |
| Str. "Gerona" sunk Schr. "Nancy Anna" de- | Off Cape Sable, N.S. | Wreck buoyed. Masts removed by D.G.S. "Lansdowne" | 76 | 15 | |
| Schr. "Birma" ashore | Apple River, N.S. | Towed into Parrsboro Buoyed and moored. Ultimately broken up by ice and sea Removed by harbour master | 6 | 50 45 | |
| | Amherstburg, Ont | Lighting wreck, Removed by D. G.S. "Petrel" | 9 | 00 | |
| | | Buoyed | . | | |

A special vote of \$1,000 was granted last session for the removal of piers at the old bridge at Bear River, Nova Scotia, and a contract has been awarded for the work which has not yet been completed.

BUOYAGE.

The number of buoys maintained in Dominion waters steadily increases from year to year. Applications were received for new buoys from many localities. In some cases new buoys were added to the number in districts formerly buoyed and in other cases new districts were buoyed for the first time.

The Montreal ship channel received special attention directly under my superintendence. In the spring ten new conical top steel buoys were made under contract to replace can buoys on the port side of the channel. Subsequently eight more buoys of the same kind were made, and now all buoys except spar buoys on the port side, are conical buoys. Ten can buoys were also made and placed above Quebec in the channel and a number of superior spar buoys were added to the number already in position.

There are now about 330 districts including harbours, bays, rivers and lakes buoyed with over 3,000 buoys. Dangers on the open sea-coast are marked by the department's steamers with about eighty large steel buoys of various kinds, a large number being signal buoys.

All the large buoys on the more exposed portions of the coast and all the gas buoys in Quebec, whistling buoys and bell buoys and a number of can and conical buoys are maintained directly by this department, the Government steamers under the control of our agents being utilized as buoy tenders. In Quebec over fifty buoys, including eleven gas buoys are so maintained; in Nova Scotia thirty-three signal buoys are kept in position and about thirty steel can buoys, directly under the agency; in New Bruns-

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wick ten signal buoys and a number of can buoys are directly under the agency; in Prince Edward Island three signal buoys and in British Columbia about sixty large buoys of various descriptions are maintained by the agency; in Ontario four bell buoys and five gas buoys are maintained.

In some districts the harbour masters attend to the buoyage, in others the buoys are under the control of local harbour boards. In the remaining cases, buoys are maintained under a contract system, the contractors undertaking to maintain the buoys according to a strict specification for a bulk sum per annum. The contracts usually run for a period of three years. There are now about 150 contracts in force, a number having recently expired. The office work in connection with the maintenance of the buoy service and preparation of contracts is attended to by Mr. W. Stumbles.

Appended (Inclosure B) is a preliminary list of the buoys in the Dominion under departmental control.

In addition to the buoys there are a large number of unlighted day beacons on our coasts, a list of which has not yet been prepared.

LIGHTHOUSE AND BUOY TENDERS.

The system which had been in operation since the care of buoys and beacons between Montreal and Quebec was transferred from the Montreal Harbour Commissioners to this department, of letting the work by contract, did not inspire the confidence of shippers, and the department was urged to undertake the work under Government supervision and with a Government vessel. The existing contract was consequently cancelled in the spring of 1899, the contractor's buoy tender "Shamrock" was purchased by this department and during the season of 1899 the buoys and beacons were maintained under the direct control of this branch; Mr. U. P. Boucher, the contractor's engineer, being retained to manage the service. The whole system was efficiently maintained during the season of navigation, many additional buovs were placed, in accordance with the understanding with the shipping interests in the autumn of 1898, the sizes and character of the buoys were improved, the moorings were improved. additional beacons were placed and all the large buoys numbered. The result was very satisfactory. During the season not one complaint reached this department of a buoy being out of position or of the service being neglected and the buoys and steamer are in good condition for the opening of next season.

In consequence of the completion of the 14 ft. channel system between Lake Ontario and Montreal, a large increase in traffic is anticipated, and a large increase also in the size of vessels navigating this stretch. The Montreal shipping interests have urged on this department the desirability of removing the aids to navigation in the district affected, out of the hands of the contractors administering them, as was done in the ship channel. This would require the services of a small tug and of an assistant engineer, and is now under consideration. There is no question that the proposed change would increase the efficiency of the service.

The lighthouse service on the upper lakes has always been tended by a chartered steamer. Increased efficiency would result if a serviceable tender, to be maintained during the whole season under the management of this department, could be got. This would doubtless increase the efficiency. The same tender could place and lift all our

gas and other large steel buoys on the upper lakes, saving the amount of the present contracts.

HYDROGRAPHIC SURVEYS.

The hydrographic survey of the Canadian shores of the great lakes has made fair progress during the past season. Mr. Stewart, with his assistants, Messrs. F. Anderson and R. E. Tyrwhitt, and the steamer "Bayfield" completed the survey of the south shore of Manitoulin Island, making connection with the work done by Capt. Boulton, R.N., in 1884, at the entrance to Georgian Bay. He then surveyed the north-east shore of Lake Huron between Cape Hurd and Lyal Island at the entrance to Stokes Bay.

I submit herewith (Inclosure C.) his report of progress to October 31.

The steamer underwent slight repairs last spring and is in fair condition for one thirty-six years old, but hardly fit for the exposed work in the lakes.

A fair sheet of the work done between False Detour Channel and Duck Islands, Lake Huron, was draughted last winter and forwarded to the Hydrographer of the Admiralty. I regret to say no new engraved charts of the work done have been issued since my last report. The old Admiralty chart of Lake Erie has been revised and all our recent work engraved thereon.

The United States Hydrographic Office have issued a very complete new chart of Lake Erie, embodying all our recent survey.

During the coming season it is hoped to complete the survey of Lake Huron as far as necessary at present.

A new and complete edition of the Georgian Bay and North Channel Pilot was published in April last, and is already exhausted. A further edition will be prepared.

Some small harbour surveys were made by Capt. Walbran, master of the D.G. S. "Quadra", and the plans furnished to the Hydrographer of the Admiralty, for inclusion in the Admiralty charts.

TIDAL OBSERVATIONS.

In the survey of tides and currents, the series of principal stations has been maintained; and a further year of tidal record has thus been secured at seven commanding points on our eastern coasts; as well as from the two tidal stations in British Columbia. Tide tables have been prepared and issued as usual, and an important part of the results of the observations in the Bay of Fundy, has been worked out, in time to accompany the tide tables for 1900.

The amount of new work done in the past season has been relatively small, as Mr. Dawson was granted three months leave of absence on account of his health. The tidal stations were all visited and inspected, however, either by himself or Captain Douglas. One secondary tidal station was also established at the outer end of Belle Isle Strait; which will afford a valuable comparison between the open Atlantic tide at that point, and the tide as recorded at the principal station at the inner end of the Strait.

On account of the discontinuance of the tidal station on Anticosti Island, a thorough examination was made of the tidal relations on the Lower St. Lawrence, based upon

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the simultaneous observations obtained from the three principal stations upon it. This serves to indicate the best methods to follow, as regards calculation of the tides and the choice of ports of reference for this region.

The question of the improvement in accuracy, as between the tide tables now issued by the Tidal Survey and such tables as were available in the past, is discussed in Mr. Dawson's report of progress hereto annexed. (Inclosure D.) Comparisons are also given between the tides as predicted in the tide tables and the tides as observed at some of our principal harbours. The amount of tidal record already obtained is shown in tabular form; as well as the progress made in working this up, as a basis for tide tables

The United States Coast Survey requested permission to establish a station in 1897, at which the tidal currents in Seymour Narrows could be observed; as this information is of the first importance to navigation along the Pacific coast. The observations themselves were kindly communicated to this department; and the results are now given in the tide tables published by the U.S. Coast Survey. The time of slack water, at which alone steamers can pass, is thus given for Seymour Narrows. B.C. and for Sergius Narrows, in Peril Strait, Alaska.

Respectully submitted.

WM. P. ANDERSON. Chief Engineer.

January 2, 1900.

[INCLOSURE A.]

CHIEF ENGINEER'S DETAILED REPORT ON CONSTRUCTION AND MAINTENANCE OF LIGHTHOUSES AND OTHER AIDS TO NAVIGATION UP TO DECEMBER 31, 1899.

To the Deputy Minister of Marine and Fisheries.

SIR, -I have the honour to submit the usual annual report of work done in the construction and maintenance of aids to navigation for the year ended December 31

Lighthouses, fog alarms, buoys, beacons, and other aids to navigation throughout the Dominion of Canada are administered by the Department of Marine and Fisheries. The construction of new buildings and the more important repairs are under my direct supervision, the maintenance of existing stations is controlled by the several agents of the department, and the periodical inspection of the stations is made by inspectors resident in the different provinces, the agents in Prince Edward Island and British Columbia fulfilling the double duties. Much of the information contained herein is compiled from the annual reports of those officers.

63 VICTORIA, A. 1900

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The numbers and distribution of the several aids to navigation throughout the Dominion are shown in the following table:—

| District. | Light-stations. | Lights. | Keepers. | Light-ships. | Fog-sirens. | Fog-whistles. | Fog-horns. | Fog-bells. | Fog-guns or bombs. | Whistling-buoys. | Bell-huoys. | Gas-buoys. |
|---------------------------|-----------------|---------------|----------|--------------|-------------|---------------|------------|--------------|--------------------|------------------|-------------|----------------------|
| Province of Ontario | * 196 | * 253 | 182 | 3 | | 2 | 12 | 4 | | | 5 | 5 |
| Light-ships. | 3 | 255 | 102 | J | | | 12 | 4 | | | J | 3 |
| Province of Quebec | 121 | 168 | 143 | 7 | 1 | 4 | 8 | 1 | 8 | | | 11 4 (with bells) |
| Light-ships | 7 | 7 | | | | 3 | | | | | | +(with bens) |
| Province of Nova Scotia | 177 3 1 | 188 3 1 | 181 | 1 | · • • • | 9 | 6 | 2 | 1 | 19 | 16 | |
| Province of New Brunswick | 96 3 2 | 121 3 2 | 99 | 2 | | 4 | 8 | 1 | 1 | 5 | 4 | |
| Province of P. E. Island | 39 26 | 66 31 | 46 25 | | | _i | 1 5 | ₆ | | | 1 1 | |
| | 674 | 846 | 676 | 13 | 1 | 23 | 40 | 14 | 10 | 27 | 27 | 16 |

^{*} Light-ships and fog-alarms where there are no lights are in these two colums included in the total number of light stations and lights in the Dominion.

Supplies for the lighthouse service are rurchased in bulk, under contract, except in the case of articles of which only small quantities are required, in which case they are purchased locally in the open market. These supplies are distributed from the stores at each district headquarters, usually under the personal supervision of the Inspectors of Lights, who inspect the stations when delivering the supplies. They also arrange for all small ordinary repairs and the periodical painting of the buildings. These routine duties are not alluded to in describing the repairs executed at the several stations.

Work of construction and extensive repairs are usually executed under contract; minor repairs are done under the light-keepers' supervision, or by foremen employed in the several districts.

Light-keepers and fog-alarm engineers are expected to make any small repairs that can be reasonably expected of unskilled workmen, without charge, and are also called upon to do all painting required at their stations, being allowed some assistance when the buildings are so high as to require hanging scaffolds.

ONTARIO LIGHTHOUSE DIVISION.

This division includes the lighthouses and other aids to navigation in that part of the province of Quebec lying west of Montreal, all those in the province of Ontario, and those on Lake Winnipeg, in the province of Manitoba.

The number of lighthouses, lighted beacons and light-ships maintained by the Dominion in the Ontario division, as above described, is 242, located at 188 different stations.

The number of light-keepers in this division paid directly by t_e Government is 184, but in several cases assistants are employed by keepers and paid by them out of the allowance made by the Government for that purpose.

There are in Ontario 2 fog-whistles, 11 steam fog horns and 4 fog bells, operated by machinery, all located at light-stations, as well as 5 bell-buoys and 5 gas-buoys.

Besides the lights maintained by this department as above described, there are in Ontario the following aids to navigation: three lights on swing bridges, a system of lights on the Murray Canal, maintained by the Department of Railways and Canals, 5 pairs of range lights on the Detroit and St. Clair rivers, maintained by the American vessel owners principally interested, 11 wharf lights maintained by the municipalities or corporations to which the wharfs belong, and two range lights maintained by local interests at Pine Tree Harbour.

Six of these last described stations are aided by this department to the extent of being furnished with the necessary oil for their maintenance.

A steamer is chartered yearly for the supply of the light-stations on the River St. Lawrence and the great lakes, between Montreal and the head of Lake Superior, and the lighthouses are supplied and the stations inspected on this trip, which occupies about seven weeks, by Mr. Patrick Harty, Superintendent of Lights. The lights on the Ottawa River and a few small lights on isolated waters, including Lake Temiskaming, Lake Nipissing, Lake Simcoe and the Bay of Quinté, were not inspected. The lights on Lake of the Woods have been superintended by Mr. M. Kyle, Fishery officer at Rat Portage.

NEW AIDS TO NAVIGATION.

Burlington Bay inner light.

On May 15 a post double light was established on the inner end of the south pier of Burlington canal, west end of Lake Ontario, to guide to the canal from Hamilton and Burlington Bay.

The post is 20 feet high and with the braces and fittings, is painted white. It stands on the block at the extreme inner end of the south pier and is distant 1,300 feet S. 67° W. from the main tower.

The light is a double light, including a fixed red light shown from a square tubular lantern hoisted to the top of the post, elevated 24 feet above the level of the bay and visible from all points of approach in Burlington Bay; and a fixed white light shown from a similar lantern on the same post 6 feet vertically below the red light, and visible in the same directions. The two lights are adopted to distinguish them from railway or steamer lights.

This work was done by Mr. Thos. Campbell, lightkeeper, at a cost of \$16.42, the necessary lanterns and supplies being sent up from Ottawa stores.

Lighted buoys in approaches to Sault Canal.

This department took charge last spring of the private float light established in 1898, to mark the southern edge of the dredged cut at the turn opposite the front range light at the upper entrance to the Canadian Canal at Sault Ste. Marie. The fixed 11—3

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white light stands on a platform buoy or float moored between the black spar buoys marking the turn.

At the same time the department established a fixed red light on the superstructure of the red platform buoy marking the extremity of Vidal shoal; also a fixed white light on a float near the black buoy marking the turn from the axis of the canal to the alignment of the range lights at the lower entrance to the canal.

These three lights are shown from lens lanterns supported at a height of six feet above water on the superstructures of the platform buoys and should be visible two miles. They will be maintained throughout the season of navigation.

The light below the canal is maintained by the canal officials, this department furnishing the illuminating apparatus and supplies. The two lighted buoys above the canal are attended to by one of the canal tugs, at a contract price of \$70 per annum.

AIDS TO NAVIGATION DISCONTINUED.

The department learned that no private light is maintained at Port Bruce, on Lake Erie, and this aid to navigation was consequently removed from the list of lights.

The fog bell rung by machinery at Michipicoten Island light station, on Lake Superior, broke. As the harbour there is not now frequented by shipping, it was not thought desirable to place a new bell there and the fog alarm was discontinued.

The light on Michael Point, Lake Huron, was discontinued from the close of navigation last year, as indicated in last year's report.

The private range lights formerly maintained by the Lake Carriers' Association at Point Edward, Sarnia, have also been discontinued and their description has been removed from the Canadian list of lights and fog signals.

UNITED STATES WORK IN AND NEAR CANADIAN WATERS.

The United States Government has, like in past seasons, done a great deal of work especially in the channels of the St. Mary River and the stretch of water between Lakes Huron and Erie. Among other improvements made of which mariners were duly informed by printed notices, may be enumerated:—

The establishment of a pole light on the head of Carleton Island, Thousand Islands.

The establishment of a gas buoy on the shoal lying off Galloo Island lighthouse, easterly end of Lake Ontario.

The establishment of range lights leading into the head of Niagara River.

The establishment of gas buoys on Kellys Island south shoal and off Peach Orchard Point, in the westerly part of Lake Erie.

The establishment of a system of lights on the 20-foot channel at the foot of Lake St. Clair, to guide from the lake into the Detroit River and the re-arrangement of the Ile aux Pêches range lights.

The re-establishment of range lights at Fort Gratiot to lead from Lake Huron into she St. Clair River.

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The replacement of the Mud Lake turning gas buoy by a pole light on a crib sunk at the intersection of the Winter Point and Pilot Island ranges.

The establishment of three gas buoys in Vidal shoal channel, in the upper approach to the American canal at the Sault and of a gas buoy off Gros Cap.

The wreck of the *Monitor*, which foundered last year just above Pointe aux Pins, in the River St. Mary, was removed by the United States Government late in the fall of 1898.

IMPROVEMENTS AND REPAIRS AT EXISTING STATIONS.

McTavish Point.—The light was improved by supplying an anchor lens lantern showing a fixed white seventh order dioptric light instead of the lantern with pressed glass lens previously used.

Green Shoal.—The light was improved by replacing the reflectors formerly used by a dioptric lens of the seventh order. The pier of the lighthouse at this station has been for many years in a bad state of repair, and it will be necessary, before next spring's high water, to begin rebuilding operations.

Snake Island.—The lighthouse referred to in last year's report was erected on Snake Island reef during the past season. It will be put in operation on the opening of navigation in 1900. It stands on a cylindrical steel and concrete pier built near the south end of the shoal surrounding Snake Island, at a distance of 850 feet S.E. by E. ‡ E. from the existing lighthouse on the shoal. The total cost of the new work has been \$1,309.07.

Murray Canal.—The Department of Railways and Canals have improved the character of the lights at the east and west entrances of the Murray Canal, adjoining the Bay of Quinte and Presqu'ile Bay. The former lights were fixed red lights shown from small lanterns standing on brown pyramidal open frames. The new lights are fixed white lights elevated 27 feet above the level of the water and visible five miles from all points of approach. The light buildings, which stand on the sites of the old frameworks, 30 feet from each end of the north pier of the canal, are inclosed hexagonal galvanized iron cabins, with cylindrical columns surmounted by the lenses rising from the apexes of the roofs. Each is 18 feet high, from the deck of the pier to the lens, and is painted white.

Port Dalhousie — The new lighthouse tower, mentioned in last year's report, was duly completed at a cost of \$2,943.19.

Pointe Pelée.—The boiler and steam fog alarm unexpectedly gave out October 12, and it was consequently necessary to discontinue the operation of the fog alarm at this station until the 20th of the same month. The boiler was retubed in the interval, at a cost of \$115.84.

Flower Pot Island.—Tenders were invited last fall for the erection of a keeper's dwelling at this station, but the offers received were so high that the erection of the building has been deferred. The keeper has been authorized to build a small wharf to Protect the boat harbour, on the east side of the island, and the boat-house, erected near the lighthouse, will be removed to the new harbour on the ice this winter. A site, containing 24.37 acres, and a site for the wharf and boat-house, with right of way between the two properties, have been purchased from the Department of Indian Affairs for \$8.64.

Battle Island.—The revolving machinery broke down on August 6, and the light was shown as a fixed light until repairs were completed on the 21st of the same month.

Port Arthur.—A hand fog horn has been supplied to the light station with which signals from passing vessels will be answered in thick weather.

Rainy River Range.—The mast formerly in use, from which the back range light at the mouth of Rainy River, Lake of the Woods, was exhibited, has been removed, and its place is now filled by a tower on a wooden cribwork pier, standing in the lake at a distance of 800 feet S. E. by S. from the front tower.

The tower is a skeleton wooden square structure with sloping sides, with the side facing the alignment slatted to make it more conspicuous as a day beacon, and with the upper part inclosed to form a lamp room. It is painted white, and is 36 feet high from the pier to the ridge on the roof.

The light is fixed red, elevated 40 feet above the level of the lake, and should be visible nine miles in the line of range. The illuminating apparatus is catoptric.

The front range light remains fixed white as heretofore. The foundation on which the tower stands has been changed from pilework to a wooden cribwork pier.

This work was done under contract by Mr. Wm. McKay, of Beaver Mills, Ont., and cost \$999.

The following minor repairs were made to the lights above Montreal during the year 1899:—

| year 1099 :— | | | | | |
|--------------------|-----------------------------------------------------------------------------------------------------------|----|------|--------------|----------------|
| Light Station. | Repairs. | * | cts. | Boats. | \$ cts. |
| Jones Island | Putting in a new window and building a chimney in one of the rangelights. | | 7 00 | | |
| Kincardine | General repairs to tower and dwelling, and removing an old building | 17 | 7 77 | | |
| Barryfield | Repairs iron work | 6 | 0 90 | | |
| Lachine Pier | | | | New boat | 18 00 |
| Lightship No. 2 | Repairs caused by a collision with tug Glide | 1 | 9 50 | Rent of boat | 18 00 10 50 |
| Lightship No. 3 | Cleaning and scraping bottom and stopping leakage at Cantin's dry dock Montreal, with other small repairs | | 7 98 | 2 boats | 36 00 10 50 |
| Lightship No. 1 | Repairs to fog horn and deck of vessel. | 2 | 0 00 | New boat | 18 00 |
| Lamb Island | Lumber and shingles for repairing boat house | 3 | 0 05 | | |
| Lime Kiln Crossing | Painting | | 7 30 | | |
| Lindoe Island | Repairing and shingling kitchen of dwelling and shingling boat house | 7 | 8 61 | | |
| Lonely Island | Repairs to tower | | 5 25 | | |
| Middle Island | Painting | 2 | 4 00 | | |
| Mississagi Island | Lining kitchen, new floor and other small repairs | 9 | 1 20 | | |
| | Painting tower | i | 7 00 | | |

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Minor repairs to the lights above Montreal during the year 1899.

| | | | | | |
|-------------------------|--------------------------------------------------|-----|------------|------------------|------------|
| Light Station. | Repairs | \$ | cts. | Boats. | \$ cts. |
| McKies Point | Lumber for fencing | 20 | 50 | | |
| Beauharnois | Painting | 8 | 3 00 | | |
| Belleville | n | 10 | 3 25 | | |
| Bois Blanc | Repairing boat house | 14 | 1 00 | | |
| Burlington Beach | Repairs to dwelling | 1: | 2 71 | Repairs to boat | 10 00 |
| Cape Robert | Repairs to kitchen | 28 | 3 75 | New boat | 34 00 |
| Chantry Island | Whitewashing tower and dwelling | 4 | 5 00 | Boat rollers | 5 00 |
| Colchester Reef | Repairs and labour to lighthouse | 48 | 3 50 | Repairs to boat | 15 85 |
| Corbay Point | | | · • • • | New boat | 35 00 |
| Cabot Head | Building new fence around the light- | 34 | 1 30 | | |
| Dorval | | | | New boat | 16 00 |
| Fort William | Breakwater to protect lighthouse | 22 | 5 00 | | |
| Great Duck Island | Breakwater for protection of boats | 131 | 80 | New boat | 150 00 |
| Hope Island | Repairs to tower | 17 | 7 31 | " | 32 00 |
| Cove Island | Whitewashing tower and dwelling | 20 | 50 | | |
| | Shingling and flooring kitchen | 39 | 25 | | |
| Nottawasaga Island | Whitewashing tower and dwelling | 40 | 00 | | |
| " " | New window sashes for dwelling | 7 | 50 | | |
| Peninsula Harbour | Lumber for repairing board walks | 15 | 2 50 | | |
| Pelee Island | Painting top of tower | | 5 00 | Repairs to boat. | |
| Point aux Baril | Repairs to rangelight | 33 | 3 20 | | |
| Point aux Pins | Repairing a dwelling house | 17 | 7 50 | | |
| Point Clark | Repairing board walk | 18 | 5 30 | | |
| | Repairs to fog horn | 130 | 10 | | |
| | Repairs to lighthouse, dwelling house and barn | 80 | 24 | | |
| Port Arthur | | | • • • • · | New boat | 30 00 |
| Port Colborne | Repairs to kitchen of dwelling | 2: | 2 40 | | |
| Port Credit | Repairs to lighthouse foundation | . 5 | 5 8 | | |
| Presqu'Isle Main Light. | Painting and repairs to kitchen | 30 | 3 75 | | |
| Red Rock | Painting | 2 | 1 00 | | |
| H | General repairs to lighthouse tower and dwelling | 11 | 1 93 | | |
| Channel Island | Hardware | 11 | 7 44 | | |
| Aylmer | Repairs and labour | | 6 60 | | |
| Battle Island | Repairs to machinery of revolving light | 3 | 7 71 | | |

BUOYS AND BEACONS.

New buoys in approach to Kingston.

Three 35-foot spar buoys, were on June 15, 1899, placed by the undersigned in the western approach to Kingston Harbour, foot of Lake Ontario, to mark the deep water channel north of Snake Island. These buoys are located as follows:—

- (1.) A black buoy moored in 30 feet water off the north extremity of the shoal surrounding Snake Island.
- (2.) A buoy painted in red and black horizontal bands, in 30 feet water, off the west end of the small middle ground between Snake Island shoal and Seven-acre shoal.
 - (3.) A red buoy in 26 feet of water off the east end of Seven-acre shoal.

Beacons and buoys in Stokes Bay.

The hydrographic survey of Lake Huron having extended to Stokes Bay during the past season, advantage was taken of the presence of the surveying ship to have Mr. Stewart mark the entrance by beacons and buoys. Two beacons and six spar buoys were accordingly placed in position. The latter will hereafter he maintained by the lightkeeper at Lyal Island.

- 1. The front beacon stands upon the north-west extreme of a group of small islands lying half a mile north of the north-east point of Lyal island. It bears N. 56° E., and is distant 9,700 feet from Lyal Island lighthouse. It consists of a white slatwork triangle 16 feet high, surmounted by a white slatwork diamond, which makes the beacon 25 feet high.
- 2. The back beacon stands upon the east main shore of the bay. It bears N. 75° E. and is distant 4,050 feet from the front beacon. It consists of a white slatwork square 20 feet high, surmounted by a smaller but similar square, which makes a beacon 35 feet high. A vertical black band, three feet wide, covers the middle of the beacon for its entire height.

These two beacons in one, N. 75° E. leads clear in from the lake to within 1,800 feet of the front one, or 1½ miles inside the lighthouse, with a least depth of 22 feet water.

The buoys are placed as follow:—

- 1. A black spar buoy is moored in 22 feet water N. 81° W., 10,650 feet from the lighthouse, or $3\frac{1}{8}$ miles from the front beacon. It lies S. 48° W., 550 feet from a spot with 17 feet water on it.
- 2. A black spar buoy is moored in 17 feet water off the south side of the bank extending S. 40° W., about 2,400 feet from the dry (Mad) reef in the middle of the entrance. The buoy bears N. 43° W., and is distant 3,700 feet from the lighthouse, and 1\frac{3}{4} miles from the front beacon.
- 3. A red spar buoy is moored in 21 feet water 200 feet west of a small shoal with 14 feet least water upon it, and 1,400 feet S. S. E. of the range. It also bears S. 87° W., 8,600 feet from the lighthouse, and almost 3 miles from the front beacon. This buoy marks the outer dangerous shoal off Lyal island.

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- 4. A red spar buoy is moored in 21 feet water N. 18° W. 300 feet from a small rock with only $9\frac{1}{2}$ feet water upon it. It bears N. 82° W., and is distant 6,500 feet from the lighthouse, and $2\frac{1}{2}$ miles from the front beacon. It is 570 feet S. S. E. of the range.
- 5. A red spar buoy is moored in 18 feet water N. 40° W. 125 feet from a shoal spot with $9\frac{1}{2}$ feet water upon it. It bears N. 68° W., and is distant 4,250 feet from the lighthouse and $2\frac{1}{10}$ miles from the front beacon. It lies 500 feet S.S.E. of the range.
- 6. A red spar buoy is moored in 17 feet water to mark the north edge of a bank from Lyal Island. It bears N. 6° E., and is distant 3,150 feet from the the lighthouse, and 1\frac{1}{3} miles from the front beacon.

Platform buoy south of Duck Islands.

A platform buoy surmounted by a pyramidal slatwork painted white, and a white flag was moored last spring in 5 fathoms water off the south end of Jennie Graham shoal, extending southerly from Duck Islands, Lake Huron.

The buoy was placed by Mr. Stewart and will be attended to in future by the lightkeeper.

Bears Rump buoy.—A platform buoy, surmounted by a pyramidal slat work, painted black, and a white flag 20 feet high was moored by Mr. W. J. Stewart, in June last, in $4\frac{1}{3}$ fathoms water off the south end of the shoal running south from Bears Rump Island, in the Georgian Bay. This buoy will be hereafter maintained by the contractor in charge of other Georgian Bay buoys.

Aid to navigation in entrance to Midland.

Two temporary whitewashed day beacons were established on the opening of navigation in 1899, to lead south of the shoals off the south end of Giant's Tomb Island and north of the shoal off Sawlog Point, entrance to Matchedash Bay, Georgian Bay.

The front beacon stands upon the north end of Brebœuf Island on a bare granite rock, elevated 8 feet above the water. It consists of a pole 15 feet high, braced, with horizontal studwork on the pole and braces.

The back beacon stands upon the west shore of Beausoleil Island, and is distant 2,400 feet S. 86° E. from the front one. The ground at the site is 3 feet above the water, and the beacon, similar in construction to the front one, is 24 feet high.

Two similar beacons have been established on the west shore of Matchedash Bay, between Midland point and Sucker Creek Point, to show the best channel in the reach between Pinery Point and Beausoleil Island.

The front beacon stands on the beach 6 cables, S. 54° E. from Sucker Preek Coint. The ground is 2 feet above the water and the beacon is 12 feet high.

The back beacon stands on the beach of the point 3,000 feet S. 17° E. from the front one. It is on ground 2 feet above the water and is 15 feet high.

In entering Matchedash Cay Brebœuf Island beacon should be brought in one with Beausoleil Island beacon outside of Bennet Bank bearing S. 86° E. The alignment leads 750 feet south of the black spar buoy off Giant's Tomb lighthouse and 500 feet north of

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the red spar buoy off Sawlog Point. As soon as the inner front beacon shows clear of Adams point it is safe to change the course gradually until the two inner beacons are brought in one, bearing S. 17° E. This alignment should be kept until the first beacon is one-half mile distant, when the beacon should be left on the starboard hand. The shore here is bold, and can be kept close aboard until Midland Point is rounded.

These beacons were placed for the purpose of marking a channel for entering Midland, avoiding all dangers. It is intended to replace them by lights in range towers. The lighthouse now on Gin Island will be moved on to Brebœuf Island to form the front light of the outer range. Tenders have been invited for the necessary new buildings and removal.

Four of the most important buoys in the entrance to the harbour, viz., those on Lottie Wolf rock, Giants Tomb reef, Sawlog point and the Middle ground in the harbour were replaced last season by first class ballasted spar buoys standing up 12 to 15 feet out of the water. This work was done by Mr. John White, harbour master, at a cost of \$228.

Parry Sound buoyage.

On the opening of navigation in the spring of 1899, 17 spar buoys were placed in the main channel entering the harbour from Georgian Bay, and in consequence of the abandonment of the Gordon Rock channel 7 spar buoys previously maintained were not replaced in position. The 3 gas buoys established in the fall of 1898 were kept in successful operation throughout the season of 1899. There was great difficulty in getting them in at the end of the season, and it will be impossible in future years to attempt to leave them out until the close of navigation. It is suggested that November 15 be fixed as the latest date for leaving them out, especially the Seguin Bank buoy.

NEW BRUNSWICK LIGHTHOUSE DIVISION.

The New Brunswick division comprises all the lighthouses and other aids to navigation within the boundaries of the province, both on the Bay of Fundy and on the Gulf of St. Lawrence coast. The large buoys maintained by the Government on the Nova Scotia coast of the Bay of Fundy are attended to by the steamer *Lansdowne*, under the direction of the New Brunswick agent, but are otherwise under the control of the Nova Scotia agent.

This division is under the charge of Mr. F. J. Harding, agent of the department at St. John, N. B.

The lights, &c., were inspected by Mr. John Kelly, inspector of lights.

There are in this agency 121 lighthouses, 2 light-ships and 12 steam fog-alarms.

The number of keepers and engineers in connection with the lighthouses and fogalarms, is as follows: 87 light-keepers, 7 light-keepers and engineers of fog-alarms, 12 engineers and 6 assistant engineers—112 in all.

The method of supplying the lights varied in accordance with locations. The supplies for the St. John River, Grand Lake and Washademoak Lake lights were shipped by regular local steamers and a separate bill of lading furnished for each station.

The supplies for the Miramichi River lights were sent by regular lines of steamers or schooners trading to the different points.

The Bay of Fundy lights were supplied by the steamer *Lansdowne*, and those in the Baie des Chaleurs district were supplied by rail. In all cases the supplies have been delivered in the most convevient and economical way.

NEW AIDS TO NAVIGATION.

Lightship in Shediac Harbour.—A lightship was, on October 1, 1899, moored in 19 feet water, 2 cables N.N.E. of Zephyr rock, off Point du Chene, Shediac Harbour. The vessel was hired from the Charlottetown Steam Navigation Co., Ltd., at a rental of \$5 per day. This is a schooner with 2 masts, and is painted blue with black bulwarks. Between the masts two white lights are exhibited with a perpendicular distance of 4 feet between them. The height of the lower light above the water is 21 feet and the lights should be visible 8 miles.

In foggy weather a hand horn answers signals from vessels.

North Tracadie front range light.—The front range light at North Tracadie Gully, which was carried away on November 11, 1897, was replaced and put in operation on September 29, 1899.

The light consists of a lantern on a mast, painted red, from which a fixed white light is shown.

The mast is 161 feet S.E. from the back tower, and the light is 20 feet above high water.

IMPROVEMENTS AND REPAIRS AT EXISTING STATIONS.

Grand Manan.—The old boiler at this fog alarm station was worn out, consequently a large boiler removed from Lepreau fog alarm station was utilized, being removed and set up by the crew of the Lansdowne. This work with the necessary connections, repairs made to boiler and machinery during the year, and a new smokestack, cost \$325.84.

The water supply again gave out and water had to be carted for the boilers at a cost of \$172.50.

The ell of the dwelling was reshingled on two sides and the roof repaired.

Extensive repairs are required at this station to improve the draught, secure a sufficient water supply, and improve the machinery. The possibility of replacing the steam engine by an oil engine is being considered.

Green Head.—The illuminating apparatus was improved by substituting a dioptric lens of the 7th order for the pressed lens formerly in use.

Head Harbour.—The fog alarm machinery was overhauled and repaired by Mr. Joseph Thompson, at a cost of \$373.24.

A new pump was supplied and the old one repaired at a cost of \$176.45.

Some plank were renewed in the wharf at the lighthouse.

Indian Point.—To suit a change in the channel into Shippegan Harbour, it was found necessary to move the range lights maintained on Indian Point, stronger lanterns have also been provided.

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The front mast has been moved 1,514 feet east from its previous position and now stands on the sand bank, east of the point, 30 feet back, and 2 feet above, high water mark.

The light is a fixed red light, elevated 28 feet above high water mark, and should be visible 5 miles from all points of approach by water. The illuminating apparatus is dioptric of the seventh order.

The mast is 27 feet high, and, with shed at its base, is painted red.

The back mast has been moved to a new position 134 feet N. 10° W. from the front one. It is 36 feet high, and with the shed at its base, is painted white.

The light is a fixed white seventh order dioptric light, elevated 36 feet above high water mark, and should be visible 10 miles.

The buildings were moved under Mr. Kelly's superintendence, at a cost of \$75. The two new lanterns cost \$178.24.

Jemseg.—The illuminating apparatus has been improved by substituting a dioptric lens for the catoptric lamp formerly in use. The light remains fixed red as hitherto.

The cost of the new lantern, procured from Messrs. Chance Bros. and Company of Birmingham, was \$102.56.

Little Belledune.—The mast with a shed at the base, from which a light is shown on Little Belledune Point, Chaleur Bay, was moved 85 feet south from its original position, and now stands 171 feet inside the line of high water mark. This change was made requisite by the gradual wearing away of the bank.

At the same time the mast was increased in height, and is now 39 feet long. The lantern was also changed, an anchor light, with a lens of the 7th order, being substituted for the smaller lantern with pressed glass lens heretofore used.

The light is fixed white, as heretofore, elevated 52 feet above high water mark, and should be visible 12 miles from all points of approach by water.

The change was made under the supervision of the Inspector of Lights, and cost \$76.84.

Miramichi Bay Lightship.—The old vessel Jennie having been condemned by the inspector of hulls, was sold by auction for \$16. The American schooner Frederick Gerring which was confiscated for illegal fishing in May, 1896, was put up at auction in April last at an upset price of \$800, and knocked down to the department. Repairs were made by Mr. W. Traer, at a cost of \$200, and the new vessel was placed upon the station on the opening of navigation in 1899.

Pointe du Chêne Wharf.—The back range light mast and hut was moved forward 60 feet in the line of range by the officers of the Intercolonial Railway to accommodate their service. A new lens was provided for one of the lanterns.

Point Lepreau.—The new lighthouse referred to in last year's report to replace that destroyed by fire on January 30, 1898, has been completed, and was put in operation on October 1, 1899.

The lighthouse stands on the low point, 327 feet from its extremity and 250 feet N. by E. $\frac{3}{4}$ E. from the fog alarm building. The tower is an octagonal wooden building, with sloping sides, surmounted by a polygonal iron lantern. It is 54 feet high from the

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sills to the vane on the lantern, and is painted in red and white horizontal bands, with the lantern red.

The light is a revolving white light, the flashes attaining their greatest brilliancy every 30 seconds. It is elevated 80 feet above high water mark, and should be visible 14 miles from all points of approach by water. The illuminating apparatus was made in the shops of the department at Ottawa. The temporary light, maintained since the destruction of the old light, has been discontinued.

The fog alarm machinery is contained in an oblong, wooden building painted gray, with a brown roof. The horn gives blasts of 5 seconds' duration, with intervals of 25 seconds between the blasts.

The tower was erected under contract by Mr. Francis Cassidy, his price being \$1,325. I regret to report that the quality of his work was so inferior that it was necessary to insist on parts of it being done twice, under the inspection of Mr. B. H Fraser, assistant engineer.

The following repairs have been made to the fog alarm machinery:—New suction pipes to tanks and cisterns placed, and new feed connections; steam heating pipes and new blowers fitted; new 2-inch steam regulator for the trumpet furnished, and new $2\frac{1}{2}$ inch relief pipes from safety valves to cistern.

A new fence has been built around the dwelling lot and ground levelled and drained. The old whistle house, used by the former engineer as a barn, and two old sheds, have been removed and a fence built at the edge of the bank.

All the buildings at the station were put in good repair under Mr. Fraser's supervision, part of the work being done by contract by Messrs. Knight, of Musquash. The amount spent last year on repairs was \$561.83.

Sand Point.—The illuminating apparatus has been improved by substituting a dioptric lens of the 7th order for the pressed lens formerly in use.

Richibucto.—The inspector of lights having reported that owing to alterations in the channel the range lights at the entrance to Richibucto Harbour do not now safely lead over the bar; that the channel, locally known as Albion Channel, is making southward very fast; that a long bar is also making out from the northward, which causes a sharp turn in the channel; and that, in consequence of the tortuous nature of the present channel, it is impossible to so place the range lights as to give a good lead in, mariners were warned to that effect.

Vessels intending to enter the harbour should keep the lights in range until they reach the outside bar buoy; they should then open the back light to the southward of the front light until a picket beacon is reached. They should then turn the iron can buoy and be guided by the buoys into safe anchorage.

The following less important repairs have been made at light stations in this division:—

| Station. | Nature. | Cost | ٥ . |
|------------------|-------------------------------------------|------|------------|
| Andersons Hollow | Partly reshingled | | |
| Beaconlight | Repairs to pier\$ | 210 | 92 |
| • | New boat, old boat and fog-bell apparatus | | |
| | repaired | | |

| Station. | Nature. | Cost | ; . |
|---------------------|----------------------------------------------|------|------------|
| Bliss Island | Small repairs | 40 | 80 |
| Belyeas Point | . New stone foundation | 75 | 00 |
| | . Fog alarm, boiler and machinery repaired. | 53 | 64 |
| | . Repairs to, damage by freshet | | |
| | . New lens | | |
| | . New lamp, pump repaired | 34 | 05 |
| | Partly reshingled | | |
| | .Two reflectors replated | 40 | 00 |
| | Oil store moved, shed reshingled | | - |
| Cape Spencer | . Road repaired | 25 | 00 |
| | . Small repairs | 15 | 93 |
| | New boat | 50 | 00 |
| Fox Island, upper | . New boat | 50 | 00 |
| · | One room in dwelling refloored | | |
| | Small repairs | 4 | 00 • |
| | . Repairs to fog alarm boiler and machinery, | | |
| .,,,,, | and new boiler placed | 231 | 20 |
| Goose Lake | . Fence repaired | | |
| | Foundation strengthened | 7 | 50 |
| | Reflector resilvered | | |
| | . Riprap placed | 4 | 00 |
| | Cellar cemented | | |
| | Road repaired | 10 | 00 |
| Machias Seal Island | Boiler patched and ninety-nine new tubes | | |
| | placed | 231 | 25 |
| Miscou | . New storm doors, new floor laid and small | | |
| | repairs | | |
| | . Boat repaired | 12 | 00 |
| Musquash Island | . New breakwater | 42 | 50 |
| Negro Point | . Paid keeper for loss of boat | 20 | 00 |
| Neguac | . New floors laid | | |
| Partridge Island | . Fog alarm coal shed reroofed | | |
| | Boiler and machinery repaired | 232 | 33 |
| | New pump furnished | | |
| | New boat | 51 | 00 |
| Pea Point | Flag-pole erected | | |
| Passamaquoddy Bay | . Foundation strengthened | | |
| | Boat repaired | 7 | 34 |
| Quaco | . New boathouse erected | | |
| | Landing repaired | 19 | 92 |
| | Fog-alarm machinery repaired | 108 | 05 |
| | 170 feet water pipe laid | | |
| | Cement floor in engine-room | | |
| | . Lantern reglazed | | |
| Reeds Point | Reglazing | 9 | 20 |
| | . Boathouse repaired | 25 | 00 |
| Swallowtail | . Derrick repaired | 7 | 50 |

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| Station. | Nature. | (| Cost | |
|-------------|------------------------------|----|------|----|
| St. Andrews | Two reflectors resilvered | \$ | 20 | 00 |
| | Chimney repaired | | | |
| South Wolf | New derrick | | | |
| Shippigan | New door | | | |
| | Road repaired | | 50 | 00 |
| | Brush protection work placed | | 49 | 50 |

BUOY SERVICE.

The buoy service in most of the ports of the New Brunswick agency was performed under contract, under the supervision of the harbour masters.

The coast buoys of the New Brunswick district and part of Nova Scotia in the Bay of Fundy were attended to by the steamer Lansdowne.

Beaver Harbour whistling buoy.—A Courtenay whistling buoy, was, on February 15, 1899, moored in 22 fathoms water one and one-half miles South from Beaver Harbour lighthouse, Charlotte county, as a fairway buoy.

The buoy is painted in red and white vertical stripes, with 'Beaver harbour' in black letters on the side, and is surmounted by a 10 inch whistle sounded by the action of the sea.

It was removed, and replaced again by the Lansdowne on May 12.

Cape Tormentine buoys.—Two buoys, maintained since 1895, to protect the approach to the government wharf at Cape Tormentine, have not previously been described. They are a steel bell buoy, painted black, moored in 6 fathoms water, \(\frac{3}{4} \) mile east of the outer dry rock of Tormentine reefs, and a conical steel buoy, painted red, moored in 7 feet water off the end of the sand bar running south easterly from Jourimain islands.

Shippigan buoys.—The following changes have been made in the buoyage of Shippigan harbour:—

- a. The red spar buoy marking the outer end of the channel over the bar at the south entrance to Shippigan Gully, has been replaced by a red steel can buoy moored in 2 fathoms water.
- b. The red spar buoy inside the bar has been replaced by a red barrel buoy moored in 2 fathoms water.
- c. The two red spar buoys inside the south entrance, close inside of Alexander Point, have been replaced by red barrel buoys.
- d. The black barrel buoy marking the south-east limit of good water in Shippigan Sound, off the point between Canoe Point and Paint Point, has been replaced by a black steele can buoy moored in $3\frac{1}{2}$ fathoms water.
- e. The small red barrel buoy off Marcella Point has been replaced by a large red barrel buoy.
 - f. The black buoy formerly off Grasse Point is no longer maintained.

| The following work was d | lone on important buoys in this agency: | Onia, | 7. 1 |
|----------------------------|------------------------------------------|------------|-------------|
| Name. | Nature of work. | C | ost, |
| Partridge Island bell boat | Painted by J. H. Pullen | \$144 | 00 |
| U | Kept pumped out, J. Abbott | _ | 80 |
| Black Point whistling | Placed November 26, 1898 | | |
| 0 | Placed May 25, 1899 | | |
| | Repairs by Jas. O'Donnell | 3 6 | 06 |
| | Chain supplied | 195 | 89 |
| Blonde Rock whistling | Drifted into Seal Id., January 14, 1899 | | |
| ŭ | Replaced January 19, 1899 | | |
| | Replaced February 7, 1899 | | |
| | Disappeared March 9, 1899 | | |
| | New buoy placed March 15, 1899 | | |
| | Drifted buoy towed into Shelburne March | | |
| | 11, 1899 | | |
| | Removed and replaced September 11, 1899. | | |
| | Repairs | 22 | 33 |
| | Advertising | 14 | 20 |
| | Chain | 203 | 41 |
| Cat Rock bell | Upset February 4, 1899 | | |
| | Changed February 6, 1899 | | |
| | Found broken and changed May 18,1899 | | |
| Lurcher whistling | Lifted and replaced February 3, 1899 | | |
| | Cost of maintenance for year | 203 | 42 |
| North west Ledge whistling | Adrift January 16 | | |
| | Salvage paid ss. Westport | 100 | 00 |
| | New buoy placed January 20 | | |
| | Adrift February 11 | | |
| | Salvage paid Alfred E. Pyne | 50 | 00 |
| | New buoy placed February 21 | | |
| | Repairs to drifted buoy | 120 | 78 |
| | Adrift March 31 | | |
| | New buoy placed by Aberdeen April 11 | | |
| | Advertising | 12 | 90 |
| Old Man | Cleaned June 5 | | |
| | Tested June 11 | | |
| Old Woman | Replaced January 16 | | |
| | Changed June 5 | | |
| | Tested June 11 | | |
| Peases Ledge | Upset January 18, righted January 20 | | |
| | Adrift Februay 13, replaced February 26. | | |
| | Adrift May 15, towed into Harry's Island | | |
| Lepreau whistling | Lifted and replaced January 13 | | |
| - ~ | Lifted and replaced May 9 | | |
| | Repairs by Jas. O'Donnell | 65 | 42 |
| | • | | |

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| Name. | Nature of work. | Cost. |
|--------------------------|--------------------------------------------|--------|
| Quaco buoys | . Placed for season May 4, 1899 | |
| • | Removed for winter December 20, 1899 | |
| | Can to be replaced by conical spring, 1900 | |
| | Repairs | 162 93 |
| Split Rock whistling | . Replaced January 12, 1899 | |
| | Old buoy repaired by Jas. O'Donnell | 51 79 |
| | Replaced May 9 | |
| | Replaced May 23 | |
| | Movings and maintenance | 67 04 |
| Southern Wolf whistling | . Adrift January 9, towed into Trout cove | |
| _ | Salvage paid | 100 00 |
| | Placed January 23 | |
| | Replaced May 12 | |
| | Repairs and movings | 354 98 |
| Trinity Ledge bell | . Lifted and replaced February 3, 1899 | |
| | Adrift February 21 | |
| | Salvage paid the Westport | 100 00 |
| | Replaced March 2 | |
| | Adrift April 1, towed into Yarmouth | |
| | Replaced by Aberdeen | |
| Yarmouth Fairway bell. | . Upset January 18, 1899, righted 20th | |
| | Replaced February 3 | |
| | Lifted May 16 and changed | |
| Yarmouth S.W. whistling | g.Adrift December 19, 1898 | |
| | Replaced December 21 | |
| | Lifted and replaced June 3 | |
| Yarmouth N. W. whistling | g.Lifted and replaced | |
| | Lifted and replaced May 18, 1899 | |

QUEBEC LIGHTHOUSE DIVISION.

The Quebec division extends from Montreal to the end of the Strait of Belle-Isle, covering a coast and river service of over 1,200 miles, comprising all the lighthouses in the Richelieu River and Lake Memphremagog, as also the lighthouses, light-ships, gas buoys, beacons and fog-alarms in the River St. Lawrence, Saguenay River, Baie des Chaleurs, Gulf of St. Lawrence, Strait of Belle-Isle, west coast of Newfoundland and Labrador. This division is under the control of Mr. J. U. Gregory, agent of the Department of Marine and Fisheries at Quebec.

The agent is also shipping master; attends to the requirements of the British Board of Trade in connection with shipwrecks and distressed seamen, casualties at sea, is receiver of wrecks and supervisor of wharfs, a fishery officer for the province of Quebec and is superintendent of signal service.

The agent's staff at Quebec consists of Mr. L. A. Blanchet, chief clerk and accountant, also deputy shipping master; Mr. Geo. D. O'Farrell, lighthouse inspector, Mr. Alphonse Hamel, clerk, and Mr. L. L. Dubé, storekeeper and wharfinger.

The workshops are under Mr. Ernest Roy, master carpenter, and Mr. N. Dufour, master ship-smith. The gas works are under Mr. G. Bélanger.

The steamers at the disposal of the agency during the past year were the *Druid*, which attended to gas and other buoys above and below Quebec, as well as beacon service below Quebec, and the *Aberdeen*, which supplied the lights in the River and Gulf of St. Lawrence, Strait of Belle-Isle, An'icosti, Magdalen Islands and Baie des Chaleurs. The lights above Quebec were supplied by passenger steamers or by rail, as proved most economical or convenient.

There are in this division 168 lights, at 121 stations, 7 light-ships, 3 of which are supplied with powerful steam fog-whistles, 8 explosive bomb signal stations, in connection with lights, 4 steam fog-whistles and 8 fog-horns, 11 gas buoys, 4 of which are supplied with bells, 140 buoys and 59 beacons.

NEW AIDS TO NAVIGATION AND IMPROVEMENTS IN EXISTING AIDS.

Fog Siren at Belle-Isle.

The installation of a fog siren at Belle-Isle light station, referred to in last year's report, was completed by Mr. Noble this year and put in operation, for the first time on September 9, 1899.

The total expenditure in connection with the establishment of this fog alarm, spread over three years, has been \$20,112.64. In this sum is included the cost of the machinery procured from England, viz., \$9,959.07.

The fog-alarm consists of a first order double siren operated by compressed air, giving alternately low and high notes, each of $2\frac{1}{2}$ seconds duration, separated by a silent interval of $2\frac{1}{2}$ seconds every 2 minutes.

The sirens are established in a small white house situated on the hillside at the south-east extremity of the island, midway between the upper and lower lights, at an elevation of 250 feet above high water mark.

The sirens are operated by air compressed in a power house at the landing place 4,000 feet distant from the point where the sirens are erected. The power is obtained from a water wheel driven by water led from lakes on the hill tops and an oil engine is provided for use in case of any failure of the water power.

The work done includes the following:-

The construction of a dam for the protection of the pipe valves and the construction of sluices and waste drains.

The construction of a large dam to increase the area and depth of the lake furnishing water so as to insure a sufficient water supply.

The providing and laying of 600 feet of cast iron 10-inch water pipe and the construction of an embankment to carry and cover the same.

The erection of a power house on the low ground at the landing on the island and the installation in it of machinery including a 36-inch Dodd sigmoidal jet wheel, a 16-B. H. P. Hornsby-Ackroyd oil engine and double set of air compressing pumps and a compressed air receiver.

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The laying of 4,000 feet of 4-inch steel pipe to convey the air from the engine house to the siren house, including the preparation of a bed for and covering of the same.

The erection of a siren house and the installation in it of two compressed air reservoirs and two sirens complete with the erection of trumpets for directing the sound.

The construction of a telephone line with double wires on wooden posts, and the installation of telephones connecting the power house, siren house and lighthouse.

The road leading from the landing to the lighthouse was raised in level two feet where it passes the lake which supplies water to the machinery. This was required in consequence of the raise of level occasioned by damming the lake.

Barre ù Boulard Range Lights.

To mark the axis of the dredged channel through Barre a Boulard, a lighthouse was built in the winter of 1898–99 on Richelieu islet reef, 1,140 feet N. 23½° E. from Richelieu Islet lighthouse.

It is an octagonal, wooden, pyramidal tower 37 feet high, surmounted by a $7\frac{1}{2}$ feet iron lantern, standing upon a pier built of $\frac{3}{8}$ -inch steel plate casing, 24 feet in diameter at the base, 24 feet in diameter at top and 20 feet high, with a projecting nose of steel plate up stream forming an ice breaker, the whole filled with stone and concrete. The pier is painted red brown, and the tower is painted white, with the iron lantern and the lantern base red. The top of the pier is 10 feet above high water mark. The building of the foundation was a difficult piece of work, as the tides covered the site from 5 to 6 feet deep at high water springs. This made the work of preparing the foundation slow and difficult and added to its cost.

The light is fixed red, elevated 40 feet above high water mark, and should be visible 7 miles from all points of approach by water. The illuminating apparatus is dioptric, of the seventh order.

To range with this lighthouse in the axis of the channel a small light building, showing a face 7 feet wide by 10 feet high painted white, with a black stripe $3\frac{1}{2}$ feet wide down the middle of the side facing the channel, was erected. From a window in the face of this building is shown a fixed red catoptric light, elevated 118 feet above high water mark, which should be visible 11 miles in, and over a small arc on each side of the line of range. This building is located 10,400 feet N. 70° E. from the lighthouse on the reef.

It stands on the hill side at Platon Point and is rendered more conspicuous by having erected over it the beacon which was formerly the front day beacon on the Platon. This was moved 50 feet southwardly from its old position. The back day beacon has been taken down. The work was done under the superintendence of Mr. W. H. Noble, foreman of works, at a total cost of \$5,057.25, and the new lights were put in operation on April 29, 1899.

Upper Traverse Pier.

On October 1, 1899, the lightship heretofore maintained at the upper end of the Traverse of St. Roch, River St. Lawrence below Quebec, was permanently removed from her station, and two lights similar to those previously shown from her were exhibited from a cribwork pier sunk at the edge of the channel.

The pier is in 4 fathoms low water, and is 95 feet long by 50 feet wide at the base. It is 58 feet high, standing 12 feet above high water, and at the top is 64 feet long by 44 feet wide. The ends are sloping and pointed, and the pier is strongly sheathed with iron.

The lights on the pier were maintained till the close of navigation, a temporary shed having been erected for the keeper. A permanent building with a distinctive light will be established next season. The total cost of the pier to date is \$43,869.10.

Flower Island Lighthouse.—A new lighthouse marking the south side of the western entrance to the Strait of Belleisle was erected during the past summer, and put in operation on November 7. It stands on the point of Flower Island nearest to the channel, on a site about 6 feet above high water mark. The light building is a rectangular wooden building, with a square lighthouse tower rising from the north-east corner of the dwelling house. It is 50 feet high, from the base to the vane on the lantern, and is painted white; the polygonal iron lantern is painted red; the roof of the dwelling is left unpainted.

The light is a revolving bright or white light, the flashes attaining their greatest brilliancy every 30 seconds. It is elevated 51 feet above high water mark, and should be visible, in clear weather, 12 miles from all points of approach by water. The illuminating apparatus is catoptric.

The work was done by the department, under the superintendence of Mr. Kimball Coffin, at a total cost of \$8,801.

Ste. Croix Bar Range Lights.—Range lights to mark the centre of the dredged cut through the Ste. Croix bar in the ship channel between Montreal and Quebec were established during the past season. Temporary lights were maintained during the erection of the towers, which were put in operation on October 4.

Both light buildings are square wooden towers, with sloping sides, surmounted by square wooden lanterns, and are painted white.

The front tower is 23 feet high from its base to the top of the ventilator, and shows a fixed white light elevated 186 feet above high water in and over a small arc on each side of the axis of the dredged cut through Ste. Croix bar. It also shows down stream on its north-eastern face. The illuminating apparatus is catoptic.

The back tower stands 1,400 feet S. E. ½ E. from the front tower, is 54 feet in height from its base to top of the ventilator, and is painted white. From an elevation of 238 feet above low water mark it shows a fixed white light in the line of range, the illuminating apparatus being catoptric.

When the dredging of the bar is completed to the full width of 500 feet the range will be shifted to the centre of the finished cut.

These towers were erected by the department, under the supervision of Mr. C. Auger, at a cost of \$1,667.62.

LIGHT DESTROYED BY FIRE.

The back range lighthouse at Pointe aux Trembles en haut, a fine tower 56 feet high, built by the old Montreal Trinity House, was destroyed by fire on Oct. 14, 1899. A temporary mast light was immediately established. It is intended to replace this by a wooden tower on iron skeleton base,

PRINCIPAL REPAIRS AT EXISTING STATIONS.

Cape Bauld.—A small pony pump was supplied for the new boiler, and a new flag-staff, made in the departmental workshops, was erected. All the buildings at this station were put in first class order. Total expenditure, \$482.90.

Cape Magdalen.—The repairs authorized last season were completed this year, and the dwelling was clapboarded and roof and foundation repaired, at a cost of \$149.75. The fog alarm boiler was covered with asbestos, cost \$6, and a new boat purchased for \$35.

Cape Norman.—The large wooden tank was repaired, caulked and tarred; cost, \$6. New lumber was supplied for sheathing fog alarm and flooring kitchen, the work being done by the keeper. Cost of lumber, \$31.55. New coal shed erected, cost \$30.

Cape Rosier.—On November 1 last, the steam whistle at this station was put in operation, and the horn in future will be reserved in case of accident to the whistle. Deals for flooring cellar and new smokestack for fog alarm were furnished from stores.

The foundation of the tower was repaired, new windows placed in the fog alarm building, and a new valve fitted to the boiler, at a cost of \$57.15.

Fame Point.—The steps leading from the beach to the lighthouse were repaired by contract with G. Plourde for \$100.13. The kitchen was shingled at a cost of \$6.00.

Green Island.—The cotton powder cartridges at this station are now exploded at 15 minute intervals instead of every 20 minutes as formerly. On a vessel's signal being heard an additional shot will be immediately fired and the firing will be continued at 5 minute intervals until the vessel has passed the station. The ventilators were repaired for \$27, a new fence erected for \$50, and a new boat was procured at a cost of \$60.

Lotbinière, Front.—The wharf under this light was repaired under contract with P. Bernard at a cost \$139.97.

Lotbinière, Back.—The lantern top was renewed at a cost of \$22. Fifteen trees which obstructed the light have been cut down.

Points de Monts.—The oil store at this station was clapboarded and new sills and flooring put in. A new floor was laid in the kitchen, the dwelling house windows repaired, and the attic sheathed inside. Total cost \$95.50.

MINOR REPAIRS.

| Station. | Nature. | | Co | st. |
|------------------------|-------------------------------------|----|-----------|-----------|
| Anticosti:—Heath Point | . Dwelling roof repaired | \$ | 10 | 00 |
| South Point | . New whistle valve | | 94 | 32 |
| | Wharf repaired | | 20 | 00 |
| West Point | . Groynes repaired | | 26 | 88 |
| Ash Island | . New boat | | 40 | 00 |
| Bellechasse | . New chimney cap | | 7 | 50 |
| Bersimis | .New boat | | 35 | 00 |
| Bicquette | .Stove repaired | | 4 | 00 |
| Bird Rocks | . Dwelling reshingled | | 18 | 00 |
| Cape Salmon | . Cistern and boat landing repaired | 2 | 61 | 11 |
| Cap aux Oies | .Gallery and gangway repaired | | 46 | 78 |
| 11-51 | | | | |

| | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
|------------------------------------------------------------|----------------------------------------|
| Station. Nature. Cape Charles Lantern glass renewed | Cost. |
| | 12 80 |
| Cape Despair New stove and forcepump, new tongues | |
| for hand horn. Fence and gallery | 07 00 |
| repaired | 27 00 |
| Cape Gaspé Lantern glass placed and firing jib repaired. | 5 00 |
| C. de la Madeleine Platform covered with galvanized iron | 15 00 |
| Cape Ray New flooring and inside sheathing | 61 10 |
| Crane Id Lantern roof repaired | 25 60 |
| Egg Island Oil store clapboarded | 29 50 |
| Etang du Nord Dwelling shingled, new doors aud windows. | 28 00 |
| Father Point Foundation cemented | 6 00 |
| ForteauSmall repairs | |
| Gaspé LightshipOil tank repaired | 2 00 |
| Grande Rivière Masonry repaired | 5 00 |
| Greenly IslandPump repaired and tank caulked | 89 29 |
| Grondines New door frame and foundation repaired. | 8 00 |
| Ile à la BagueNew mast | 5 00 |
| lle à la PierreLightning rod and steps repaired | $25 \ 00$ |
| lle aux PrunesShed repaired | 5 00 |
| Ile aux RaisinsLantern repaired. New stove. Road | |
| $improved \dots \dots \dots \dots$ | 32 50 |
| Ile Ste. Thérèse (Lower) Foundation strengthened, new boat | 36 00 |
| Ile Ste. Thérèse (Upper). New boat | 18 00 |
| Kamouraska Well repaired, furnace removed | 10 00 |
| LacolleNew sill | 2 50 |
| Lark Id Sail boat repaired | 4 50 |
| Lavaltrie New boat | 15 00 |
| Lightship No 2 do | 8 00 |
| Martin River Small shed built | 4 00 |
| Matane | 12 00 |
| Montmagny New oil store | 35 00 |
| Paspebiac New stove and small repairs | 12 00 |
| Percé New canvas on gallery | 6 00 |
| Pilgrims New boat and salvage | 47 00 |
| Pillars Boat landing repaired and lantern glazed | 28 31 |
| Pte. aux Citrouilles Bridge over gully | 5 00 |
| Pte. aux OrignauxSmall repairs | 6 00 |
| Pte. du LacNew stove supplied. New foundation and | |
| floor | 36 00 |
| Pte. St. Jean New oil store | 64 10 |
| Portneuf (Below) New signal flagstaff | |
| Port St. François Pier repaired | 5 25 |
| St. Antoine New mast | 12 00 |
| Ste. CroixSmall repairs | 11 00 |
| Seven IslandsSmall general repairs | 30 00 |
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BUOY AND BEACON SERVICE.

Gas Buoys.—The Quebec division has in operation 11 gas buoys, four of which are supplied with fog-bells operated by hammers put in motion by the action of the waves. Each of these buoys has the name of its respective station painted on its side.

There is one spare spherical gas buoy kept on the Queen's wharf, where are also situated the gas works, supply tanks, etc.

St. Thomas Bank Gas Buoy.—On May 23 last, a spherical gas buoy was placed on St. Thomas bank, River St. Lawrence below Quebec, instead of the can buoy hitherto maintained.

The buoy is painted black with "St. Thomas Bank" in white letters on the side.

An occulting light showing bright for 8 seconds with intervals of 7 seconds is exhibited from the buoy and should be visible 4 miles from all points of approach.

With a view to greater efficiency the following changes have been made in the gas buoys below Quebec:—

Crane Island flats:

From fixed pink, to occulting white.

Grosse Isle:

From fixed pink, to fixed white.

Madame Island:

From fixed white to occulting white.

With the above changes the use of pink lights as aids to navigation is discontinued. The total cost of this service for 1898-99 was \$2,675.29.

Wooden, Can and Spar Buoys and Beacons.—The buoys and beacons under the Quebec Agency comprise all those situated in the Richelieu, Saguenay and St. Lawrence rivers, Baie des Chaleurs, Gaspé Coast and Magdalen Islands harbours.

The total cost of this service, including contracts for wintering, repairing, replacing, taking up and renewing buoys and beacons for 1898-99 was \$4,039.54, or \$293.05 less than in the previous year.

The usual number of buoys and beacons were repaired, painted and renewed, and nine spar buoys for the latest service to outward bound vessels were built as usual and placed in the following stations, to replace larger buoys when taken up for the winter, viz.:—Beaujeu Bank, west end; Crane Island Flats, Crane Island Patch, Middle Ground, St. Roch, Channel Patch, Pilgrims Shoals, Barrett Ledge and St. Thomas Bank.

AIDS TO NAVIGATION IN THE SHIP CHANNEL.

Extensive additions and improvement have been made to the aids in the ship channel between Montreal and Quebec, during the past season as already mentioned in the first part of this report.

Between Quebec and Portneuf, two new can buoys and ten new spars were placed, of which latter five were afterwards replaced by can buoys. Two buoys previously maintained were moved to more suitable positions.

Between Portneuf and Montreal, sixteen new spar buoys were placed and four spar buoys and one cylinder buoy changed in position, all red can buoys were replaced by conical ones and black conical buoys by cans.

The ship channel was divided into four districts as follows:-

- 1. Quebec to Batiscan (Quebec district, lettered Q.)
- 2. Batiscan to Three Rivers (Champlain district, lettered C.)
- 3. Three Rivers to Sorel (Lake St. Peter district, lettered L.)
- 4. Sorel to Montreal (Montreal district, lettered M.)

All buoys were numbered according to international regulations and a complete list published.

A new buoy was placed at Three Rivers to mark the outer edge of a bar formed by silt carried down by the St. Maurice River.

Bécancour day Beacon.—A beacon was erected in September last at the west side of the mouth of the Bécancour River, which in line with the spire of Ste. Angèle church, shows the middle of the channel between Bécancour Point and Isle Bigot. Its position has since been changed in the same alignment and it now stands 14,100 feet N. 64° 15′ E. (mag.) from the church. It is diamond shaped, 50 feet high and is black with a white border.

Cap Santé Semaphore.—The semaphore at Cap Santé was operated by the department as usual. Considerable repairs were necessary and were carried out under the superintendence of the operator. The total cost of maintenance was \$408.36.

St. Jean Semaphore.—This semaphore is maintained by the department of Public Works. It was out of operation for a month in June and July owing to damage by storm.

SIGNAL SERVICE.

All the stations in the Strait of Belle Isle are now supplied with comp'ete sets of signal flags, international code books and lists of vessels, so that all the keepers may communicate with passing ships.

ANTICOSTI BEACONS DISCONTINUED.

The day beacons heretofore maintained on the coasts of the Island of Anticosti, in the Gulf of St. Lawrence, have become unnecessary, in consequence of the establishment of lighthouses, the maintenance of a telegraph line along the south shore and the gradual extension of settlement, and will therefore be left unpainted and allowed to fall into decay.

SHOAL LOCATED.

A shoal, the existence of which was reported to the department by Major E. L. Bond, marine underwriter, Montreal, nearly one mile from shore, northward from Ste. Félicité parish church, on the south shore of the St. Lawrence, county of Rimouski, has been located by Commander Wakenam, of the Dominion Government steamship La Canadienne.—Latitude, N. 48° 55′ 18″; longitude, W. 67° 20′ 52″.

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The shoal, which will be known as Roix shoal, is of rock, about 500 feet long, east and west, by about 400 feet wide. It rises abruptly from a muddy bottom. The least water found on it is 4 fathoms, the average being about 5 fathoms; the soundings drop suddenly into 9 fathoms all round.

Fishermen report that the sea seldom breaks on this shoal, although there is often a heavy curl on it. Commander Wakeham suggests that deep draught vessels should give this shore a berth of at least 2 miles.

NOVA SCOTIA LIGHTHOUSE DIVISION.

This division, in charge of Mr. J. Parsons, agent of the department in this province, comprises 188 lighthouses, exhibiting 199 lights, 1 light vessel, 15 steam fog-alarms, 25 hand fog-horn stations, 2 fog-bells, 19 automatic whistling buoys, 15 automatic bell buoys, 115 iron or steel buoys, about 780 spar and other small buoys, 9 stationary beacons, 16 life-saving stations, 3 humane establishments, 4 signal stations, 2 carrier pigeon stations and 1 steamship, the Newfield.

The stations have been inspected by Mr. C. A. Hutchins, superintendent of lights, the boilers and machinery at the fog-alarm stations by Mr. D. Stevens, inspector of Government steamboats, and the life saving stations by Capt. B. Douglas, R.N.R., naval assistant.

All the automatic buoys (bell and whistling) have been placed and cared for by the Newfield aided during part of the autumn of 1898 by the Dominion Government Steamer Lansdowne. About 50 of the spar buoys and 75 iron cans are placed and replaced directly by us; the others in the different harbours are cared for and kept in position by persons holding three year contracts obtained by public competition.

NEW LIGHTS.

Halifax Harbour.

Private lights have been established by Messrs. Furness, Withy & Co., at the head of their pier in the above harbour. They consist of two red lights 4 feet apart vertically, and will be regularly maintained.

Neal Harbour.

A lighthouse established on the outer edge of the head on the eastern side of the entrance to Neal harbour north-eastern coast of Cape Breton Island, was put in operation on September 1 last.

The lighthouse is an inclosed wooden building square in plan, with sloping sides, painted white, surmounted by an octagonal iron lantern painted red. It is 34 feet in height from its base to the ventilator on the lantern. The lighthouse stands on ground elevated 46 feet above high water mark, and is 65 feet back from the edge of the bank-

The light is fixed red, elevated 73 feet above high water, and visible 8 miles from all points of approach by water. The illuminating apparatus is dioptric of the seventh order.

The work was done by Mr. P. McFarlane, of Baddeck, under contract for \$725.

Negro Harbour Range.

Two range lights, established for the purpose of guiding vessels into Negro Harbour, on the south coast, were put in operation on September 2, 1899.

Both light buildings are square wooden towers, with sloping sides, surmounted by square wooden lanterns. They are painted white, and stand on the shingle beach about 6 feet above high water mark and about 30 feet back from the water's edge.

The front tower is 34 feet high from its base to the vane on the lantern, and shows a fixed white light elevated 34 feet above high water mark in, and over a small arc on each side of, the line of range. The illuminating apparatus is catoptric.

The back tower stands 850 feet north-west from the front tower and is 44 feet high. It shows a fixed white light from an elevation of 44 feet above high water mark in the line of range and also towards the western entrance to the harbour. The illuminating apparatus is dioptric of the seventh order.

The work was done by the department, under the superintendence of Mr. E. P. Greenwood, at a cost of \$1,786.65.

Port Medway.

A lighthouse established on the eastern end of the breakwater in Port Medway harbour, on the south coast, was put in operation on April 1, 1899.

The lighthouse is a square wooden tower, with sloping sides, surmounted by a square wooden lantern, the whole painted white, and is 33 feet high from its base to the vane on the lantern.

The light is fixed red, elevated 31 feet above high water mark and visible 6 miles. The illuminating apparatus is dioptric of the seventh order.

Sambro Harbour.

A lighthouse established on Bull point, on the south-west side of the entrance to Sambro harbour, on the southern coast, for the purpose of guiding small vessels to a safe anchorage in Sambro harbour, was put in operation December 1, 1899.

The lighthouse stands about 30 feet back from the water's edge on the extremity of the point, and is a square wooden tower with sloping sides, surmounted by a square wooden lantern, the whole painted white. It is 33 feet high from its base to the vane on the lantern.

The light is a fixed red light, elevated 38 feet above high water mark, and visible seven miles from all points of approach by water. The illuminating apparatus is dioptric of the seventh order.

The tower was built by the department under the supervision of foreman carpenter McLellan and cost \$676.04.

IMPROVEMENTS AND REPAIRS.

Cape d'Or Fog alarm — A new bell has been supplied for the whistle and the conical roof of the cistern has been reshingled. The road to the landing as well as the

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road down the mountain side have been repaired, and two bridges on the former have been repaired.

Cape Fourchu.—The fog alarm chimney at this station has been taken down and rebuilt in a position where it would not obstruct sound seawards. The work was done by Mr. T. C. Redding, under contract for \$168.

The storehouse roof has been resheathed with 2 inch spruce, and the lightroom in the tower has been relined.

Cape George.—Stone foundations were built under the oil store and a portion of the dwelling. On the east side of the building a new sill was placed and a portion of the framing was renewed. Part of this side was also sheathed and shingled and a new cornice was fitted. The south side was flushed and shingled and fitted with a new cornice. A tar roof was laid over the bedroom and the lantern roof and deck covering were renewed. The lantern base was rebuilt and flushed. The lightroom, two bed-rooms and the porch were lined with spruce and the kitchen and porch floors were relaid. A new door was fitted and all doors and windows cased. The work was done under supervision of foreman McLellan.

Cranberry Head.—The fog alarm boiler was patched and fitted with a new set of tubes and furnace bars. A new reed box and 6 reeds were supplied.

Crow Harbour.—The foundation was cemented and new stays fitted to the tower. The porch was repaired and new steps placed. Inside the cistern and plastering were repaired and new locks fitted to doors. The boat house was repaired, the slip renewed and a new boat furnished.

Egg Island.—A new bridge was built between the dwelling and the lighthouse, the boatslip and breakwater repaired, and the boathouse and oil store partly reshingled. The revolving gear had a new centre fitted.

Glasgow Point.—A new storm door was fitted and the chimney was repaired. A new boat was supplied and a w. c. built.

Grand Digue.—The mast and shed were moved to a safer position.

Gull Rock.—The stone protection work on the east side has been repaired and the lighthouse foundation sheathed with plank. New doors to cellar and new water spouts were fitted and the oil store was reshingled.

Guyon Island.—The foundation and chimney were pointed with cement, portions of the framing renewed and the building reshingled and leadflashed; lantern deck renewed and covered with canvas; doors and steps repaired and new shed built.

Hobson Island.—Thirty feet of west end of breakwater was repaired and 30 feet added to east end at landing place; old breakwater extended 30 feet eastward and 60 feet westward; new sills and sheathing on boathouse; three storm sashes and two new ladders furnished and new waterspouts fitted.

Jerseyman Island.—Cellar floor cemented, brick wall built in cellar, and kitchen chimney rebuilt; porch repaired, and three rooms sheathed inside; lantern completely repaired, covered with galvanized iron; lead flashed, and 2 panes of glass reset.

Little Hope.—Boat landing cleared of rocks and slip repaired; one side of dwelling reshingled, chimney repaired and crock fitted; two sills and part of shingling renewed on oil store.

Meaghers Beach.—In January, 1898, the breakwater at this station was extensively repaired, refilled with ballast, and resheathed where necessary. In November, 1898, three new groynes were built on the south side; 60 feet of breakwater was ballasted, 150 feet strengthened by ties, 150 feet of walling renewed, and 400 feet sheathed; 30 feet of plankwalk and railing was also renewed.

In October, 1899, about 80 tons of ballast were placed, 13 new piles driven, and 15 iron ties inserted, 5 groynes being repaired and ballasted, and new sheathing being placed where necessary.

North Canso.—Portions of framing renewed and building shingled; front door changed fron north to south side, porch built and storm door fitted; chimney rebuilt.

Parrsboro. — Cellar, shingling and ventilator repaired; saddle boards placed and window caps co — ed with zinc; new coal shed and chimney built; a hand fog horn was established at this station.

Peggy Point.—The 5th order dioptric apparatus at this station has been removed and the catoptric apparatus formerly in use has been re-established.

Point Prim.—Foundation wall repaired and oilshed and dwelling roofs shingled. New entrance porch and cellar doors, lantern glass renewed and w. c. built. The fog alarm boiler was patched, a new set of fire bars supplied and a new bell fitted to whistle.

Saint Esprit.—New sills placed and a large part of framing and outside sheathing renewed. Building completely papered, shingled and had flashed. Cellar door, windows front door steps and railing, gutters and spouts repaired. Lantern deck repaired and covered with canvas. Foundation wall pointed and breakwater repaired and ballasted.

Sambro.—New roof put on rocket house and front shingled. Magazine made weathertight.

From and after August 15, 1899, the cotton powder cartridges exploded at this station will be fired every ten minutes, instead of every twenty minutes, as heretofore.

Sheet Rock.—Roof shingled, chimney repaired, lantern deck repaired, and covered with canvass and new porch built. Breakwater on southside of tower rebuilt; 165 feet of walk laid; boatslip repaired and 20 feet renewed.

West Ironbound.—Lantern deck covered with canvass and glass reset. Oilstore shingled and new door fitted.

Whitehead.—Foundation and chimney pointed; roof repaired and one room wain-scotted. Oilstore foundation rebuilt, framing renewed and roof shingled. A new boat was supplied.

ST. PAULS ISLAND.

Extensive repairs have been made at the stations during the past season, comprising as follows:—

At Fog Alarm.—New circular wooden tank 30 feet in diameter and 10 feet high; new coal shed on east side of whistle house; new workshop.

The boilers were covered with asbestos, fitted with Crosby machines; a new iron tank was placed, and new tools and necessary fittings were supplied.

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At Main Station.—Boat shed enlarged and roof shingled; barn repaired and shingled new floors and spouting in dwelling; new foundation under coal shed and a new derrick erected.

The work was carried out under the supervision of Supt. Campbell.

SABLE ISLAND.

The following repairs were carried out during the past season :-

No. 1 Station.—Small repairs to buildings.

No. 3 Station.—Buildings repaired, boat tramway raise l, and new lookout, 50 feet high, built.

No. 4 Station.—Buildings repaired and new shafts built for wagons.

No. 2 Station.—New dresser and kitchen floor.

East End Light.—Lantern deck repaired and new floor laid in kitchen.

North-East Bar .- New refuge hut, 13 feet square, built.

Cranberry Island Cistern repaired; new boat.

MINOR REPAIRS.

| Station. | Nature. |
|----------------------|--------------------------------------------------------|
| Advocate Harbour | .Small repairs to dwelling and boat. |
| Amet Island | . Breakwater repaired. |
| Argyle | . Chimney and eave finish repaired. |
| Arichat | . Small repairs; new boat and stove. |
| Arisaig | . New rai ing on gallery; shed moved. |
| Baccaro | . Foundation sheathed; new storm doors and sashes. |
| Barrington Lightship | . New sail, dory and compass. |
| Beaver Island | . New boot. |
| | . New down spouts and storm doors. |
| Black Rock Point | .Small rep irs to building and breakwater. |
| Boars Head | |
| Bon Portage | . General repairs; new boat. |
| Brier Island | |
| Brooklyn Pier | . Mast moved to a safer position on pier. |
| Bunker Island | . New skids for boat; bell striking apparatus repaired |
| Candlebox Island | . New boat. |
| Canso Harbour | . New boat. |
| | . New stove; new storm sashes, and plaster repaired. |
| | Fog whistle repaired and new boiler fittings supplied. |
| Cape Roseway | . Fog alarm boiler patched. |
| | . Dwelling and fog-alarm boiler repaired. |
| | . Two new ladders furnished. |
| Careys Point | . New sills under frame. |
| Caveau Point | .Two new ladders. |
| Chebucto Head | . New boat. |
| | . Seven new storm sashes. |
| Coffin Island | . Lantern deck repaired. |

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| Station. | Nature. |
|------------------|---------------------------------------------------|
| Crichton Head | |
| Crouchers Island | . New boat. |
| Devils Island | . Boatslip repaired. |
| Dover | . New storm door. |
| Fish Island | New gutters and water tank. |
| | . Chimney and oil store repaired; new ventilator. |
| Freestone Island | |
| Guysboro | |
| | . Foundation walls repaired. |
| Ingonish Island | . Small repairs; new boat furnished. |
| Isaac Harbour | |
| Isle Haute | . New capstan; boat repaired. |
| | . Small repairs to tower and breakwater. |
| Jeddore Rock | |
| Jerome Point | . Lantern repaired; new tackle furnished. |
| Kidston Island | . Small repairs; new boat. |
| Louisburg | . New well dug; tower sheathed inside. |
| Louisburg Range | |
| | . Coal shed door repaired. |
| Margarets Bay | .Small repairs. |
| Marjories Island | Foundations renewed. |
| Mullins Point | |
| Pages Island | New pump; roof repaired. |
| Petitdegrat | .'Two rooms sheathed; broken glass replaced. |
| Pictou Bar | . Dwelling and walk repaired. |
| Pipers Cove | Small repairs. |
| Pt. Aconi | . Lantern rail repaired; new stove. |
| Pomquet | . New floor in kitchen. |
| | New platform around dwelling; new boat. |
| | . Dwelling repaired and shingled. |
| Pubnico | . Breakwater repaired; five new storm sashes. |
| Pugwash | New well. |
| Quaker Island | . New well. |
| | New boat; new glass in lantern. |
| Scatterie | Repairs to fog-alarm machinery; fences repaired. |
| Seal I | New fittings for fog-alarm machinery. |
| Sydney Har | New stove. |
| Three Top I | . Lantern repaired and glass renewed. |
| | Small repairs; new boat. |
| | Revolving apparatus repaired. |
| | Boathouse shingled; new boat. |
| | Repairs to oil store and dwelling; new boat. |
| | - |

HAND FOG HORNS.

Hand fog horn; have been established at the following stations:—
Cape Sharp, Pages Island, Parrsboro, Pubnico, Sand Point and Shelburne.

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SESSIONAL PAPER No. 11

BUOY SERVICE.

Additional coast buoys placed during last season.

Neil Point, Port Medway.—A black iron can buoy has been re-established outside the point of flats off Neil Point.

Jack shoal.—A red conical iron buoy, with "Jack shoal" in white letters on the side has been re-established to mark the outside of the shoal off Cape Jack, near the northern entrance to the gut of Canso.

Liscomb buoy.—A Courtenay automatic whistling buoy was established on July 19, 1899, to serve as a fairway coast buoy, 5 miles S. \(\frac{3}{4} \) from Liscomb light, on the Atlantic coast on Nova Scotia. The buoy is striped black and white vertically with "Liscomb" in white letters on the black parts.

Schooner Passage.—An iron can buoy, painted in alternate red and black horizontal bands, has been established to mark Schooner Passage rock, S.W. extremity of Nova Scotia.

Owls Head.—A black iron can buoy has been established off Owls Head, at the north end of Schooner Passage.

Pennant Automatic buoy.—An automatic whistling buoy has been established off Pennant Point, on the southern coast of Nova Scotia. It is a black conical buoy, with "Pennant" in white letters on the side.

Additional harbour buoys placed during last season.

West Dublin Bay, Crooke'l Channel.—The channels in West Dublin Bay and Crooked Channel, near the mouth of La Have river, N.S., have been marked by the establishment of 6 black spar buoys, 5 red spar buoys and 2 red and black spar buoys.

Neal harbour.— A spar buoy has been placed to mark the shoal on the port hand entering Neal harbour, eastern coast of Cape Breton.

Johns island beacon.—An iron spindle, surmounted by a black slatwork sphere 20 feet above high water has been established off the extremity of the bar off the north-east end of Johns island, Cocker wit passage, south-west extremity of Nova Scotia.

The following buoys were carried away during the season and have not since been found or reported:—

Sisters Bell Buoy.

Sambro automatic.

Louisburg automatic.

The colour of Pease's Island Fairway buoy has been changed from red and black horizontal bands to black and white vertical stripes.

HALIFAX PILOTS.

Pilots for this district cruise in schooners within a radius of 15 miles outside Chebucto Head. There are no shore pilot stations.

PRINCE EDWARD ISLAND LIGHTHOUSE DIVISION.

This division is under the charge of Mr. Artemas Lord, who is agent of the department at Charlottetown, and also acts as inspector of lights for the district which embraces the whole province. The general routine of the office work has been, as formerly, performed by the agent, assisted by Mr. H. W. Mutch as clerk and messenger. The work of building new lighthouses and superintending the more extensive repairs at existing stations has been done under the personal superintendence of Mr. M. Walsh as foreman of works. Under the agent's instruction Mr. Walsh is also warehouseman for the lighthouse stores in Charlottetown.

There are in the division 66 lights at 39 stations, and one fog-horn, under the charge of 46 keepers. There are three automatic whistling buoys and one bell buoy. The majority of the lights are situated on headlands and serve the general purposes of navigation, the remainder being harbour lights intended particularly for the benefit of fishermen. There are thirty harbours buoyed under the system of three-year contracts, and seven in which buoys are maintained by the department under the local harbour masters.

All the stations on the island were inspected by the agent and Mr. Walsh on the annual supply trip in July last, which was made on the new D.G.S. "Grant."

IMPROVEMENTS AND REPAIRS.

North Rustico.—The lighthouse tower at this station was undermined and capsized during a heavy north east gale on January 12, 1899, and the close pile and protection work were badly damaged at the same time.

The tower was moved back and erected on firm ground and is now used as a coast light only, a mast light having been erected to serve as a back range.

The total cost of the work which was done under Mr. M. Walsh's supervision was \$608.46.

Cape Bear.—The dwelling at this station was thoroughly repaired and an addition of 21 feet built on, at a cost of \$463.85.

Sandy Island.—Owing to the dangerous position occupied by the tower it was last winter removed to a new site selected on the sand hills outside the harbour and south of the entrance, 2,280 feet S. by S. from its former position.

The tower, with the dwelling attached, now stands on a low terrace on the inner face of the south sand hills, and will in future be known as "Cascumpec main lighthouse." In its new position the light is elevated 48 feet above high water mark and should be visible 12 miles from all points of approach by water. The height of the tower from base to vane is 46 feet. In other respects the light and building are unchanged.

The work was done by local labour under the superintendence of Mr. M. Walsh, at a total cost of \$576.62.

Sarage Island.—The mast lights heretofore maintained on Savage Island have been moved on to the sand hills south of the entrance to Cascumpec harbour where they mark the best channel over the bar at present.

The front mast stands on the sand hills near the beach, 2,700 feet S.S.E. from the Cascumpec main lighthouse. It is 22 feet high, has a hut at its base and a small, diamond-shaped slatwork day mark at its head. The whole structure is painted white.

It shows a fixed white catoptric light from a lantern hoisted to the top of the mast, about 35 feet above high water mark, which should be visible 5 miles in the line of range.

The back range light is a similar light, shown from a similar mast, established 1,200 feet, S.W. by W. from the front light. It is elevated 40 feet above high water mark, on a mast 26 feet high.

It is proposed, next season, to replace these most lights by lights shown from small inclosed towers.

North Point.—The machinery reaching the light broke down on December 18' 1899, and the light was discontinued until the opening of navigation in 1900.

Murray Harbour.—It was necessary to remove the outer tower in consequence of the rotting of the block under it. An arrangement was concluded with Hon. D. Davies by which the tower was placed upon his land and breastwork, the side being provided free of charge in consideration of the Department assisting in building the necessary protection work. This was done at a cost of \$154.43.

BUOY SERVICE.

Summerside Harbour.—Three of the iron buoys marking the entrance to Summerside harbour have been moved to better indicate the best water in the channel; all the buoys now mark turns in the channel, and all have been numbered in accordance with the international rules.

West Point.—The whistling buoy on this station was carried away by ice in the winter of 1898-99. A new buoy was provided on June 9, 1899. This buoy went adrift in September, and was not again replaced before the close of navigation.

BRITISH COLUMBIA LIGHTHOUSE DIVISION.

This division comprises all Canadian waters on the Pacific coast and the inland navigation systems of British Columbia, and is under the charge of Captain James Gaudin, agent of the department at Victoria, who also acts as inspector of lights.

There are in this province 26 light-stations, at 6 of which are steam fog-alarms, and at 6 others bells are rung by machinery. There are also 2 beacon lights in Victoria harbour, and two similar lights in Nanaimo harbour, which, as aids to navigation, are highly appreciated.

The lights are in charge of 25 light-keepers, some of whom supply assistance out of the salaries allowed.

The lights are supplied by the Dominion steamer Quadra, Capt. J. T. Walbran, master, and the fog-alarm machinery at the several stations was periodically inspected by the engineers of the Quadra.

NEW LIGHTS ESTABLISHED.

Pointer Island.—A lighthouse erected on Pointer Island, Fitzhugh Sound, east entrance to Lama passage, was put in operation on November 5, 1899. The lighthouse stands on the south-east end of the small island south of the entrance. It is a white square wooden building with a red roof, surmounted by a red, square, wooden lantern, and is 30 feet high.

The light is fixed white, elevated 42 feet above high water, and visible 12 miles. The illuminating apparatus is dioptric of the 7th order. The building was erected by day's work by the department, under the foremanship of Mr. D. M. Fraser of Vancouver.

Dryad Point.—A lighthouse erected on Dryad Point, (formerly Turn Point) Campbell Island, northern entrance of Main Passage, Seaforth Channel, was put in operation on November 7, 1899.

The building is a white square wooden tower, standing on a red foundation and surmounted by a red lantern. It is 39 feet high from base to vane.

The light is fixed white elevated 36 feet and is visible 11 miles. The illuminating apparatus is dioptric of the seventh order.

A small dwelling house was also provided at this station. The work was done by the department, M. Fraser as foreman of works.

IMPROVEMENTS AND REPAIRS AT EXISTING STATIONS.

Fisgard.—The dwelling house at this station was sheathed inside throughout at a cost of \$200. This was necessitated by the fact that the concussion caused by the firing of heavy guns at Rodd hill had loosened the plaster.

Fiddle Reef.—The boat house and boat at this station were destroyed in a heavy gale on January 20, 1899. A new boat house was erected at a cost of \$123, and a new boat was supplied. Red sectors were added to the fixed white light heretofore shown, to mark the foul ground on the western side of the channel approaching the light.

Prospect Point.—The fog bell at this station now gives one stroke every twenty seconds instead of two strokes in quick succession every minute. A boat and boathouse have been supplied to this station.

Sisters.—The light at this station has been changed in character from a fixed white to an occulting white light, visible twenty seconds and eclipsed ten seconds alternately. A new boat was supplied at a cost of \$70.

Egg Island.—It was found necessary to build a new foundation for the boat house, and a new boat slip, both of solid masonry, as well as a breakwater for the protection of the building. The total cost was \$370 for labour and material. A new boat was supplied at a cost of \$70, to replace one lost in making the very exposed landing.

Garry Point.—The fishing light at the station was destroyed by fire on April 14, 1899. It was immediately rebuilt and again put in operation on April 20.

Gallows Point.—The group of piles from which a red light was shown off Gallows Point, on the south side of the entrance to Nanaimo Harbour was carried away by the sea, and has been replaced by a platform buoy, surmounted by a slat work pyramid.

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The buoy and superstructure are painted black and numbered '1.' The red light has been removed to a post erected on the extremity of the dump on Gallows Point on the opposite or northern side of the entrance to the harbour. The light is, as heretofore, a fixed red light shown from a small lens lantern, 8 feet above high water-mark, and is visible 2 miles.

MINOR REPAIRS.

| Name | Nature. | Cost | |
|------------------|----------------------------------|-------|-----------|
| Cape Beale | Trail repaired | \$100 | 00 |
| Berens Island | Verandah and plank walks renewed | 56 | 50 |
| Discovery Island | Boat slip repairs | 12 | 50 |
| East Point | Small repairs | 15 | 00 |
| Sand Heads | New store | 16 | 00 |
| | New lamps | 75 | 00 |
| Point Atkinson | Reservoir wall repaired | 85 | 00 |
| Brockton Point | Boat supplied | 54 | 00 |
| Entrance Island | . do | 70 | 00 |
| Cape Mudge | . do | 54 | 00 |

BUOYS AND BEACONS.

New Buoys and Beacons.

Atkins Reef.—A stone beacon, surmounted by a staff carrying a lattice work ball 6 feet in diameter the whole painted black and showing 9 feet above high water, has been erected on Atkins Reef, Trincomali Channel. The cost of erection was \$350. The work was done principally by the crew of the Quadra.

Celia Reef.—A 4-foot red steel can buoy has been established off Celia Reef, Shute Passage.

Danger Reef.—A conical wooden beacon, 25 feet across at the base, surmounted by a staff carrying a lattice work ball, 6 feet in diameter, the whole painted black and showing 40 feet above high water, has been erected on the north end of the easternmost rock of Danger Reef, in the channel between Valdes and Vancouver Islands. The work was done by the crew of the Quadra.

Esquimalt Harbour.—A small platform buoy with a lattice work cone on top has been moored in 11 feet water close to and northward of the rock eastward of Patterson Point, Esquimalt Harbour.

Gabriola Reef.—A conspicuous square stone beacon, surmounted by a staff carrying a lattice work ball 10 feet in diameter, the whole painted black and showing 22 feet above high water, has been erected on Thrasher Rock, at the north-easterly extremity of Gabriola Reef. The total cost of erection was \$2,492.35. The work was done by day's work, the Quadra acting as construction tender. The buoy previously marking the reef was withdrawn on the completion of the beacon.

Johnstone Reef.—A 4-foot black steel can buoy has been moored on the eastern extremity of Johnstone Reef, Haro Channel.

North Reef.—A pyramidal wooden beacon, 19 feet square at the base, surmounted by a staff carrying a lattice work ball 9 feet in diameter, the whole painted white and showing 40 feet above high water, has been erected on North Reef, Stuart Channel, by the Quadra.

Nanaimo Harbour.—A red spar buoy has been moored in Nanaimo Harbour to mark the north west shoulder of the middle bank.

Shute Reef.—A stone beacon, surmounted by a staff carrying a lattice work ball 8 feet in diameter, the whole painted black and showing 8 feet above high water, has been erected on Shute Reef, Satellite Channel, off the south-east coast of Vancouver Island. The cost of erection was \$1,407.

Shark Spit.—A pile beacon was in May last established on Shark Spit, Mary Island, and Channel rock marked by an iron drum on top, showing 3 feet at high water.

Virago Rock.—A large black spar buoy has been moored off Virago rock in Portier pass between Valdes and Galiano islands.

West Rock.--A 5-foot steel can buoy has been established on West Rock, off Sydney Spit.

Changes in existing Buoys and Beacons.

Governor Rock.—The black can buoy missing from Governor Rock, Trincomalie Channel, was replaced in May, 1899.

Hodgson Reefs.—The buoy on Hodgson Reefs, Chatham Sound, was moved to the northward and westward, kelp having been seen outside the old location, and was changed in colour from red to black to conform with the international rules in November 1899.

Indian Reef.—The spar buoy, heretofore moored off Indian Reef, Shoal Islands, Stuart Channel, has been replaced by a 5-foot black steel can.

Baynes Sound.—The inner beacon on Kelp Bar, north entrance to Baynes Sound, was re-erected in May, but having been again carried away, has been finally discontinued, and is now replaced by a red spar buoy. The tide gauges, mentioned in last year's report as having been established on the Kelp bar beacons are no longer maintained. The beacons on the shore to guide over Kelp bar, have been renewed, and the beacon on Union Spit was re-erected. The 5-pile beacon on the end of Maple Spit, which was carried away last winter has been replaced. It is painted black and surmounted by a lattice work ball, 6 feet in diameter painted white.

Sturgeon and Spanish Banks.—The beacons on Sturgeon Bank and Spanish Bank, Straits of Georgia, mentioned in last year's report as having been carried away, have been replaced.

Buoys discontinued—The can buoys, for some time maintained on Hewitt Rock, Hiekish Narrows, Finlayson Channel; on Nimpkish Bank, Broughton Strait, and on Ripple Rock, Race Passage, Johnstone Strait, have been discontinued, as, in consequence of the strong currents, it was found impossible to keep them reliably in position.

HYDROGRAPHIC NOTES.

Much information respecting dangers in British Columbia waters and in United States waters contiguous to the international boundary line has been published drawing

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the past year. Capt. J. T. Walbran, master of the D.G.S. Quadra has been given opportunities of examining the location of reported dangers, and examinations have also been made by officers of H.M. ships, and by other mariners. The following may be enumerated amongst the work done:

The location of a shoal off White Rock, Cole Bay, and of shoals off White Rock, Trincomalie Channel, by H.M.S. *Egeria*: of two rocks off Kinghorn Island, fairway to Desolation Sound, of a rocky ledge off Three Islets, east of Cortes Island; of uncharted shoals or rocks off Halibut Island, Miners Channel; near Flat Top Islands, off Gabriola Island; off DeCourcy Group, Pylades Channel; in Metlahcatlah Bay; and off Lizard Islet Mayne Island.

The listing of possible dangers off the west coast of Vancouver Island.

The selection and description of new clearing marks for Burnaby Reef, Vancouver Harbour.

Examinations of Portier Pass and location of dangers therein.

Correction of the positions of rocks in Lama Passage, and of the coast line near Dryad point lighthouse.

The location of dangerous rocks in Rosario Strait by the United States Coast and Geodetic steamer Gedney.

Surveys were made and plans prepared of Oyster Harbour, Hope Bay, Sturt Bay, and Van Anda Cove.

As predicted in last year's report, it was not found necessary to resume the semaphore service on the Stikine River during the season of navigation of 1899, and the equipment has been taken into store.

Respectfully submitted,

WM. P. ANDERSON,
General Superintendent of Lighthouses.

January 2, 1900.

[Inclosure B.]

LIST OF BUOYS MAINTAINED BY THE DEPARTMENT OF MARINE AND FISHERIES IN CANADIAN WATERS IN 1899.

ONTARIO.

| Amherstburg, including Bois Blanc | 44 | Pembroke |
|-----------------------------------|-----|---------------------------|
| Bay of Quinte (three contracts) | 32 | Point Pelee, gas buoys |
| Burlington Bay | 1 | Port Rowan |
| Collingwood | 14 | River Thames |
| Fiddlers Elbow | 1. | Rondeau |
| Gananoque Narrows | 5 | Lake Nipissing. |
| Georgian Bay | 11 | Sault Ste. Marie |
| Green Shoal | 1 | " canal approaches |
| Grecian Shoal | 1 | South Baymouth |
| Grosse Point | 6 | Lake Superior |
| Kaministiquia | 19 | Trenton |
| Kennedy Shoal | 1 | Point au Baril |
| Kingston | 19 | Surprise Shoal, bell buoy |
| Little Current | 6 | Penetanguishene |
| Lake of the Woods | 144 | Red Horse Rock |
| Lone Rock, bell buoy | 1 ! | St. Joseph Channel |
| Midland | 7 | Port Arthur |
| Murray Canal and Presqu'île Bay | 23 | Lake Sincoe |
| North Sisters Rock, Ont | 4 | Pancake Shoal, bell buoy |
| Napanee | 14 | Tin Cap Shoal |
| Niagara, bell buoy | 1 | Byng Inlet |
| Orillia | . 6 | Stokes Bay |
| Parry Sound | 24 | Bears Rump |
| " gas buoys | 3 | 1 |

QUEBEC.

| House Harbour, Magdalen Islands | 6 | St. Ann River 1 |
|---------------------------------|--------|-----------------------------------------|
| Bersimis and Outard Bay | 10 | St. Thomas 8 |
| Cap Chatte | 1 | St. Placide, stakes 40 or 50 |
| Carleton Point | 1 | St. Adelaide de Pabos 1 |
| Chicoutimi | 13 | North Channel, Island of Orleans 10 |
| Cock Point | 1 | Cape Cove 1 |
| Fox River | 1 | Bonaventure |
| Gaspé | 5 | St. Lawrence River between Montreal and |
| Lachine and Lake St. Louis | 23 | Quebec |
| Lake St. Francis | 36 | Eschourie Rock |
| Matane | 3 | Grand Entry |
| New Richmond | . 4 | Amherst Harbour 8 |
| Paspebiac | 1 | Richelieu Rapids, bushes |
| Percé | 2 | Maintained by Agency, gas buoys 11 |
| Richelieu River (two contracts) | 47 | " smaller buoys 40 |
| Rivière des Prairies | 10 | |

List of Buoys maintained by the Department of Marine and Fisheries, &c.—Continued. NEW BRUNSWICK.

| Bathurst | 26 | Oak Bay and Restigouche | 6 |
|------------------------------|----|---------------------------------------|-----|
| Bay Verte | 36 | Oromocto | 7 |
| Beaver and Blacks Harbour | 9 | Pisarinco | 2 |
| Bay du Vin | 4 | Pokemouche | 5 |
| St. John River | 68 | Quaco | 3 |
| Black Brook, Miramichi River | 3 | Quaco | 28 |
| Black Land Gully | 12 | Richibucto, Kingston and Brown's Yard | 30 |
| Buctouche | 16 | Shediac | 11 |
| Campobello | 10 | Shippegan | 19 |
| Caraquet | 20 | St. Andrews | 15 |
| Cocagne, stakes, 50 | 11 | St. Croix Ledge | 11 |
| Dalhousie and Restigouche | 10 | Tabusintac | 17 |
| Didgequash | 5 | Tracadie | 19 |
| Dorchester | 3 | Washadamoak | - 5 |
| Grand Lake and Salmon River | 73 | West Isles | 22 |
| Grand Manan | 30 | Maquapit and French Lakes | 24 |
| Great Shemogue | 7 | Grande Anse. | - 4 |
| Harvey | 7 | Petit Rocher | |
| Letete and Black Bay | 21 | North-west Arm, Miramichi | 6 |
| Lepreaux | 3 | Marsh Point | 1 |
| Little Shemogue | 6 | Dipper Harbour | • |
| Little Shippegan and Miscou | 12 | Buctouche River | 18 |
| Magaguadavic | 13 | Tynemouth Creek | - 3 |
| Miramichi | 18 | Maintained by Agency, signal buoys | 9 |
| Musquash | 7 | " can buoys | |
| Neguac | 16 | | |

PRINCE EDWARD ISLAND.

| Bay Fortune | 3 Montague | 6 |
|------------------------|--------------------------------------|-----|
| Beach Point | 3 Murray Harbour | 33 |
| Bedeque | 11 New London | 20 |
| Cardigan, Lower | 5 Orwell and Vernon River | 6 |
| "Upper | 11 Pinette | 5 |
| Cascumpec | 26 Port Hill | 9 |
| Charlottetown | 42 Pownal | 7 |
| Cove Head | 2 Rollo Bay | 3 |
| Orapaud | 6 Rustico | 5 |
| East River (Hillsboro) | 17 Savage Harbour | 2 |
| Egmont Bay | 10 Souris | 4 |
| Georgetown | 13 St. Peters Harbour | 8 |
| Goose Harbour | 2 Summerside | 11 |
| Grand River | 10 Tracadie | - 5 |
| Grand River, Lot 14 | 8 West Point | ì |
| Indian Rocks | 1 Wood Island | ī |
| Malpeque | 16 Egmont Bay | 3 |
| Miminegash | 3 Brae Harbour | i |
| Little Channel | 2 Maintained by Agency, signal buoys | 3 |

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List of Buoys maintained by the Department of Marine and Fisheries, &c .-- Continued

NOVA SCOTIA.

| Advocate Harbour | 5 | McKinnons Harbour |
|-----------------------------------|-----|-----------------------------------------|
| Apple River | 8 | Musquodoboit |
| Arichat | 16 | Northport |
| Avon River | 5 | North Sydney |
| Barrington. | 35 | Parrsboro |
| | 12 | Petit de Grat |
| Bear River | 2 | |
| Beaver Harbour | | Pictou. |
| Birchton | 5 | Popes Harbour |
| Bridgewater | 10 | Port Hood |
| Canso and St. Andrews Passage | 28 | Port Le Tour |
| Cape Negro or North-East Harbout | 14 | Port Medway |
| Caribou | 6 | Port Morien |
| Cheticamp | 12 | Pubnico |
| Chezzetcook and Petpiswick | 6 | Pugwash |
| Christmas Island and Barra Strait | 11 | Prospect, Lower |
| Clarks Cove, West Bay | 3 | River John |
| Clarks Harbour | 17 | St. Anns |
| Cockerwit Pass and Woods Harbour | 15 | St. Marys River |
| Crow Harbour | . 3 | St. Peters Bay |
| D'Ecousse | 8 | St. Peters Inlet |
| Chester | 5 | Sambro |
| | - 7 | Shag Harbour |
| Digby and Annapolis | 1 | Short Horborn |
| Dover | 5 | Sheet Harbour |
| Dipper Harbour | 3 | Shelburne |
| Great Bras d'Or | 7 | Tatamagouche |
| Guysborough | 3 | Terrence Bay |
| Hay Cove | 8 | Tor Bay |
| Harbour au Bouche | 1 | Three Fathom Harbour |
| Ingonish, South Bay | 8 | Tidnish |
| Isaacs Harbour | 1 | Tusket |
| Janvrin | 4 | Upper Prospect |
| Jeddore | 11 | Wallace. |
| Judique | ĩ | West Bay |
| Ketch Harbour | 13 | Westport |
| L'Ardoise | 3 | Weymouth |
| | 8 | Whitehead |
| La Have | 16 | West Dublin and Crooked Channel |
| Lennox Passage | | |
| Little Narrows | 10 | Yarmouth |
| Liverpool | 3 | Smiths Island |
| Lockeport | 6 | Ship Rock |
| Lunenburg | 9 | Sydney |
| Lunenburg, South | . 9 | Shulee |
| Lunenburg, Middle South | 16 | East Bay Bras d'Or |
| Louisbourg | 6 | Port Félix |
| Mabou | 12 | Chester Martin's Pt |
| Mahone Bay and Chester | 13 | Gillis Point, Boulaceet Harbour |
| Main-à-Dieu | 6 | Tangier |
| Margaree Harbour | 9 | Maintained by Agency. (Whistling buoys) |
| Martins Brook | 6 | " (Bell buoys) |
| | 6 | 1 2 1 2 1 |
| Merigonish | | |
| Monsellier | 10 | |

BRITISH COLUMBIA.

| Gossip Reef(Wooden Can) | 1 | Kelp Point, Baynes Sound (Spar) | 1 |
|-------------------------------|-----|---------------------------------------|--------|
| Gabriola Reef(Iron can) | 1 | Village Point, | 1 |
| Lighthouse Island(Wooden can) | 1 | Somass R., Alberni | 5 |
| Point Grey(Iron can) | 1 | Victoria Harbour (Wooden cage) | 3 |
| Spanish Bank(Wooden can) | 1 | " (Wooden can) | 1 |
| Sturgeon Bank (Iron nun) | 3 | Esquimalt Harbour(") | 2 |
| Jesse Island(Wooden can) | 1 | (Iron nun) | 1 |
| Horsewell Reef (" ") | 1 | Nanaimo (Wooden cage) | 11 |
| Reef Point, M. I | 1 | Sand Heads, Fraser River (Iron) | 10 |
| Clarke Rock | 1 | Sydney Channel (Steel buoy) | 1 |
| Qualicum("") | 1 | Rosedale Rock | 1 |
| Comox Bar 1 (" ") | 1 | Johns one Reef | 1 |
| Comox Bar 2 (" ") | 1 . | Celia Reef | 1 |
| Kelp Reef(Spar) | 2 | Shoal Island (" ") | 1 |
| Burnaby Reef ("), | 1 | Virago Rock, Portier Pass (Spar buoy) | 1 |

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[Inclosure C.]

ANNUAL REPORT OF THE OFFICER IN CHARGE OF THE HYDROGRA-PHIC SURVEY OF THE GREAT LAKES.

HYDROGRAPHIC SURVEY,

OTTAWA, December 30, 1899.

The Chief Engineer,
Department of Marine and Fisheries,
Ottawa.

SIR,—I have the honour to report as follows upon the work of the Hydrographic

Survey during the past year :-

Last winter a fair sheet of the portion of Lake Huron extending from Drummond Island (State of Michigan, U.S.A.) to Duck Islands, and including False Detour Channel and Mississagi Strait, was prepared and forwarded to the Hydrographer of the Admiralty for engraving and publication.

I regret to say this chart has not yet been issued.

The season was late in opening, it being May 3rd before a start could be made. May and June were poor months for work as we had fogs, rain and wind nearly continuously. July and August were very fair, but September and October were again very bad.

Work was further delayed, for a fortnight, in June, by the breaking of the steamer's main shaft. Whilst undergoing repairs I detached Messrs Anderson and Tyrwhitt with

a boat's crew to work near South Baymouth, Manitoulin Island.

The survey of the south shore of Manitoulin Island, from Providence Bay to the entrance to Georgian Bay was completed by July 1. (About half of this was done in 1898.)

I then undertook the survey of the south and west shores of the Saugeen Peninsula, completing as far as and including Stokes Bay and carrying the triangulation as far as

Southampton, a distance of 60 miles from Cove Island lighthouse.

This survey is an extension of Capt. Boulton's work at the entrance to Georgian Bay in 1884. A check base was measured in Stokes Bay and extended to a side of the main triangulation with an almost perfect agreement.

The offshore sounding was carried to an average distance of 11 miles from shore

and to a depth of from 40 to 60 fathoms.

There were surveyed 525 square miles of water, in which soundings were taken from the steamer's deck over 1,150 lineal miles, and from the boats, over 850 miles. Seventy-five miles of traversing were done.

The shore surveyed this season is not a dangerous one for ordinary trade, there being no far outlying shoals, but for the coasting trade the shore is very foul, the har-

bours few, small and shallow with no anchorages except in Stokes Bay.

A careful examination of this latter bay and its entrance was made. Six spar buoys were placed to mark the channel and two beacons erected, which in line lead fairly into

the bay.

Stokes Bay is really the only safe harbour on the Canadian shore of Lake Huron from St. Clair River to Tobermory, a distance of 160 miles. It is quite large, the anchorage is both good and safe, and were the beacons replaced by lights it could be made by any ordinary vessel in any weather. I also placed buoys to mark the south end of the shoal off Duck Islands, Lake Huron; the south end of Bears Rump shoal, Georgian Bay; and the entrance to South Bay, Manitoulin Island.

Ca eful observations for the variation of the magnetic needle were made, with a field unifilar magnetometer, at various points along the shore. These show a larger rariation, at the entrance to Georgian Bay than is usually allowed.

The season closed on October 25.

During the winter copies of the season's work will be prepared, in two sheets, for Hydrographer of the Admiralty, who has all our charts engraved free of charge. hese sheets should be published for the opening of navigation in 1901.

During next season the survey should be completed as far south as Clark Point and criangulation carried as far as Goderich, the latitude and longitude of which have been ery carefully determined.

The shore of the lake from Clark Point to Cape Ipperwash (the termination of the survey by the U. S Corps of Engineers) is nearly straight and free from dangers. Its survey could be left for more pressing work.

The demand for the last edition (300 copies) of the Georgian Bay and North Channel Pilot has been so great that it has been cleared out. A new one is in course of preparation.

With the close of next season, the survey of Lake Huron should be completed. There will then remain only Lakes Ontario and Superior of the great lakes to be surveyed.

The former has very little unsurveyed dangerous water in the line of through traffic and its survey is therefore not pressing.

On the other hand a resurvey of Lake Superior is urgently required and for this purpose the steamer Bayfield is totally unfit. She cost \$15,000 in 1884 and about the same amount has been spent, at various times, upon repairs to her. She is a wooden screw tug, of about 100 tons, built in 1863 and had very hard service before we acquired her. The original high pressure engine, very much worn, is still in her, and her boiler, 17 years old, is weakening. In 1893 she was condemned, but has been pressed into service each year since for the summer weather only. Lake Superior is much larger than any waters we have yet surveyed, the seas are heavier, and there is no doubt a vessel of the Bayfield's age and condition should not be placed in such dangerous work.

The distances, too, are much greater and much valuable time would be lost by a

boat that cannot make better than seven knots per hour.

I would therefore strongly recommend that the survey be provided with a more suitable, larger, stronger, faster and more economical vessel. If this be not done the work of the survey will have to be abandoned as the *Bayfield* is no longer fit for work on exposed shores, similar to the Canadian shores of the great lakes upon which the prevailing winds beat so much.

I have the honour to be, sir,

Your obedient servant,

WM. J. STEWART,
Officer in charge of Hydrographic Survey.

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[Inclosure D].

ANNUAL REPORT OF THE ENGINEER IN CHARGE OF THE SURVEY OF TIDES AND CURRENTS IN CANADIAN WATERS FOR THE YEAR 1899.

OTTAWA, December 20, 1899.

W. P. Anderson, Esq., C.E., Chief Engineer, Department of Marine and Fisheries,

SIR,—I have the honour to submit the following report on the progress of this Survey. All the tide tables have been prepared and issued as usual, with the improvements referred to in my last report; and considerable progress has been made in working out practical results from the tidal observations which have been secured. In this work, I have had the assistance of Mr. R. Angus and Mr. S. C. Hayden; who also attended to the office work while I was away; as leave of absence for three months was granted to me on account of my health. Because of this also, it was not possible to undertake much in the way of new work this season. The principal tidal stations have continued in operation under the charge of the observers; and nearly all of them have been visited this season by myself or Captain Douglas. One secondary tidal station has also been established this season at the outer end of Belle Isle Strait.

The last report, containing information as to the tides of the Bay of Fundy with observations on the tidal bore in the Petitcodiac River, has met with much appreciation. As the survey becomes more widely known, the requests for information and the correspondence resulting, continue to increase. Many examples could be given of the accessory ways in which this survey often proves of value, in addition to its direct service to the shipping interest. The tide-levels especially, which require to be carefully worked out for the reduction of the tidal observations themselves, have been of important service in connection with harbour works, in several instances during the past year.

The total expenditure on this Survey during the fiscal year from June, 1898 to June, 1899, was \$5,186.35. This includes, in addition to the ordinary fixed charges, the sum of \$973.22 for the tidal observations in the Bay of Fundy in the summer of 1898; and \$834.15 for repairs to the crib-work of the gauges at Forteau Bay and St. Paul Island.

THE PRINCIPAL TIDAL STATIONS.

These stations have been in continuous operation throughout the past year, with the exception of Yarmouth; although some interruptions of a minor character occurred also at other stations.

The gauge at Yarmouth, N.S., was fitted up originally in 1898, as a summer station; without any provision for heating in winter, which requires a much more elaborate construction. As it is milder there in winter than at any of the other principal stations, the gauge was continued in operation to obtain as much tidal record as possible. At Yarmouth the mean temperature for January and February is $26\frac{1}{2}^{\circ}$ Fahr., which is $3\frac{1}{2}^{\circ}$ higher than at Halifax. The tide-column is of wood which is non-conducting; and some thick oil on the surface of the water in the tide-column, protects the water from the cold air; and thus, as it rises and falls with the tide, the oil keeps the ice from adhering to the inside of the column as much as it otherwise would. Notwithstanding such precautions, more than a month of record was lost during the first winter, in 1899 on account of frost; namely, from February 2 to March 10.

At Father Point the outer end of the inlet pipe was again carried away by ice on December 16, 1898; and when this occurs, the lowest of the low waters are not recorded on the gauge. This pipe could not be replaced until the early spring; and some of the low waters were accordingly lost during the winter. In relaying it, it was made more secure than before; so that the ice grounding upon it, might not shift it. There was also an interruption of six days at the end of January; for repair to the gauge clock. The balance-wheel escapement had to be removed and sent to Quebec for this repair.

At St. Paul Island, some trouble again occurred because of the partial chokage of the inlet to the gauge, by the accumulation of gravel in the autumn storms. This accumulation is due to the shallow water in the bay where the tide gauge is situated, and the severe exposure on the castern side of the island. On the western side the water is deep, close to the rocks; but if the gauge were placed there, it would be necessary to have a special observer, and to build a house for him and provision it; as there is no habitation on that side of the island. It is more economical therefore, to persevere under the existing difficulties.

There was also an interruption here of three days in August, owing to the difficulties of communication. Supplies shipped on April 20 were not delivered on the island till August 10. Meanwhile, on July 13, the observer cabled for additional tide sheets for the recording instrument; but with the best arrangements that could be made, the last tide sheets on hand were used before new ones were received.

At South-west Point, Anticosti, the crib-work and tide-well of the gauge were damaged in a severe storm in December, 1897. The observer succeeded in getting it to work again in February. As the expense of repairs could not be afforded in the ensuing season of 1898, it was decided to let the gauge go on as it was, as long as it would work. It so continued until January, 1899; when the sand and gravel accumulating within the damaged crib-work, caused partial chokage of the inlet to the tide-pipes; and the record became in consequence unreliable.

After careful consideration, it was decided to discontinue the tide gauge at this station; the reasons being as follows:—It was found from the extensive series of tidal observations of 1896, that no large area in the Gulf of St. Lawrence can be referred with advantage to South-west Point as a port of reference. It must therefore be considered chiefly as a station commanding the entrance to the Lower St. Lawrence; and its record chiefly for use as a basis for tidal differences and ratios. The record already obtained, comprising more than three complete years, is sufficient for these purposes; for which it is extremely valuable in being simultaneous with the observations at Father Point and Quebec The tidal relations between these three stations, are examined and discussed further on in this report.

When the observations were discontinued at this station, an exchange of time with Quebec Observatory was made by cable, in order to check the dipleidoscope on which the accuracy of the time used throughout the period of the observations, has depended. It was found correct.

The station was not completely dismantled; but was left in condition to fit up as a summer station at any time, for reference when the tidal currents on the Lower St. Lawrence come to be more fully investigated.

The causes of interruption above cited will serve as examples of the nature of the difficulties to be met, against which foresight is required. The difficulty of obtaining a uniform datum level for the height of the tide, when open tide-scales cannot be used in winter, and the special appliances and office methods which have been devised for this purpose, need not be detailed here.

INSPECTION OF TIDAL STATIONS.

The tide gauges at Quebec and Father Point were inspected by myself in August, on the expiry of my leave of absence. At Father Point, an extensive series of levels was taken instrumentally, to compare the actual rise and fall of the tide on the beach with the record on the gauge; as this gauge works by siphoning through an inlet pipe

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nearly 400 feet long. The results need not here be detailed. They will afford a table of correction to be applied to the readings of the height of the tide, to allow for the siphoning action; which is essential in the reduction of the observations.

The gauges at St John and Halifax were also visited in October; and careful instrumental levels were taken to check the elevation of the datum used. This is the more needful as both gauges are supported by timberwork; and check levels had not been taken for two years. At St. John the wharf against which the gauge is placed, floats up three inches at the higher tides. The column of the gauge itself, stands free of the wharf however, and rests directly on the bottom. It had not altered quarter of an inch in level since 1896. At Halifax the column of the gauge it set in a pile wharf; and it was found that no vertical movement had occurred of as much as quarter of an inch in two years, although the gauge sways with the piling when vessels moor to the wharf. The determination of these levels for datum is essential to the reduction of the observations.

The gauges at Forteau Bay and St. Paul Island were visited by Captain Douglas in the course of the season. Some important improvements were made; the levels were taken, and the dipleidoscopes, on which time for the observations depends, were adjusted by astronomical observations. The data for time and height are the two necessities at the tidal stations.

At the outer end of Belle Isle Strait a summer tidal station was established in July. The site chosen was in Henley Harbour, at the mouth of Chateau Bay. The record began on July 24, and is to continue as late as possible in the autumn. The reasons for the establishment of this station need not be discussed at length, although the best location for the purposes in view was carefully considered. By recording the tide of the open Atlantic at the outer end of the strait, it will afford a valuable comparison with Forteau Bay at the inner end, and possibly also with other Atlantic tidal stations.

OTHER TIDAL OBSERVATIONS RECEIVED.

We have to acknowledge during the year the receipt of the following information:—
Shubenacadie River.—Observations of the speed and the time of turning of the tidal current in the Shubenacadie River, Nova Scotia, were received from Mr. J. F. Armstrong, Assistant Engineer on the Midland Railway, now under construction.

Moncton.—The level reached by an exceptional tide at Moncton was noted by Mr. E. P. Cook, the Harbour master. It occurred on August 21, 1899, and reached a level only 4½ inches below the exceptional tide of October 12, 1887, which is the highest tide there recorded, next to the Saxby tide of October, 1869. These levels are important with reference to the dyked lands around the head of the Bay of Fundy. Mr. Cook kindly sent also several observations of the time of arrival of the tidal bore.

Chicoutimi.—Tidal observations at Chicoutimi for a period of two months in 1897 have been received from Mr. F. W. Cowie, C.E., of the Public Works Department. These were obtained by means of a self-registering gauge loaned by this Survey. As Chicoutimi is at the head of tide-water on the Saguenay River, this record will be valuable in furnishing a basis for the Saguenay tides, which will be of advantage for the growing trade of that river. Chicoutimi is 75 miles inland from Tadousac, at the mouth of the Saguenay.

Annapolis.—The level of the highest known tide at Annapolis, Nova Scotia, was determined and referred to a permanent bench-mark by Mr. J. S. Hodgson, C.E., of Wellington, Massachusetts, while engaged in a survey for the sewerage of that town. This information he kindly took the trouble to communicate. Unfortunately it does not at present afford a comparison with the tidal observations obtained at Digby, at the other end of Annapolis Basin, as continuous levels are wanting; but meanwhile it is locally important.

Seymour Narrows, B.C.—The original observations obtained here in 1897 by the United States Coast Survey have been kindly communicated to this department. These observations show the time of the turn of the current for a period extending from April to October in that year. Similar observations were also taken in Sergius

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Narrows, Alaska. The turn of the current has thus been brought into relation with the tide, and the results are now published in the Tide Tables issued by the United States Coast Survey.

TIDE TABLES FOR 1899; PUBLICATION, ETC.

Quebec, Halifax, and St. John, N.B.—The tide tables for these principal harbours were again furnished to the leading British and Canadian Almanacs, as far as they were willing to publish them. These tables give the time and height of the tide, the depth of water on dock sills, &c.; and they are accompanied as before by tidal differences by which the time of the tide at a large number of other ports, becomes known. The manner of publication was the same as described in last report; and it will therefore be sufficient to give a list of the almanacs in which they appear, in whole or in part:—

Canadian Almanac.—All the above, in full.—The Copp, Clark Co., Toronto. Greenwood's Almanac.— " "—Capt. W. N. Greenwood', Lancaster, Eng. Brown's Almanac.—Halifax tide tables.—Messrs. J. Brown & Son, Glasgow. Belcher's Almanac.—Halifax tide tables.—The McAlpine Co., Halifax. Cogswell's Almanac.—Halifax; time only.—Mr. R. H. Cogswell, Halifax. McMillan's Almanac.—St. John; time only.—Messrs. J. & A. McMillan, St. John. Moore's Tide Tables.—Quebec; time only.—Messrs. T. J. Moore & Co., Quebec. The Quebec Chronicle.—Quebec tide tables in full; one month at a time. The St. John Telegraph.—St. John tide tables in full; one month at a time.

It was arranged to have these tide tables reprinted from *Greenwood's Almanac*, as a neat pamphlet; and 450 copies of this, were widely distributed. This is a step in advance of last year's publication. It served to make these tide tables more widely known, and it also enabled all applications for copies of the tables to be met.

The other tide tables issued were as follows:-

Charlottetown, Pictou, and St. Paul Island.—Accompanied by tidal differences for Northumberland Strait, and the south-western side of the Gulf of St. Lawrence. These tide tables were computed by the Tidal Survey and printed by the Department; and 350 copies were distributed as widely as possible.

Father Point.—Prepared in manuscript only; and posted at the Lighthouse at Father Point. As this is the Pilot Station for the Lower St. Lawrence, they are there

accessible to the pilots.

Ste. Croix Bar.—Tide tables were again computed for this locality, as it is still the shallowest point in the tidal portion of the St. Lawrence above Quebec, pending the completion of the dredging operations. These tables were published in company with the tide tables for Quebec, by the Montreal Harbour Commissioners; in the publication they prepare annually for the information of the St. Lawrence pilots.

TIDE TABLES FOR 1900 AND 1901.

As the principal tide tables for Quebec, Halifax, St. John, N.B., and St. Paul Island, for the year 1900, are still based upon the same length of tidal record as before, there is no further improvement in their accuracy. It is also improbable that there will be any in the tide tables for 1901, which are already in hand for calculation.

It may be well here to review the amount of tidal record secured up to date; and lso to consider the question of the degree of accuracy of the tide tables as they stand t present.

TIDAL RECORD OBTAINED TO DATE.

The tidal record obtained at the principal stations, up to the end of 1898, is given in a summary form in Table D. appended. The reasons of the more important interruptions are also indicated. The table further shows how far the record has yet been

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worked up, as a basis for tide tables, and for the purposes of tidal comparison. The dotted lines in the table indicate that the work to which they refer, has not yet been done.

A considerable amount of tidal record, as indicated, has now been reduced and tabulated, and thus made ready for harmonic analysis. This analysis is only partially made as yet, for want of means to meet the necessary cost. It is only when this is done, that further improvement in the accuracy of the tide tables themselves will be secured. The additional record thus prepared, comprises two years at Quebec; two years at St. John, N.B.; and one year at St. Paul Island.

Besides the stations indicated on the Atlantic coast, two good series of tidal observations are being secured on the Pacific coast, from the tidal stations established by the Department of Public Works. These are at Victoria, B.C.; and at Sand Heads at the mouth of the Fraser River in the Gulf of Georgia. One full year of tidal record from each of these stations has now been tabulated, ready for harmonic analysis. Tide tables might thus be prepared at once for these Pacific ports, if means were available to meet the cost of the calculations required.

The shorter tidal records obtained in the summer seasons, are not shown in the table. These now comprise nine secondary stations in the Gulf of St. Lawrence, eight secondary stations in the Bay of Fundy, and one at the outer end of Belle Isle Strait. The tidal record obtained at these, has already been detailed in the annual reports of progress, referring to the work of the seasons during which they were in operation.

Besides the use of this record as a basis for tide tables, the tides at the principal stations have been largely used also for comparison with those at the secondary stations, in working out tidal differences, by which the time of the tide at a number of other ports becomes known.

In addition to the tidal record itself, full meteorological data are being secured for comparison, throughout the period of these observations. A continuous barograph record has been obtained from the three tidal stations which command the Atlantic seaboard; namely, Forteau Bay in Belle Isle Strait; St. Paul Island; and St. John, N. B. The daily weather charts issued by the Meteorological Service since 1896, are also received regularly and fyled. This service has also supplied since 1893, when the tidal observations themselves were commenced, a daily abstract of wind and barometer from ten meteorological stations throughout the area in question; namely, from Quebec, Father Point, South-west Point of Anticosti, Belle Isle, Chatham in Miramichi Bay, Magdalen Islands, Sydney in Cape Breton, Halifax, St. John, N.B., and Yarmouth, N.S. Also since 1893, a complete set has been kept of the monthly Pilot Charts of the North Atlantic, issued by the U.S. Hydrographic Office. These charts show the tracks of all the important storms, and are very convenient for reference. The monthly weather charts for Canada have also been kept on fyle since their first issue in 1896.

TIDE TABLES .--- IMPROVEMENT IN ACCURACY ALREADY SECURED.

The following condensed summaries show the improvement in the accuracy of tide tables for our principal harbours, as already obtained by this Survey, when compared with other sources of information. This by no means represents all the progress made, however. Such tide tables as were available in the past, gave only the time of high water and low water; but in the tidal predictions now issued by this Survey as annual tide tables for Halifax, Quebec, and St. John, N.B., the height of the tide is given as well as the time. This is important, as at two of these harbours the range of the tide is about thirty feet.

For our present purpose, in testing the accuracy of the tide tables as now calculated, a sufficient basis is afforded by a comparison between the time of high water as predicted in the tables, and the time as actually observed.

Halifax.—The earliest tide tables issued by the Tidal Survey were for this port. They were based upon constants derived from the harmonic analysis of two years of old record, obtained in 1860 and 1861. These tide tables were issued as a booklet as early as 1891, before the plan was taken of supplying the information direct to the

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almanacs, adopted on account of the very limited circulation which this booklet secured. It was not until the year 1897 however, that the local almanacs adopted the tables of this Survey, and republished them.

Up to 1896 therefore, the tide tables in common use for Halifax, were those published by *Belcher's Almanac*; based upon a contant difference of time with Brest, France. When the recording gauge had been established at Halifax, a comparison was made between the time of the tide as shown in these tables and the actual tide as recorded on the gauge, during the month of January, 1896. The result was as follows, for the time of high water:—

Extreme variation between the time of H. W. as given in these tide tables, and the actual time as observed: 0 h. 46 m. early to 0 h. 31 m. late.

Average error during this month, 20 minutes.

Tide Tables of U. S. Coast Survey.—The tide tables for Halifax since 1896, given in this publication, have been calculated from tidal constants furnished by this Survey, which were derived from the two years of the old record, first submitted to analysis.

Tidal Survey tables.— The tide tables for Halifax issued by this Survey, are now based upon the harmonic analysis of five years of tidal record; comprising four years of old record, and one year from the present tide gauge. To test the accuracy of these tables, a comparison was made between the time of the tide as there given, and the observed tides as recorded on the gauge. This comparison was made for a period of one month in the summer season; from July 18 to August 18 in 1898; it is given in Table A. herewith. The condensed result is as follows:—

Extreme variation between the predicted time of H. W. in the tide tables, and the actual time as observed: 14 m. early to 14 m. late.

Average variation during this month, 6 minutes.

Although the Halifax tables show the least irregularity of any of our ports when computed from the tides on the other side of the Atlantic, the improvement already obtained by basing them upon observations taken in the port itself, is marked. The average error in the time of the tide has thus been reduced to less than one-third, as compared with the old method of computation; or in other words, 70 per cent of improvement in the accuracy of the tide tables has been secured.

The harmonic constants for Halifax as they now stand, were published in the last report; from which it will be seen that the monthly and fortnightly components among the long-period tides, are not yet satisfactorily determined. An improvement in this respect will be secured, as further tidal record is obtained and submitted to analysis, in the future.

St. John, N.B.—The only tide tables formerly available were those given in *McMillan's Almanac*, published at St. John, and computed by means of a constant difference in time from Brest, France. These tables gave only the time of high water, without any reference to the height of the tide; although the range at St. John is greater than at any other harbour of the same importance in North America.

The tide curves at St. John were found to be so uniformly regular, that several series of comparisons were made in the early days of this Survey, in the hope of obtaining some constant difference in time, which would serve to compute reliable tide tables. Brest had already been used in the computations; and as it is one of the best established tidal harbours in the world, its tide tables are unusually accurate. A comparison was therefore made between these tables and the observed tides at St. John, which extended over a continuous period of eleven months in 1893. The difference in the time of high water, which had been assumed to be a constant one, was found by this comparison to vary through a range of more than an hour and a half. The use of a constant difference would thus leave a margin of error which is too wide to be desirable. It is not therefore necessary to give the comparison in a tabular form.

A comparison was next made between the observed tides at St. John, and the tide tables for Eastport; the nearest port in the United States for which tide tables are published. This comparison extended over eight months in 1893; and after omitting a few exceptional values, the difference in time of high water was found to range from 29 minutes earlier to 37 minutes later; which is also too wide a variation to be considered

satisfactory as a basis of computation. It is also unnecessary to give this comparison in a tabular form.

It was accordingly thought better to wait until the tidal record at St. John itself could be submitted to analysis; rather than to issue tables which would embody errors corresponding with these variations. Hence although the early record began in 1893, the first tide tables issued for St. John were for the year 1898. The advantage of this course is now apparent; as the tide tables now issued by this Survey, prove to be much more correct than could be obtained by either of the above methods; although they are as yet based upon two years only of tidal record. This also attests the value of St. John as a port of reference, owing to the unusual regularity of its tides.

Tide Tables of U.S. Coast Survey.—Up to 1896, the method given in these tables was to compute the St Jchn tide from Eastport, by a small constant difference in time. The difference first given was 2 minutes, which was afterwards altered by 5 minutes. Subsequently, since 1897, the tide at St. John has been referred to Liverpool, England;

the difference in time for high water being 22 minutes to be added.

To test the result of the present method of referring these tides to Liverpool, a comparison was made for the month of September, 1897. The time of high water computed by the difference given, was compared with the time of the tide at St. John as observed, the result being as follows:—

Extreme variation between the time of H. W. as found by this method, and the actual time as observed, 1 h. 02 m. early to 0 h. 16 m. late.

Average error during this month, 17 minutes.

It would thus appear that little if any improvement is secured by this method, over the old plan of computing by a constant difference from Brest. Also, to ascertain whether this reference to Liverpool gave any advantage over the former method in the United States tide tables, of referring the St. John tide to Eastport, a further comparison was made for this month of September, 1897. The time of high water at St. John, computed from Eastport by the difference formerly given, as above, was compared with the tide as there observed. The average error during this month was thus found to be only 9 minutes; from which it would at least appear that no advantage has been secured by referring the St. John tide to the more distant port of Liverpool, instead of to Eastport. The reason for the preference appears to be that the Liverpool tide tables are based upon a record extending over seven years, whereas the tides for Eastport are calculated from a tidal record of a single year.

In order to show for comparison the actual variation which may be expected between two neighbouring places, such as St. John and Eastport, distant 60 miles, the result of the simultaneous observations of 1898 may be cited. These extend over two and a half months, from the middle of August to the end of October. After omitting three days in October on which there was disturbance from a heavy storm, the tides as observed simultaneously at St. John, and at Welchpool on Campobello Island opposite Eastport, are found actually to vary as follows:—

Extreme variation of the difference in the time of high water as observed at the two places: from 10 minutes early to 10 minutes late, as compared with the average

difference in time as found from the whole series of observations.

Mean variation from the average difference, $3\frac{1}{2}$ minutes; during one lunar month from August 17 to September 16. This is given for one month only, to correspond with all the other comparisons, which are also for one month.

Tidal Survey tables.—These are based upon the harmonic analysis of two years of the tidal record at St. John itself. To test their accuracy, the time of high water in the tables was compared with the tide as observed during one month, from July 18 to August 18, 1898. This comparison is given as Table B. herewith; the result when summarized being as follows:—

Extreme variation between the predicted time of H. W. in the tide tables, and the actual time as observed: 16 m. early to 5 m. late.

Average variation during this month, 6 minutes.

This shows an improvement in accuracy of 65 per cent as compared with the method at present given in the United States tide tables; as well as a distinct improvement over the method of computing from Eastport.

QUEBEC.—The Montreal Harbour Commissioners have issued tide tables for Quebec for a number of years back; and in the absence of better data, these were computed by adding a constant difference of 4 h. 36 m. to the time of the tide as given in the tide tables for London Bridge. A comparison of these tables with the observed tides at Quebec, during the month of August, 1894, shows the following error in the time of high water:—

Extreme variation between the time of H. W. as given in these tables, and the actual time as observed: 1 h. 06 m. early to 0 h. 28 m. late.

Average error in the tables during the month, 17 minutes.

Tide Tables of U. S. Coast Survey.—In the comprehensive tide tables issued by the United States Survey since 1896, the method of obtaining the time of high water at Quebec is to subtract the constant difference 10 h. 05 m. from the time of the tide at Rangoon, Burma. A comparison of the time of high water as computed in this way, with the observed tide at Quebec, for the month of June, 1897, gives the following result:—

Extreme variation between the time of H. W. as found by this method, and the actual time as observed: 14 m. early to 54 m. late.

Average error during this month, 22 minutes.

It would appear from this average error, that no improvement is secured by this method, as compared with the old plan of adding a constant difference to the time of high water at London Bridge.

Tidal Survey tables.—These are based upon two years of tidal record at Quebec. The time of high water in the tables was compared with the tide as observed during one month, from July 18 to August 18, 1898; the comparison being given as Table C. herewith. The result when summarized is as follows:—

Extreme variation between the predicted time of H. W. in the tide tables, and the actual time as observed: 26 m. early to 3 m. late.

Average error during this month, $12\frac{1}{2}$ minutes.

This indicates the improvement already secure 1 by basing tide tables upon observations at Quebec itself, as compared with the old method of computing from London Bridge, which was in use up to 1896, when tide tables for Quebec were first issued by the Tidal Survey, and were adopted by the Montreal Harbour Commissioners. This improvement is equivalent to a decrease in error of 26 per cent. The improvement in accuracy is even greater than this, when compared with the method in the United States tide tables, which is still given in the tables for 1900. Although the comparisons are made for different months, they nevertheless show that the Tidal Survey tables are distinctly superior in accuracy to tide tables computed in either of the other ways indicated.

It may seem unsatisfactory that tide tables based upon two years of direct observation still present so appreciable an error as the above average shows; an error twice as great as at St. John or Halifax. This must be attributed to the irregularities in a tide at the head of a long estuary, which are probably due in some measure to wind disturbance. In such circumstances, more than two years of tidal record are required to eliminate the irregularities. Several additional years of tidal record have been obtained at Quebec, since the original analysis was made which forms the basis of the tide tables at present; but the comparatively small sum required for the analysis of further record, could not be afforded out of the appropriation for this Survey, during the last few years, for the improvement of the basis of the tide tables.

CHARLOTTETOWN AND PICTOU.—The region of Northumberland Strait in which these ports are situated, is now referred to the principal tidal station at St Paul Island, as explained fully in a previous report. The method used is first to deduce the time of the tide at Pictou from St. Paul Island, by means of a series of variable differences; and the tides at other harbours in the strait are then computed from Pictou. We may thus take Pictou itself as the test port for this region, in examining the accuracy of tide tables.

In the only other publications and almanacs in which tide tables for this region appear, the method employed is to refer the tides at Pictou to some Atlantic harbour,

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by means of a constant difference in time. This leads to serious error, chiefly because

of the large diurnal inequality in the tides in this strait.

In Belcher's Almanac, which is extensively used throughout the provinces bordering on this strait, a tide table for Pictou is given. A comparison was made for the month of July, 1896, between the time of high water in this table, and the tide at Pictou as recorded on a self-registering gauge. The result shows the following wide range of error in this tide table:—

Extreme variation between the time of H. W. as given, and the actual time as

observed: 1 h. 13 m. early to 1 h. 35 m. late.

Average error in the tables during this month, 45 minutes.

Tide Tables of U.S. Coast Survey.—In these tables, the tide at Pictou is referred to Sandy Hook at the entrance to New York harbour. The difference for the time of high water at Pictou, as revised in 1896, is given as 2 h. 34 m. to be added to the time at Sandy Hook. A comparison was made for a period of one month, July 16 to August 16, 1897, between the time of high water at Pictou computed in this way, and the time as there observed, with the following result:—

Extreme variation between the time of H. W. as found by this method, and the

actual time as observed: 1 h. 45 m. early to 1 h. 11 m. late.

Average error during this month, 38 minutes.

In both these instances, it is the method used that is at fault; because it is not possible to refer the tides of Northumberland strait to an Atlantic port by a constant difference in time, without a large error resulting; on account of the essential difference in the nature or type of the tide. This is clear from the following table, which gives the error in the time of individual tides, when computed by the method given in the United States tables. The alternation from early to late, is a feature of diurnal inequality, which is most conspicuous when the moon's declination is high.

| Tides at Pictou, N.S. | | or in t High V | | | Moon's declination. |
|------------------------------|-----|-------------------|----|-----|------------------------|
| (Northumberland Strait.) | Ear | rly. | La | te. | |
| | н. | м. | н. | м. | |
| 97. Sun., July 25; afternoon | - | 34 | 1 | 11 | Maximum north; on 25th |
| Tues. 27; morning | 1 | 42 | 0 | 40 | |
| " " 27; afternoon | 1 | 22 | 0 | 43 | |
| " 28; afternoon | | 23 | 0 | 14 | |

Tidal Survey tables.—After observations of the tide were obtained in this region in the summer of 1896, a number of trial calculations were made, to arrive at the best method by which the above source of error could be avoided. The method above indicated was finally adopted. The improvement thus obtained appears from a comparison made for the month of August, 1897; in which the time of high water as now calculated for the Tidal Survey tables, is compared with the tide as observed at Pictou. In the following summary of the result, three tides which are disturbed by the wind are omitted.

Extreme variation between the predicted time of H. W. in the tide tables, and the actual time as observed: 35 m. early to 30 m. late.

Average variation during this month, 15 minutes.

This shows an improvement in accuracy of 61 per cent as compared with the United States tide tables, and an improvement of 67 per cent as compared with Belcher's

Almanac. The tide tables thus become of practical value; as is attested by Mr. H. M. Mackay, a resident of Pictou, and formerly an assistant in this Survey, who superintended the tidal observations in this region in 1896. He thus writes in September last:—'You will be pleased to know that the tide tables for Pictou are regarded as very reliable. Those formerly in use, were, as might be expected, quite unsatisfactory.' It is also reported by residents of Charlottetown, that the same holds with regard to the tide tables for that port; these being computed from the Pictou tides.

Further improvement in the accuracy of these tables can only be obtained by the analysis of additional tidal record from St. Paul Island, on which they ultimately depend. This is the more needful, because the tides there have not a large range, and are consequently the more affected by wind disturbance; and a longer period of observation is therefore required as a basis of calculation. It has also been found best to refer to that station the tides in a large section of the south-western portion of the Gulf of St. Lawrence; and these tides would thus obtain the advantage of any improvement secured, as well as Northumberland Strait.

TIDES ON THE LOWER ST. LAWRENCE REFERRED TO QUEBEC.

The desirability of obtaining the best tidal data possible in this region need not be enlarged upon, not only because of the importance of the tides themselves to navigation, but also to obtain an adequate basis for the examination of the strong tidal currents on a route traversed by so large a volume of commerce.

On account of the discontinuance of the tidal station at South-west Point, Anticosti, a very thorough examination was made of the difference in the time of the tide based upon the simultaneous records obtained from the three principal stations at South-west Point, Father Point and Quebec, at the extreme ends and the middle of the estuary, a distance of 450 miles.

The time of the tide at South-west Point and Father Point can now be deduced from the Quebec tide tables by means of constant differences, which have been derived from a long series of simultaneous observations, as explained in previous reports. tide tables for Father Point are computed from the Quebec tables in this way, one difference being used for high water and another for low water. With regard to the accuracy of the result as thus obtained, the point of importance is to know how far the differences in time for individual tides will vary from the average value, which is used as a constant difference. The range in the difference for high water between Father Point and Quebec is 56 minutes during the course of the year, and the range in the difference for low water is 1 hour 19 minutes. The extreme variation from the average value may be taken as half of this range in each case; and the limit of error in the present tide tables for Father Point, based upon the averages, is thus 28 minutes for high water and 40 minutes for low water. It is to be understood, however, that this is the limit; as usually the tides will be much nearer than this to their average value, especially in the summer season; and it is only occasionally that these more exceptional values will occur.

With a view to allow in the calculations for this variation in the difference, and thus to reduce the error, much labour has been expended, the object being to arrive at such relations between these three St. Lawrence stations as would enable the variation in the difference to be reduced to law. The investigations made need not be given here even in outline, as they may be considered technical. It may therefore be sufficient to say that no one law could be discovered under which a series of variable differences could be constructed, to allow for the greater part of the error resulting from this variation.

The outcome of the investigation was to show that improvement in the present method of the use of constant differences will only be secured when the means are available to make an analysis of the Father Point record itself, and to base tide tables directly upon this. It will probably be found that an improvement will then be obtained by making Father Point, instead of Quebec, the port of reference for other points in the open estuary for some distance above it. Also in the other direction, an improvement in accuracy as far as Anticosti Island and its vicinity will be obtained.

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The differences show that the outstanding error in the time of the tide at South-west Point would thus be reduced by 20 per cent.

The analysis of the tidal record for Father Point itself, would be in accord with the modern view taken by the most eminent authorities on tidal questions. When the means available for this Survey are so limited, however, that the analysis of tidal record for the principal harbours of the country has to be deferred from year to year, the hope of doing similar work for Father Point would seem a long way off. It is because of this that the exhaustive examination into the tidal relations on the Lower St. Lawrence, above referred to, was undertaken, in the hope of securing improvement in the meantime.

BAY OF FUNDY .- TIDAL DIFFERENCES.

In the summer of 1898, eight secondary stations were established around the Bay of Fundy, in order to extend the usefulness of the tables for St. John, N.B., to the whole of this region. The extent of the region is 210 miles, from Yarmouth to Moncton.

The reasons for the selection of the stations chosen, have been explained in the last report; as well as the levels of the tide as ascertained by the observations. The station at Welchpool on Campobello Island, opposite Eastport, Maine, affords a valuable connection between the work of this Survey, and the United States Coast Survey. At the four stations in the lower part of the bay, Yarmouth, Westport in Grand Passage, Digby, and Campobello, the whole range of the tide was obtained; from which results for both high and low water can be deduced. At the other four stations in the upper part of the bay, Windsor, Parrsboro', Hopewell Cape, and Moncton, only the upper part of the tide was obtained; as a record of the whole tide could not be secured where the range is so great, without very largely increasing the expenditure.

In deriving tidal differences from these observations, it was first necessary to ascertain whether any part of the region at the mouth of the Bay of Fundy, could better be referred to Halifax than to St. John as its port of reference. With this object, a trial comparison was made for a period of one month, between the time of high water at Yarmouth, at the mouth of the bay, and Halifax on the one hand and St. John on the other. The month selected was July 18 to August 18, 1898; and the condensed result

of the comparison is as follows, when reduced to the same standard time:-

Yarmouth and Halifax. Difference in time of high water varies from 2 h. 26 m. to 3 h. 0 m. later; showing a range of 34 minutes.

Yarmouth and St. John. Difference in time of high water varies from 1 h. 01 m. to

1 h. 14 m. earlier; showing a range of only 13 minutes.

It thus appears that if the tide at Yarmouth is referred to St. John rather than to Halifax, much greater accuracy can be secured; as the error corresponding to the above variation, is only one-third as much.

The tide on the south-eastern coast of Nova Scotia as far as Cape Sable, can well be referred to Halifax; but from that cape to Yarmouth it changes rapidly in character, though the distance is only fifty miles. The greater variation in the difference of time with Halifax, in the above comparison, is due to modification in the diurnal inequality in the tide, as between Halifax and Yarmouth. It may therefore be concluded from this comparison, that the tides throughout the Bay of Fundy above Yarmouth, can best be referred to St. John.

In the earlier part of the record at some of the secondary stations of 1898, there is a little uncertainty in the accuracy of the time used. The resulting tidal differences are therefore based upon the parts of the record which are thoroughly trustworthy, as follows:—

Yarmouth, N.S.—From July 15 to December 31; affording a series of 319 simultaneous observations for the difference in time of high water with St. John; and 314 for low water.

Westport, in Grand Passage.—From August 8 to December 29, with an interruption of twenty days from November 24; affording 195 differences for H. W. and 212 for L. W.

Digby.—From August 3 to December 18; affording 238 differences for H. W. and 244 for L. W.

Campobello Island. (At Welchpool.)—From August 11 to November 14; affording 176 differences for H. W. and 162 for L. W.

Windsor, N.S.—From August 18 to October 12; affording 88 differences for the time of H. W.

Parrsboro'.—From July 24 to October 13; affording 148 differences for the time of H. W.

Hopewell Cape.—From July 30 to November 15; affording 203 differences for the time of H. W.

Moncton.—From August 11 to November 18; affording 180 differences for the time of H. W.

The Bore.—A number of observations of the time of arrival of the tidal bore at Moncton, were also secured, by the method of siphoning into a tide-well from the low-water channel of the river, as described in the last report. The arrival of the bore was thus recorded automatically on the tide gauge. The time as thus recorded was carefully compared and checked, by means of such direct observations as were obtained during the season; and any that were affected by irregularity in the working of the siphon, were thrown out. A set of 145 reliable observations was thus obtained; extending from August 24 to November 14.

It was discovered that the relation with the tide at St. John is more nearly constant, if the difference in time is taken between the arrival of the bore at Moncton and the next following high water at St. John. This is the more natural way, as the arrival of the bore corresponds in time with half tide at Moncton; and the following high water at St. John is caused by the summit of the same tidal undulation.

The differences given below are in standard time, and thus show the true differences in absolute time. They are derived from a tabulation of the observations in accordance with the moon's phases.

Time of arrival of the bore at Moncton, before the time of high water at St. John; from 145 observations:—

At Spring tides, 2 h. 09 m.

At Neap tides, 2 h. 33 m.

Average throughout the month, 2 h. 21 m.

It may be interesting to note that from twenty-three occasions during the season, on which the arrival of the bore was directly timed, the average value found was the same as above; namely, 2 h. 21 m. before high water at St. John.

This determination enables the time of the arrival of the bore to be found from the St. John tide tables. The difference between the values for spring and neap tides respectively, serves also to show the relation between the vulgar and the mean Establishment. This is a valuable indication with regard to the nature of the tide throughout the Bay of Fundy; being derived from observation at the extreme head of the bay.

Tidal differences.—The results obtained for the ports at which the tidal stations were placed, have been published as a slip accompanying the tide tables for 1900, already issued. In addition to the tidal differences which enable the time of the tide to be found, the available draught of water at spring and neap tides is given, for points in the upper part of the bay.

A more complete set of tidal differences for the whole Bay of Fundy will be prepared before the next tide tables are printed; based upon a comparison with the Establishments as already determined by the Admiralty for intermediate points. The observations now obtained, afford a valuable check upon these; and place the time of the tide throughout this bay upon a reliable basis.

The importance to navigation of a correct knowledge of the tide in this bay is evident, when the range of the tide is so great. In the upper part of the bay, navigation may be said to be entirely dependent on the tide, as the wharves do not extend beyond the half-tide mark, and vessels can therefore only reach their berths at high water.

I have the honour to be,

Your obedient servant,

W. BELL DAWSON,

In Charge of Tidal Survey.

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TABLE A.

Halifax.—Comparison of Tide Tables with Tides as observed.

Tide Tables based upon five years of tidal record; 1851, 1852, 1860, 1861 and 1896; compared with tides as recorded by tide gauge.

| т. | | D (| Нісн | WATER. | Low | WATER. | |
|--------------|----|-----------------|--------------------|-----------------------------|----------------------------------------------------|-----------------------------|------------------|
| Date 1898 | | Day of week. | Time in Tables. | Variation from actual time. | Time in Tables. | Variation from actual time. | Moon. |
| | | | Н. М. | Minutes, | Н. М. | Minutes. | |
| July | 18 | M. | 8 00 | 2 early. | 2 04 | 14 late. | |
| _ | 19 | Tu. | 19 55 8 33 | 10 late. 2 early. | 14 08 2 39 | 10 " | New Moon. |
| 11 | 19 | | 20 31 | 6 " | 14 43 | 11 " | |
| 19 | 20 | W. | 9 07 | 3 " 3 late. | 3 10 | 8 " | |
| 11 | 21 | Th. | 21 08 9 42 | 3 early. | 15 16 3 39 | 10 " 5 " | |
| | 99 | 173 | 21 46 | 2 late. | 15 51 | 4 11 | |
| ** | 22 | F. | 10 18 22 25 | 2 | 4 09 16 30 | 1 3 early. | |
| 11 | 23 | Sa. | 10 56 | 1 " | 4 42 | 3 ,, | |
| 11 | 24 | Sun. | 23 06 11 37 | 8 " | $17\ 14 \\ 5\ 21$ | 1 late. 6 early. | |
| | ĺ | | 23 50 | 5 " | 18 03 | 1 late. | |
| 11 | 25 | М. | 12 21 | 11 late. | 6 06 18 57 | 8 " | |
| | 26 | Tu. | 0 40 | 5 " | 6 58 | 8 | First Quarter. |
| 11 | 27 | w. | 13 09 1 42 | 11 " | 19 58 8 00 | 8 " | - |
| " | | | 14 05 | 3 " | 21 02 | 5 " | |
| ** | 28 | Th. | 2 48 15 08 | 3 " | 9 04 22 03 | 6 " | |
| " | 29 | F. | 3 58 | 2 early. | 10 08 | 5 " | Maximum declina- |
| | 30 | Sa. | 16 14 | 2 " | 23 03 11 11 | 3 " 4 early. | tion south. |
| " | 30 | Da. | 5 10 17 19 | 2 late. | | 4 early. | |
| 11 | 31 | Sun. | 6 14 | 14 " | 0 01 | 2 late. 4 early. | Dania |
| Aug. | 1 | M. | 18 20 7 09 | 3 " | $\begin{array}{ccc} 12 & 12 \\ 0 & 55 \end{array}$ | 3 late. | Perigee. |
| _ | | m | 19 15 | 0 " | 13 09 | 3 early. 3 late. | Full Moon. |
| " | 2 | Tu. | 7 56 20 06 | 3 early. | 1 46 14 04 | 9 " | |
| 11 | 3 | w. | 8 41 | 3 " | 2 36 | 5 early. 16 " | |
| 11 | 4 | Th. | 20 54 9 25 | 3 " | 14 57 3 25 | 16 " 6 " | |
| | _ | | 21 40 | 3 " | 15 49 | 4 " | |
| 11 | 5 | F. | 10 08 22 25 | 4 late. 6 early. | 4 13 16 40 | 7 " | |
| " | 6 | Sa. | 10 50 | 14 " | 5 00 | 2 " | |
| " | 7 | Sun. | 23 11 11 33 | 7 " | 17 30 5 48 | 7 10 late. | |
| | | | 23 59 | ni " | 18 22 | 10 early. | |
| " | 8 | М. | 12 19 | 4 early. | 6 38 19 19 | 17 late. 3 early. | |
| н | 9 | Tu. | 0 49 | 7 " | 7 32 | 2 late. | Last Quarter. |
| 11 | 10 | W. | 13 09 1 44 | 13 " | 20 22 8 30 | 3 early. 3 late. | |
| " | | - | 14 05 | 10 " | 21 27 | 1 2 1 | |
| 11 | 11 | Th. | 2 52 15 08 | 2 , | 9 33 22 30 | 5 early. 14 late. | Maximum declina- |
| 11 | 12 | F. | 4 27 | 7 late. | 10 84 | 3 " | tion north. |
| ,, | 13 | Sa | 16 16 | 9 " | 23 26 11 28 | 24 " | A |
| " | 10 | Sa | 5 30 17 18 | 10 " | | 0 " | Apogee. |
| 11 | 14 | Sun. | 6 18 | 5 " | 0 13 | 15 late. | |
| " | 15 | M. | 18 09 6 58 | 7 " | 12 18 0 54 | 3 " 18 " | |
| | 16 | | 18 53 | 12 " | 13 02 | 10 " | |
| 11 | 16 | Tu. | 7 34 19 33 | 4 " 9 early. | 1 31 13 41 | 14 " | |
| и., | 17 | W. | 8 08 | 1 late. | 2 04 | 16 " | New Moon. |
| ** | 18 | Th. | 20 12 8 41 | 2 " 9 early. | 14 17 2 35 | 12 " | |
| | ' | | 20 50 | 10 late. | 14 52 | 2 "7 " | |

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TABLE B.

St. John, N.B.—Comparison of Tide Tables with Tides as observed.

Tide Tables based upon harmonic analysis of two years of tidal record, compared with observed tides as recorded by self-registering tide gauge.

| Date | | D f | Нісн | WATER. | Low | Water. | 16 |
|------|----|--------------|-----------------------------------------------------|-----------------------------|------------------------------------------------------|-----------------------------|-----------------------------|
| 1898 | | Day of week. | Time in Tables. | Variation from actual time. | Time in Tables. | Variation from actual time. | Moon. |
| July | 18 | М. | H. M. 11 40 23 42 | Minutes. 1 late. 7 early. | H. M. 5 26 17 40 | Minutes. 8 early. 8 " | New moon. |
| 11 | 19 | Tu. | | | 6 00 | 12 " | noon. |
| " | 20 | w. | $\begin{array}{cc} 12 & 14 \\ 0 & 15 \end{array}$ | 0 early. | $\begin{array}{cc} 18 & 16 \\ 6 & 32 \end{array}$ | 6 " | |
| | 21 | Th. | $\begin{array}{cc} 12 & 46 \\ 0 & 49 \end{array}$ | 0 " | 18 50 7 04 | 6 " | |
| | 22 |] | 13 17 | 3 " | 19 23 | 8 " | |
| ** | | F. | 13 50 | 9 " | 7 38 19 57 | 16 " | |
| " | 23 | Sat. | $\begin{array}{cc}2&04\\14&27\end{array}$ | 11 " | 8 15 20 34 | 19 " | |
| 11 | 24 | Sun. | 2 45 15 08 | 13 " | 8 55 21 15 | 19 " | |
| | 25 | М. | 3 29 | 15 " | 9 39 | 21 " | |
| ** | 26 | Tu. | 15 53 4 18 | 16 " 16 " | $\begin{array}{ccc} 22 & 03 \\ 10 & 29 \end{array}$ | 24 " 15 " | First quarter. |
| " | 27 | w. | $\begin{array}{ccc} 16 & 43 \\ 5 & 15 \end{array}$ | 11 " | 23 00 11 25 | 19 " 16 " | |
| | 28 | Th. | 17 39 | 10 " | | | |
| . " | | | $\begin{array}{cc} 6 & 17 \\ 18 & 42 \end{array}$ | 7 " | $\begin{array}{cc}0&03\\12&28\end{array}$ | 14 early. 11 " | |
| " | 29 | F. | $\begin{array}{cc}7&21\\19&50\end{array}$ | 13 " | $\begin{array}{cc} 1 & 10 \\ 13 & 36 \end{array}$ | 14 " | Maximum declination south. |
| ** | 30 | Sat. | 8 27 20 56 | 12 " | $\begin{array}{ccc} & 16 \\ & 14 & 43 \end{array}$ | 13 ,, | Vion south |
| 11 | 31 | Sun. | 9 30 | 14 " | 3 19 | 15 | |
| Aug. | 1 | M. | $\begin{array}{ccc} 21 & 57 \\ 10 & 29 \end{array}$ | 5 " | 15 47 4 17 | 12 | Perigee. |
| ,, | 2 | Tu. | 22 55 11 24 | 6 " | $\begin{array}{ccc} 16 & 44 \\ 5 & 12 \end{array}$ | 15 " | Full moon |
| | 3 | w. | 23 47 | 5 | 17 37 | 14 " | |
| ,, | | | 12 17 | 7 early. | $\begin{array}{cc} 6 & 05 \\ 18 & 27 \end{array}$ | 14 " | |
| ** | 4 | Th. | 0 39 13 08 | 3 " | 6 56 19 16 | 14 " 15 " | |
| 11 | 5 | F. | $\begin{array}{ccc} 1 & 28 \\ 13 & 57 \end{array}$ | 4 " | 7 44 20 04 | 13 " | |
| ** | 6 | Sat. | 2 16 | 12 " | 8 31 | 13 " | |
| | 7 | Sun. | 14 45 3 06 | 8 " | $\begin{array}{ccc} 20 & 53 \\ 9 & 20 \end{array}$ | 14 " 12 " | |
| ** | 8 | M. | 15 34 3 59 | 2 " | $\begin{array}{ccc} 21 & 45 \\ 10 & 11 \end{array}$ | 14 " | |
| ,, | 9 | Tu. | 16 26 4 55 | 3 " | 22 39 11 06 | 8 " | Last quarter. |
| | | w. | 17 21 | 0 " | 23 36 | 6 " | Last quarter. |
| ** | 10 | | 5 53 18 19 | 4 " | 12 05 | 0 early. | ! |
| 11 | 11 | Th. | $\begin{array}{ccc} 6 & 54 \\ 19 & 22 \end{array}$ | 4 " 1 late. | $\begin{array}{cc} 0 & 37 \\ 13 & 09 \end{array}$ | 4 " 5 late. | Maximum declina tion north. |
| ** | 12 | F. | $\begin{array}{ccc} 7 & 57 \\ 20 & 22 \end{array}$ | 0 " | 1 40 | 6 early. 3 late. | Con Moren. |
| ** | 13 | Sat. | 8 57 | 5 " | $\begin{array}{ccc} 14 & 12 \\ 2 & 40 \end{array}$ | 6 early. | Apogee. |
| " | 14 | Sun. | $\begin{array}{cc} 21 & 16 \\ 9 & 49 \end{array}$ | 0 " | 15 08 3 31 | 0 " | |
| " | 15 | M. | $\begin{array}{ccc} 22 & 03 \\ 10 & 33 \end{array}$ | 1 early. | 15 56 4 16 | 13 " | İ |
| | 16 | Tu. | 22 43 | 1 " | 16 38 | 4 ,, | |
| " | | | $\begin{array}{ccc} 11 & 10 \\ 23 & 19 \end{array}$ | 1 late. 1 early. | $\begin{array}{cc}4&57\\17&16\end{array}$ | 12 " 5 " | |
| " | 17 | W. | $\begin{array}{ccc} 11 & 43 \\ 23 & 52 \end{array}$ | 0 " | 5 33 17 51 | 7 " | New moon. |
| •• | 18 | Th. | 12 15 | | 6 07 | 10 " | |
| | | | 12 10 | 2 early. | 18 24 | 7 " | |

observed tides as recorded by self-registering tide gauge.

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TABLE C.

Quebec.—Comparison of Tide Tables with tide as observed.

Tide Tables based upon harmonic analysis of two years of tidal record, compared with

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TABLE D.

SUMMARY of Tidal Record obtained at Principal Stations; showing also how far it is worked up.

| Principal Tidal | Doing | TIDAL RECORD OBTAINED. | FOR TIDAL D | TPFERENCES. | FOR TIDAL DIFFERENCES. FOR HARMONIC ANALYSIS. | IC ANALYSIS. | Romarky |
|--------------------------------|----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|------------------------------------|-----------------------------------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------|
| 1 | rection: | Date. | Time of High Water Tabulated, | Time of Low Water Tabulated. | Tabulated in Hourly Ordinates. | Analysis made. | |
| Quebec | . Year 1894 1893, N 1895 1895, Ja 1896 1896, F 1898 1897, R | ov. 7; to 1895, Jan. 15. nn. 15; to 1896, Jan. 31 eb. 1; to 1897, Jan. 31 eb. 1; to 1898, Jan. 31 eb. 1; to 1899, Jan. 31 | Done | Done | Done Done Done Done. | Done | Tide Tables for Quebec, up to 1900, are based upon these two years of analysis. |
| Halifax | Year 1896. | Year 1896. [1895, Oct. 15; to 1896, Nov. 30 | Done | | Done | Done | Tide Tables for Halifax are based upon this one year; and upon old record. |
| St. John, N. B | Year 1893) to 1894 1895 1895 1896 1897 | 1892, Dec. 5; to 1894, Mar. 12. Gauge column renewed; March, 1894. 1894, April 30; to 1895, May 15. 1895, May 15; to 1897, May 15. 1896, May 15; to 1897, May 15. 1897, May 16; to 1898, May 16. | Done | Done. | | Done | (Unreliable, Gaugenotworking satisfactorily. Tide Tables for St. John are based upon these two years of analysis, at present. |
| St. Paul Island (Cabot Strait) | Year 1895 1894, " 1896 1895, " 1897 1896, " 1898 1897, " 1898 1897, | Sept. 25; to 1894, Jan. 21 January.—Clock of Gauge failed. August.—Improved Gauge put in. Aug. 29; to 1895, Feb. 4 February.—Gauge carried away; instrument lost. September.—Rebuilt. Sept. 15; to 1896, Nov. 30 Dec. 1; to 1896, Nov. 30 Oct. and Nov.—Reord unreliable. Dec. 11; to 1898, Dec. 31 Jan. 1, and onward. | Done Done Done Done Done Done Done Done | Done Done Done Done Done | Done | | (Record unsatisfactory.) This analysis furnishes basis of Tide Tables for North-umberland Strait, and adjoining regions. |

| Father Point | Year 189 " 189 " 189 | Xear 1895. 1895, Feb. 4; to 1896, Jan. 6 " 1896. 1886, Jan. 6; to 1897, Jan. 25 " 1897. 1897, Jan. 25; to 1898, Jan. 31 " 1898 1898, Jan. 31, and onward | Done | Done (LC | Done (Lost on S.S. "Labrador") | The difference in time of H. W. ") and L. W. from Quebec, is used as a basis for Tide Tables for Father Point. |
|---------------------------------------|------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| South-west Point (Anticosti) | Year 1895. 1894, " 1896. 1895, " 1897. 1896, " 1898. 1898, | July I7; to 1894, Sept. 17 Nov. 12; to 1895, Oct. 7 Oct.—Inlet fittings improved. Nov. 11; to 1896, Oct. 26 Oct. 26; to 1897, Dec. 25 Dec.—Gauge damaged by storm. Feb. 3; to 1899, Jan. 16 —Inlet partially choked; record unreliable. April.—Station closed. | PartDone | Part | | (Early record, unsatisfactory.) The difference in time of H. W. from Quebec, is used as a basis for Tidal Differences in the Lower St. Lawrence. |
| Forteau Bay (Strait of Belle Isle) | Year 1899 1899 1899 1899 1899 | Year 1895. 1894, Aug. 11; to 1895, Sept. 7. 1896. 1845, Sept. 19; to 1895, Sept. 19. 1896. 1895, Sept. 19; to 1897, Jan. 9. 1897. 1897. May 15; to 1897, Nov. 18. Nov.—Gauge damaged by storm. July.—Gauge effitted; and protected by new crib. work in September. | Part | <u> </u> | (Lost on S. S. "Labrador" | The time of H.W. has been used for comparison with the current in the Strait; and for trial Tidal Differences with other ports. |
| Yarmouth, N. S | | Year 1898. 1898, June 25; to 1899, Feb. 2. Gauge not heated. Record in Feb. and Mar. not obtained because of frost. " 1899. 1899, Mar. 10, and onward | Part | Part | | The time of H.W. and L.W. used for comparison with other ports, for Tidal Difference. |

PART II

STATEMENT OF EXPENDITURE—STATEMENT OF REVENUE—METEOR—OLOGICAL SERVICE—MAGNETIC OBSERVATORIES—SIGNAL SERVICE—BOARD OF EXAMINERS OF MASTERS AND MATES—LIVE STOCK SHIPMENTS—STATEMENT OF WHARFS—LIFE—BOAT STATIONS—STATEMENT OF SICK MARINERS'.

DUES—MESSENGER PIGEONS—REWARDS FOR HUMANE SERVICE—STEAMBOAT INSPEC—TION—LIST OF LIGHT-KEEPERS AND LIGHT STATIONS.

APPENDIX No. 1.

GENERAL SUMMARY of Expenditure for Fiscal Year ended June 30, 1899.

| Service. | Amount. | Total. |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| | \$ cts | \$ cts |
| Ocean and River— Maintenance and repairs to Dominion steamers Construction of new steamer to replace "Stanley" Examination of masters and mates. Rewards for saving life, &c. Investigations into wrecks. Registry of shipping. Tidal service. Removal of obstructions in navigable rivers. Winter mail service. Marine biological station. Export cattle trade. | 145,270 7/ 143,365 2/ 3,568 2/ 7,049 0/ 982 1/ 966 4/ 5,186 3/ 745 4/ 4,709 1/ 2,757 8/ | |
| Lighthouse and Coast— Salaries and allowance of lightkeepers. Agencies, rents and contingencies. Maintenance and repairs to lights. Construction of lights. Signal service. Repairs to wharfs. | 206,592 54 15,618 34 250,541 04 64,705 64 6,067 44 1,392 66 | 5 3 8 |
| Observatory, Toronto New observatory, Agincourt Meteorological service Hydrographic survey | 2,762 19 2,222 42 68,163 49 13,664 99 | |
| Marine Hospitals— Treatment of sick and disabled seamen Shipwrecked and distressed seamen | 34,960 0- 2,393 24 | |
| Miscellaneous— Steamboat inspection | | 28,035 4 |
| FISHERIES. | | 1,020,154 9 |
| Salaries, &c. of fisheries, overseers and wardens. Sish-breeding. Sish-breeding. Sisheries protection service. Suilding fishways. Segal and incidental expenses. Anadian fishery exhibit. Syster culture. Sistributing bounty. Sistributing bounty. Sitcenses to United States fishing vessels. Sohn S. Hall. Q.C. Statuties to Wm. Wakeham \$500, Widow F. Ménard \$300, John Chisholm \$250, Mrs. R. Muirhead \$250, R. N. Venning \$750, Judge W. H. Wilkinson \$227, 25 | 95,278 5 34,522 5 104,743 2 876 2 861 0 904 8 4,261 3 5,034 7 398 7 1,100 0 | 7 7 3 5 6 1 3 3 1 1 5 - 2 250,258 5 |
| Unforeseen expenses. | 202 3 | |
| Carried forward | | 1,277,585 4 |

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| Service. | Amount. | Total. |
|---------------------------------------------------------------------------------|-----------|------------------------|
| Brought forward | | |
| Fisheries—Concluded. | | 1,277,989 47 |
| Behring Sea arbitration. Fishing bounty Civil government salaries contingencies | 61 496 16 | 3,802 62 159,459 00 |
| " contingencies | 11,407 81 | 72,833 97 |
| | | 1,513,481 06 |

A. W. OWEN,
Accountant.

F. GOURDEAU,
Deputy Minister of Marine and Fisheries.

APPENDIX No. 2.

STATEMENT of Revenue of Marine and Fisheries Department for the Fiscal Year ended June 30, 1899.

| Service. | Amount. |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| Casual revenue (sale shipping forms, \$103.75; sundries, \$5768.47) Capes mail service Dominion steamers Examinations masters and mates Fines and forfeitures. Harbours, piers and wharfs Cattle inspection Steamboat engineers' certificates. Tow barges, inspection of. | 8 cts. 5,872 22 242 42 12,370 74 4,486 50 207 40 9,006 61 2,082 52 910 00 130 00 |

A. W. OWEN,
Accountant.

F. GOURDEAU,

Deputy Minister of Marine and Fisheries.

APPENDIX No. 3.

METEOROLOGICAL SERVICE.

METEOROLOGICAL OFFICE,

Toronto, October 12, 1899.

Major F. Gourdeau,
Deputy Minister of Marine and Fisheries,
Ottawa

SIR,—I have the honour to submit the twenty-eighth annual report of the Meteorological Service of Canada, this report being for the fiscal year July 1, 1898, to June 30, 1899, with Appendices A and B, reports on the Quebec and St. John Observatories.

On June 30, 163 persons were in receipt of pay from the Meteorological Service for various duties performed in connection therewith. Part of this number devote the whole of their time to the work, others are occupied in observing during only a short portion of each day, and a third portion is employed only to attend to the display of storm signals when notified. In addition to those who are thus employed there are 254 voluntary observers scattered throughout the provinces who make regular meteorological returns to the Central Office without remuneration. The patriotic spirit displayed by these latter observers is much to be commended and it is with much pleasure that I place on record my acknowledgment of their valuable co-operation.

Since the issue of my last annual report the following stations have been opened:

BRITISH COLUMBIA.

Class II.—Nelson, A. H. Holdich.

- " II.—Vancouver, A. Ufford.
- ' II.—Clinton, J. E. N. Smith.
- " II.-Kelowna, F. E. R. Wollaston.
- " II.—Atlin, Robert Patrick.
- " II.—Matsqui Prairie, W. S. Maher.

NORTH-WEST TERRITORIES.

Class I.—York Factory, Alex. Milne.

- " I.—Mosquito Creek, A. M. McCaskill.
- " II .- Tagish Lake, H. Keenan.
- " II.—Selkirk, George Service.
- " II.—Red Deer, Robert Gray.
- " II.—Colles, A. R. Vickery.
- " II.—Saskatoon, Thos. Copeland.
- " II.—Crane Lake, D. N. Andrews.
- " III.-Dirt Hills, J. Nutter.
- " III.—Saltcoats, F. W. Anglin.
- " III.—Didsbury, J. B. Detwiler.
- " III .-- Innisfail, H. George.
- " III.—Coutts, J. G. Brymner.
- " III.—Sterling, Thos. Brandley.
- " III.—Estevan, E. H. Scott.

MANITOBA.

Class II.—Hillview, F. N. Stevenson.
"III.—Clear Springs, W. O. Laing.

ONTARIO.

Class I.—Guelph, J. B. Reynolds.

- " II.—N. Sister Rock, W. Weightman.
 " II.—Meaford, Rev. D. J. Caswell, B.D.
- " II.—Roy Mines, Roy Sweeney.
- " II.—Gosfield S., H. Smith.
- " II.—Dalhousie Mills, Rev. James Mackinnon.
- " II.—Listowel, T. Male.
- " III.—Lyndoch, John Dowswell.
- " III.—Uxbridge, John J. Reditt.
- " III.—Pentanguishene, W. R. Johnston.
- " III .- Port Burwell, M. J. Burwell.

The station at Barkerville has been enlarged from Class II. to Class I. Reporting Telegraph Station, and the same change has been made at New Westminster.

The stations at Spence and Zurich, Ontario (Class II.) have been closed from the

inability of the observers to report regularly.

The Departments of Agriculture of Ontario, Manitoba, the North-west Territories and British Columbia all co-operate with this service in the collection of meteorological data and have done much in securing the assistance of voluntary observers.

CENTRAL OFFICE.

It is with deep regret that we have to record the removal by death of Mr. J. W. Carroll, who entered this service in 1880 and who as computer had served this office so faithfully and well. Mr. Carroll had been ailing for some time, but the disease afflicting him did not develop until near the last, when he declined rapidly and passed away almost suddenly on August 3.

Another change in the staff of the Central Office was the appointment of Mr. F. N. Denison as assistant to Mr. E. B. Reed, meteorological official at Victoria, B.C., his knowledge of forecast work especially qualifying him for the position. The only addition to the staff was the appointment of Mr. W. D. Allan, and in order to keep abreast with the work, which is continually increasing, further assistance will be necessary.

The publication of the annual reports, monthly weather reviews, monthly and daily weather charts has continued with regularity, the latter charts, containing 10 a.m. forecasts of the weather, being posted at conspicuous places in Toronto in addition to 32 which are posted at various places in the province.

FORECASTS AND STORM WARNINGS.

As in the past, warnings of approaching storms for the use of shipping were transmitted by telegraph to the various lake and sea ports where signals were duly displayed. Daily forecasts were issued to the railways during the summer months as usual, these forecasts being indicated by signal discs carried by the trains. Warnings of expected heavy falls of snow were also issued to the railways during the winter months as heretofore. Special forecasts by telegraph and telephone, also meteorological data for use in the settlement of legal questions and other purposes were supplied upon application.

In addition to the storm warnings issued to 71 stations at which signals are displayed, they were also telegraphed to 20 stations of the signal service in the gulf for use

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of passing ships. Forecasts for 36 hours are also telegraphed at 10 a.m. to many lake and sea ports where they are posted, and these are published by most afternoon papers. As heretofore special information and forecasts were telegraphed each morning to St. John and Halifax, from which points bulletins of the expected conditions were disseminated as far as possible throughout the Maritime Provinces.

In accordance with instructions from the department arrangements were made early in the year for the issue of daily weather forecasts and storm warnings for British Columbia. This entailed a bi-daily synoptic chart at Victoria, and through the courtesy of the Chief of the United States Weather Bureau arrangements were made for telegraphing to Victoria twice each day reports from twelve United States meteorological stations on the Pacific Slope. In addition to these reports those from the Canadian stations in British Columbia are also telegraphed to Victoria. These reports though barely sufficient will be added to as other places further north in the Yukon and Alaska are placed in telegraphed communication with Victoria. The chief observer in British Columbia, Mr. E. Baynes Reed, was placed in charge with Mr. F. N. Denison as assistant, and the first forecasts were issued in November, 1898. Although material improvement will doubtless be made in these forecasts as the peculiar and diverse meteorological conditions of our Pacific Coast become better known, it is very gratifying to be able to state that already the work performed, as shown by comments thereon, is much appreciated by the people of British Columbia.

Table I.

The following table shows the total number of warnings issued and the percentage verified.

| Years. | Number Issued. | NumberVerified. | Percentage Verified. |
|--------------------------------------------|----------------|-----------------|-------------------------|
| 77 | 743 | 510 | 68.6 |
| 78 | | 673 | 78.3 |
| 79 | 712 | 591 | 83.0 |
| 80 | | 736 | 82.8 |
| 81 | 854 | 727 | 85.1 |
| 82 | | 658 | 78.2 |
| 83 | | 858 | 79.1 |
| 84 | | 663 | 83.2 |
| 85 | | 741 | 89.3 |
| 96 | | 799 | 88.2 |
| 87 | 1,093 | 972 | 88.9 |
| 88 | | 758 | 84.5 |
| 89 | | 926 | 81.3 |
| 90 | | 987 | 82.3 |
| 91 | 1,017 | 826 | 81.2 |
| 92 | | 888 | 80.7 |
| 93 | | 1,118 | 84.9 |
| 94 | 1,333 | 1,149 | 86.5 |
| 95 | | 1,168 | 89·4 |
| 96 | | 1,015 | 85·9 |
| | | 1,248 | (|
| 97 | 1,368 | 1.039 | 91.2 |
| 98 99, six months, January 1 to June 30 | 1,230 309 | 238 | 84·5 77·0 |

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| OTTAWA VALLEY. | | Percentage. | 88.83.1 78.55.1 78.55.1 | 81.7 90.7 76.0 78.8 91.0 86.7 | 0.98 |
|--------------------|-----------|--------------------|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|--------|
| | ied. | Number not. | 47.7.8 16. | 11 81 7 7 11 | 190 |
| | Verified | Number partly. | 8 1 2 3 9 9 | 11 0 21 1 8 9 | 195 |
| OTTAW | | Number fully. | 28:482 | 3825238 | 090 |
| | .ets. | Number of foreca | 911 901 103 801 801 113 | 828888 | 1 914 |
| ON. | | Percentage. | 887.12 86.0 86.0 | 28.08.08.09.09.09.09.09.09.09.09.09.09.09.09.09. | 84.1 |
| REGI | fed. | Number not. | <u>e4∃54x</u> | 102000 | 8 |
| AKE] | Verified | Number partly. | ====================================== | 22 13 19 19 | 976 |
| ar L. | | Number fully. | 25.88 88.88 88.88 | 288837 | 1006 |
| LOWER LAKE REGION. | sts. | Number of forecas | 22 22 23 23 25 25 25 25 25 25 25 25 25 25 25 25 25 | 107 108 108 111 117 | 1 9777 |
| | | Percentage. | 888.057.888 8.04.7.888 | 8883357 7.98357 | 3.60 |
| AY. | jed. | Number not. | <u>ထာဝဥ္ပဏ္</u> | 41 01 0 F | 1 1 1 |
| an B | Verified. | Number partly. | 228882 | 22722 | 210 |
| Georgian Bay. | | Number fully. | 88 84 7 7 8 8 8 8 9 8 9 8 9 8 9 8 9 8 9 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | 8 8 8 8 8 8 8 8 | 000 |
| 5 | sts. | Number of forecase | 125 125 110 110 124 | 101 86 105 111 115 | 1 061 |
| | , | Percentage. | 80.0 773.8 772.3 77.0 77.0 | 28 28 28 28 28 28 28 28 28 28 28 28 28 2 | 1 6 |
| JOR. | jed. | Number not. | 27.2488 | 40000° | 3 |
| LAKE SUPERIOR. | Verified | Number partly. | 8888451 | ₈₀ 8288 | 1 8 |
| AKE S | | Number fully. | 822228 | 363333 | 8 |
| J | .831 | Number of forecas | 102 102 120 120 110 110 | **** | 1 |
| | | Percentage. | 78.6 77.77.7 77.7.7 77.0 84.8 84.8 | 7869 816 816 816 816 816 816 816 816 816 816 | 1 9 |
| ÷ | ified. | Number not. | 96527-8 | 21 4 71 0 11 0 11 0 11 0 11 0 11 0 11 0 1 | |
| Manitoba. | Verif | Number partly. | 130 130 150 150 | 26 12 25 5 11 26 25 25 25 25 25 25 25 25 25 25 25 25 25 | 18 |
| Man | | Number fully. | 388885 | 252854 | 1 |
| | .es. | Number of forecas | 102 88 89 102 103 | <u> </u> | 1 |
| | | Момтн. | 1898. July August. September October November | January. January. February. March. Mayrll. May. June. | |

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| 1.5 | | | | | | **** | · ~ |
|---------------|-------------------------------------|-------------|---------------------|---------------------|----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| | | | Percentage. | | 87.8 79.8 86.2 88.3 | 885.98 855.98 856.98 | 83.38 |
| ed. | | Ę. | Number not. | | 35 E 7.48 | 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25 25 25 25 25 25 25 25 25 25 25 25 2 | 938 |
| Continued | Foral. | Verified | Number partly. | | 147 228 180 134 163 | 145 84 178 138 128 152 | 1,839 |
| &c.—C | | | Number fully. | | 823 695 699 617 812 784 | 620 725 599 635 687 687 | 8,384 |
| | | - | Number of forecasts | | 1,022 923 1,031 1,020 1,020 | 857 859 1.06 840 877 | 11,161 |
| ı dist | | | Регсептаве. | | 2588 777 79 719 719 719 719 719 719 719 719 | 778 757 75.58 75.58 75.58 75.58 | 81.2 |
| each | 퍞 | fed. | Number not. | | 2 7 4 8 0 1 E 1 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | E 2 2 4 2 2 | 2 |
| .i. | RITIM | Verified | Number partly. | | 424888 | 26 10 13 17 | 203 |
| nen | MAE | | Number fully. | | 828838 | 74 74 73 73 75 | 88 |
| fulfil | | | Number of forecasts | | 117 107 124 106 116 118 | 111 120 162 162 162 163 163 | 1,335 |
| age of | | | Регсептаве. | | 38 88 88 88 8 9 8 8 8 8 8 8 0 8 8 8 8 8 | 83 21.3 27.3 82.7 82.7 | æ æ |
| percentage of | fied. | Number not. | | 118218 | ငေးခံခံခဲ့တို့ | 108 | |
| per | UPPER ST. LAWRENCE VALLEY. VALLEY. | Verified | Number partly. | | 28 4 1 1 2 2 8 1 1 2 4 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 | \mathbf{x}_{∞} e $\mathbf{x}_{\widetilde{\mathbf{u}}}$ | 173 |
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| SLE I | | , | Мохти. | 18:08. | July August September November. December | January February. March. April. May. | Total |

UNITED STATES WEATHER BUREAU.

The Chief of the United States Weather Bureau has continued to interchange reports with this office, and I desire to express my warm appreciation of the uniform courtesy that has characterized all communications from that office.

LIBRARY.

The number of publications received during the year was 309, being for the most part annual, quarterly, monthly, weekly, and daily reports and periodicals, from the principal astronomical, meteorological, and magnetic observatories of the world.

PUBLICATIONS.

Seven hundred and forty-four copies of the Annual Report and seven hundred and fifty copies of the Monthly Weather Review and the same number of the Toronto General Meteorological Register were distributed to all parts of the world. Five hundred and fifty copies of the Monthly Weather Chart were distributed to persons in Canada and the United States, and seventy copies of the Daily Weather Chart were distributed each day.

TIME SERVICE.

During the year ended June 30, 1899, one hundred and five observations for time were made in the meridian with the transit instrument, in which 265 standard stars were observed, also five solar observations were taken. The position of the stars used were those given in the 'Berliner Jahrbuch'.

The collimation error of the transit instrument has been frequently determined from micrometrical measurements on the collimating telescope and by reversal on stars. This error has changed very little during the year. The azimuth and level errors also show very little change.

With the equatorial telescope the sun has been mapped on 170 days showing the

sun's surface four inches in diameter. On 35 days no spots were visible.

The time exchanges with Montreal, Quebec and St. John have all been registered on the chronograph at Toronto. The errors of the Toronto clock and of the timepieces used by the different observers elsewhere are computed from the latest observations. The mean time clock of the Toronto Observatory has throughout the year been adjusted to show absolute standard time of the 75th meridian. This is done by means of raising or lowering the centre of gravity of the pendulum by placing on and taking off small weights of different values as occasion requires. This adjustment is effected without stopping the clock. Time has been given weekly to the Magnetical Observatory at Agincourt. The make circuit electrical contacts of both sidereal and mean time clock have performed very satisfactorily, requiring no adjustment. The automatic break circuit attachment to the mean time clock has also performed exceedingly well.

In accordance with instructions from the department, arrangements were made early in 1898 for the installation of a time signal at Deadmans Island, Vancouver. It was decided to fire a dynamite cartridge hoisted at the end of a jib and connected by wire with the C. P. R. Telegraph office in Vancouver each day at noon, but it was subsequently found that the noise of the city drowned the sound and therefore it has since been fired at 9 p.m. The cartridge is prepared and placed in position for firing by Wm. Jones, keeper of the bell tower at Brockton Point and at the proper instant an electric contact is made at the telegraph office by the chief operator who rates a chronometer, provided by this service, by time signals given each morning over direct wire from McGill University, Montreal, by Professor C. H. McLeod. The accuracy of the signal is therefore dependent on three things: firstly, the accuracy of the time as given from Montreal; secondly, the uniform rate of a chronometer during twelve hours from 9 a.m. to 9 p.m.,

and thirdly, the trustworthiness of the operator at Vancouver. It is proposed very shortly to instal a gun in place of the dynamite cartridge as the fire of a gun will probably be heard more generally. When in Vancouver during the past summer I was informed that the time signal was giving much satisfaction to the shipping people and the citizens generally.

The following table shows the difference between the time by 'standard observer' and that given at the various exchanges. The sign + indicates that the time as sent from the different observatories is faster than that by the "standard observer."

The time of 'standard observer' is obtained by taking the arithmetical mean of the times as determined at Toronto and Montreal.

| | | 1 | | | |
|--------------|----------|-----------|----------|---------------------------------------|--|
| · — | Toronto. | Montreal. | Quebec. | St. John. | |
| 1898. | Seconds. | Seconds. | Seconds. | Seconds. | |
| July 7 | 0:21 | +0.21 | -0.92 | -0.04 | |
| , 26 | -0.17 | +0.17 | -1.28 | +3.22 | |
| August 29 | 0·12 | +0.12 | +1.15 | +0.65 | |
| September 22 | 0.33 | +0.33 | +1.16 | +0.18 | |
| October 25 | -0.05 | +0.02 | -0.76 | +0.06 | |
| November 16 | -0.39 | +0.39 | +0.24 | +0.15 | |
| December 15 | -0.12 | +0.12 | +0.19 | +0.50 | |
| 29 | ,0·18 | +0.18 | +0.23 | +1.43 | |
| 1899. | | | | | |
| January 12 | -0.26 | +0.26 | 0.27 | +0.59 | |
| " 30 | -0.26 | +0.26 | +0.45 | -0.44 | |
| February 16. | -0.35 | +0.35 | +3.09 | -0.20 | |
| 11 28 | 0.22 | +0.22 | +2.61 | +1.67 | |
| March 17 | 0.44 | +0.44 | 0.33 | +0.70 | |
| ıı 30 | 0.00 | 0.00 | -0.20 | +1.18 | |
| April 14 | | +0.13 | +0.49 | -0.09 | |
| " 28 | -0.19 | +0.19 | +0.55 | +0.59 | |
| May 12 | | +0.18 | +0.26 | +1.06 | |
| _ " _ 26 | | +0.24 | +0.43 | +1.59 | |
| June 9 | | -0 06 | +0.62 | +0.32 | |
| " 23 | 0.01 | +0.01 | -0.05 | · · · · · · · · · · · · · · · · · · · | |

Inspection of Stations.

Forty-seven stations were inspected by B. C. Webber who reports that 'barometers were cleaned and adjusted at all places where it was found necessary and instruments were overhauled and tested. At Paspebiac it was not considered advisable to erect a new drum house, but at Gaspé a suitable mast and drum house were erected on a point of land commanding the view to the entrance of the harbour. At Percé the fishermen ask that one lamp be utilized at night to denote a moderate gale and the two used only when a heavy gale is expected, as if a moderate gale only is likely they do not haul up their boats. At Tignish, Summerside, Port Hood, and Port Hastings new observers were instructed in the duties required. At Souris the mast has been removed to the bluff overlooking the wharf, a much more commanding position. At Charlottetown the instruments have been removed from the Provincial Government Buildings to the observer's private dwelling-house; the position is equally good and more convenient. At Liscomb the present position of the signal mast is in all respects the best to be obtained. A new mast is required at Port Hastings. At Sydn-y the wind gauge is much worn. At St. John's, Newfoundland, an electrical wind gauge was placed in position. At Shippegan the fishing industry has been of late removed to the village, proper consequently the signal site now commands the anchorage. At Bathurst everything was in very bad shape and gross carelessness was evident. At Port Hope the mast is now on the steamboat wharf, a much more desirable place than it was in. I fail to see the

utility of a signal at Picton, but the townspeople do not wish it removed. A short slim pole at the top of the railway station now does duty as a mast at Deseronto. The exposure is very poor at Kingston and the anemometer useless. The new signal mast is excellent. At Port Dalhousie, Goderich and Amherstburg the colour of the mast was changed from a dirty red to the regulation white. The masts at Port Colborne, Port Burwell, and Port Dover are poor flimsy affairs. The anemometer tower at Port Stanley is vastly improved in appearance since the application to it of two coats of white lead paint. The mast at Kincardine is getting pretty well worn, and that at Midland is a wretched affair and worn out; further, the view of it from the harbour is hidden to a great extent by a large elevator and vessels passing outside of the harbour cannot see it.' It is proposed to erect a suitable mast on the high land to the southward of the town, the council having generously granted a site, and the mast is to be placed in such a position that it will be seen by all mariners.

Three stations were inspected by Mr. H. V. Payne who reports that 'at Parry Sound all the instruments were in good order and observations well taken. The storm signal mast and shed require painting badly, and this was ordered to be done. At Collingwood everything was in good order. At Owen Sound the mast will soon require

painting. Signals were in good order.'

I have the honour to be, sir,

Your obedient servant,

R. F. STUPART,

Director.

APPENDIX A.

QUEBEC OBSERVATORY,

QUEBEC, August 31, 1899.

To the Director,
Meteorological Service,
Toronto.

Sir,—I have the honour to transmit my annual report for the year 1898-9.

The meteorological observations have been taken daily at the observatory, with the exception of the bi-hourly temperatures which were as usual registered at the Citadel.

The standard time has been given to mariners and to the city everywhere as heretofore. The correct time was also given to watchmakers and other persons nearly every day by means of the telephone, also chronometers have been rated at this observatory.

The repairs to the buildings which I had the honour to report last year as being necessary, have been made during the summer 1898.

I have the honour to be, sir,

Your obedient servant,

ARTHUR SMITH.

Director.

APPENDIX B.

ST. JOHN OBSERVATORY,

St. John, N.B., October 4, 1899.

SIR,—I have the honour to present the annual report of the St. John Observatory for the fiscal year ending June 30, 1899.

The chief station routine of meteorological work has been continued without change

from my former report.

The issue of the daily weather bulletin has been largely extended and demands are frequently made for a further increase. Reports of the weather conditions prevailing at coast stations published in the bulletin, are very useful to those interested in shipping;

the forecasts and synopsis have proved of much value to mariners and others concerned in weather changes. Telephone messages and personal calls are frequently made at this office before the bulletin can be sent out.

The morning forecasts are sent to St. Martins, where they are publicly posted at the telephone office. Storm warnings also continue to be telephoned to St. Martins and signals are displayed at Quaco Lighthouse.

The daily weather bulletin as well as a report of local meteorological conditions are

published by all of our daily papers.

Demands for information from the office records are very frequent and considerable

time is consumed in answering these requests.

The daily time signal has been given to the shipping and others by dropping the time ball as formerly at 1 p.m. local time.

Observations of stars with the transit instrument for the correction of errors and

rates of the observatory clocks, have been continued, as heretofore reported.

The clock formerly used as a sidereal standard was dismounted in May, was thoroughly repaired, and fitted with a break circuit attachment for the automatic transmission of time signals. It is now running on standard time of the 75th meridian.

I have the honour to be, sir,

Your obedient servant,

D. L. HUTCHINSON,

Director, St. John Observatory,

MAGNETIC OBSERVATORY.

TORONTO, October 13, 1899.

Major F. GOURDEAU,

Deputy Minister of Marine and Fisheries,

Ottawa.

SIR:-I have the honour to submit herewith the report of this observatory for the

fiscal year ended June 30, 1899.

Since my last report the magnetic photographic instruments have been removed from the old stone observatory in Toronto to the new building near the village of Agincourt, Ontario. The new observatory which was commenced in June and finished during the early days of September, consists of two parts—a circular stone cellar, and a rough cast building above ground placed on a heavy foundation. The cellar is nineteen feet in diameter, the walls two feet in thickness, the floor concrete, and the roof covered with felt and gravel, in which, on stone piers sunk in concrete to the depth of six feet below the floor, are placed the self-recording photographic instruments; namely, the declinometer for recording changes in the direction of the magnetic needle, and the bifilar and vertical components of the earth's magnetism. The above ground building which is connected with the cellar by a flight of steps, is divided into two portions, in the larger of which absolute magnetic determinations will be made, piers being provided on which to place the necessary instruments, and an adjustable opening on the roof for transit work; the smaller portion is an office, which will be heated by a copper stove.

Very great care has been taken in selecting materials for the building. Every stone used was tested for magnetic effect, and none but copper or zinc nails and fastenings

have been used.

Observations were first made in the new observatory on September 10, and by October 1 all the instruments had been adjusted in their new position, and everything

was running smoothly. Results already obtained show that values will differ but slightly from those obtained at the old observatory, and a very careful comparison was made before dismounting the old eye-reading instruments in Toronto.

There appears to be every prospect that the new observatory will be admirably suited for the purpose for which it was designed, and there is strong reason to think that the series of observations at Agincourt will be practically a continuation of the old and valuable series of observations made in Toronto. All the photographic records will be sent for development to the Toronto Observatory, which continues to be the Central Office of the Meteorological Service of Canada.

Mr. Menzies has been deputed to reside at Agincourt and attend to the routine work, such as keeping the lights burning, changing the photographic papers, &c. He also makes weekly determination of the absolute declination, and of the dip, measures the hourly ordinates of all the traces and tabulates them in the books provided for that purpose. The adjustment of the various instruments and the determination of scale values has been performed by myself, as have also up to the present the various determinations of the horizontal force.

In the spring of 1898 we found it possible to lease a house in the village to serve as a dwelling for Mr. Menzies and this lease was on April 1 last renewed for two years. There is a strong probability, however, that at the expiration of the present lease the owner may wish to return to her own dwelling. It would, therefore, in my opinion, be well that a small suitable dwelling house be erected on the observatory block of land, the officer in charge would then be near his duties and also be in a position to see that the building is not injured or instruments tampered with by tramps or mischievous boys. The present rented house, even if it be possible to retain it, is about a mile from the observatory, and during the winter and early spring the countryside roads are almost impassable. The new observatory has been visited by the President of the University of Toronto, the Principal of the School of Practical Science, and by the officers of the Astronomical and Physical Society of Toronto, all of which gentlemen expressed themselves as very pleased with the new building.

After the installation of the seismograph at the observatory, Professor Milne, the Secretary of the Committee of the British Association for Seismological Investigations, informed me that his committee wished to place an instrument near the western coast of Canada, that they were willing to supply the instrument, but there were no funds available to pay an observer. It was, therefore, decided to place it in charge of our meteorological observer at Victoria, and since last September Mr. Reed has had charge of it, and has obtained the very best results, fully equal to those obtained from the Toronto instrument.

In the printed report of the Seismological Committee at the Dover meeting of the British Association this year will be found the following regarding our Canadian Seismological work:—'The purchase money for the Toronto instrument and the funds required for the installation and maintenance of the same, and also for the installation of a seismograph at Victoria, have been provided by the Dominion Government. The excellent series of results obtained from these stations, amongst other things, throw light upon changes taking place along the eastern and western Canadian seaboards. They have already attracted the attention of scientific men, and will undoubtedly act as an incentive for other governments to work on similar lines.'

When the magnetic instruments were removed to Agincourt the old stone observatory became vacant and during last autumn a small addition and various internal alterations were made, and since December the offices of the Meteorological Service have been within its walls. The frame and rough-cast building which had served as an office building since 1878 has been converted into a director's residence, and makes a very sightly and comfortable dwelling.

I have the honour to be, sir,

Your obedient servant,

R. F, STUPART,

Director.

APPENDIX No. 4.

SIGNAL SERVICE, CANADA,

OFFICE OF THE SUPERINTENDENT,

QUEBEC, November 7, 1899.

F. Gourdeau, Esq.,
Deputy Minister of Marine and Fisheries,
Ottawa.

Sir,—I have the honour to inclose herewith the annual report for the Signal Service, for the year ending June 30, 1899.

As in preceding seasons, reports have been received from the stations in the lower part of the river and gulf, recording the weather, wind, condition, location and movement of the ice during the winter and spring months, and during the season of navigation all inward and outward bound vessels as signaled when passing each station.

From the 1st to the 20th April, three reports per week were obtained and forwarded to the Board of Trade, Montreal, St. John, N.B., and Quebec, and to the Chamber of Commerce, Halifax, N.S., also to the press of Montreal and Quebec, to the Agent of the Department, Quebec to the Custom-house and Immigration Agent, to agents of steamship lines, tug owners, to the pilots for below and above Quebec, also to Messrs. H. Fry & Co., Lloyd's agents, Quebec.

From the 21st April reports were received daily and forwarded as above, and in addition to the Harbour Commissioners, North Sydney, during the season of navigation.

The Chief Superintendent of the Quarantine station at Grosse Isle is also supplied with full information as to weather, wind and the incoming of all transatlantic or foreign vessels.

The Quarantine doctor at Rimouski is also supplied with a report of the incoming mail steamers, name of station and hour of passing being given when vessel was first signaled.

Information was supplied from the bureau here as in past seasons to the agents at Anticosti, Magdalen Islands, Meat Cove, C.B., Cape Ray and Cape Race, Newfoundland, and to St. Pierre Miquelon, from the 13th April, as to weather, wind, movement and condition of the ice in the gulf and river of St. Lawrence up to Montreal for the guidance of any vessel calling for information.

Information as to wind, weather and ice in the vicinity of Anticosti, Magdalen Islands, Meat Cove, St. Paul's Island and Cape Ray, Newfoundland, is also sent to Point aux Esquimaux in March for the guidance of the sealing fleet.

Grosse Isle quarantine station reported all transatlantic vessels, which has proved very satisfactory to the shipping interests.

These reports are free to the department being transmitted over the Government telegraph line to Quebec.

LAST OUTWARD BOUND VESSELS-1898.

November 26, 1898.—The last Royal Mail Steamer, the SS. "Lake Ontario" sailed on this date.

November 26, 1898.—The SS. "Montrose" and the SS. "Norman" sailed on this date.

November 29, 1898.—The SS. "Guildhall" sailed on this date.

FIRST INWARD BOUND VESSELS-1899.

April 22, 1899.—The first inward bound vessel, the SS. "St. Marnock", arrived on this date.

April 23, 1899. - The SS. "Dominion" and the SS. "Fremona", arrived on this date.

The services of Mr. H. J. McHugh, Superintendent of Signal Service, were dispensed with by Order in Council, dated 6th of June, 1899; the duties being since performed by the agent of the department with the assistance of Mr. Henry McGreevy. Respectfully submitted.

I have the honour to be, sir,

Your obedient servant,

J. U. GREGORY, Agent, Department of Marine and Fisheries.

APPENDIX A.

Report on ice, &c., in the Straits of Belle Isle and Coast of Newfoundland, as noted by the Agent of the Department at Belle Isle, Cape Bauld, Cape Norman and Greenly Island.

Belle Isle.

December 9, 1898.—Three icebergs were sighted, one off Cape Norman, one to the north-west, and the other off White Islands. The wind during this month was mostly west-north-west. On the 31st, a good deal of sheet ice came out from the north-east.

January 1 to 15, 1899.—This part of the month was very cold, the thermometer averaging from 5° to 20° below zero, also strong gales of wind prevailed, the weather being very severe. Straits full of sheet ice in all directions, the wind has at times attained a velocity of 75 miles an hour. From the 15th to 31st, the weather was not so cold, but strong gales of wind prevailed, mostly from the West to WNW. Straits full of large sheet ice all through, three icebergs in sight from here.

February 1 to 6, of this month the weather was very cold and the Straits were full of ice in all directions, the prevailing winds were WNW. from the 6th to 15th, the weather was cold with strong gales from the WNW. with snow and the Straits were full of ice, very little clear water to be seen. Towards the latter part of this month the ice got

very heavy, owing to the cold weather.

March.—The Straits were full of heavy ice during the whole of this month, the fore Part the weather was clear and west-north-west winds prevailed, during the latter part the Straits were blocked with very heavy ice and the winds were mostly from the north-

east. A great number of icebergs were sighted this month.

April.—All through this month the Straits were blocked with heavy ice, no vessel could have passed through in any direction. One sealing steamer was seen outside the eastern end of the ice on the 22nd of April. For 21 days north to north-east winds prevailed, which kept the ice packed in the Straits. On the 15th of the month an immense body of ice passed south and numerous large icebergs; 44 icebergs in sight.

May.—From the 1st to the 8th of this month, strong gales of north-east wind prevailed, the force of the wind was 70 miles an hour at times. The straits were packed with heavy northern ice, no clear water to be seen anywhere; 47 icebergs in sight.

For 37 years as assistant and keeper I have never seen the Straits so continually blocked with ice as it has been the past winter and spring, scarcely a lake to be seen anywhere, it is simply one solid sea of ice. The Straits remained blocked until the 24th of this month when west winds set in, and the ice moved eastwards, on the 28th there was clear water between here and the Labrador coast.

June 2.—First vessel to pass through, steamer "Neptune", Capt. Blandford, bound to Blanc Sablon with fishing crews, 5th, Straits clear to west and about 20 miles east. 6th, schooner "Fidelle" from Change Islands arrived to land fishing crews, reports left Change Islands on April 11, for here and were blocked ever since. On the coast shore along east it was all blocked with ice and the people was in a state of starvation. On the 18th one Dominion line steamer passed through outward bound, first steamer seen passing through.

CAPE BAULD, NEWFOUNDLAND.

As stated in previous reports, the distance from Belle Isle being but 14 miles, the observations as to wind, weather, &c., vary but little with the latter place. The first snow fell on October 6, 1898.

November.—This month was fine and clear, south winds prevailing mostly, snow fell on one occasion only.

December.—A considerable amount of snow fell this month, first slob ice made its appearance on the 14th.

January, 1899.—The first half of this month was very cold; the latter part, the weather was rather mild, snow fell on two occasions only.

February.—The first part of this month was clear and fine, hardly any snow fell;

28 icebergs were sighted from here during the month.

March.—The first half of this month was very fine, west-north-west winds prevailing; from the 12th to the 23rd the weather was very bad, strong north-easterly gales

ing; from the 12th to the 23rd the weather was very bad, strong north-easterly gales prevailing. The rest of the month was fine; 8 to 15 icebergs were sighted daily here during this month.

April.—About 20 icebergs were sighted daily here this month.

May.—A very large number of icebergs were sighted here this month, averaging about 40 daily.

June.—About twenty-five icebergs were sighted daily here this month. On the 14th seven schooners crossed over. On the 16th the first steamer was sighted from here, outward bound. On the 18th another steamer passed out. On the 19th a number of schooners passed in.

CAPE NORMAN.

October 6, 1898.—First fall of snow, north-east wind; snow fell on six occasions; north-east winds prevailed the whole of this month. Two to three icebergs seen daily.

November, 1898.—Snow fell on four occasions this month; north-east winds prevailed. From the 1st to the 20th about one iceberg seen daily.

December, 1898.—A large quantity of snow fell this month; variable winds; first ice made its appearance on the 13th. About two icebergs seen daily.

January, 1899.—Snow fell on several days; east wind prevailed; light close packed ice inshore throughout the month. About one iceberg seen daily.

February, 1899.—Snow fell nearly every day this month; north-west and north-east winds prevailed; heavy close packed ice inshore throughout the month. About one iceberg seen daily.

March, 1899.—Snow fell on nine occasions; north east and north-west winds prevailed; heavy close packed ice throughout the month. About two icebergs seen daily.

April, 1899.—Hardly any snow fell this month; the first half of the month east winds prevailed; and the latter part, west winds; heavy close packed ice throughout the month. About one iceberg seen daily.

May, 1899.—No snow worth talking about fell this month; variable winds prevailed; heavy closed packed ice in shore throughout the month; from four to six ice-bergs seen daily.

June, 1899. — On the 14th of this month the ice disappeared; about seven

icebergs seen daily.

GREENLY ISLAND-1898-1899.

1898.—First snow fell on October 11, first ice formed on January 1, 1899, and from this date, heavy open to heavy close packed ice filled the Strait until about the end of May when it all disappeared. No seals sighted this year.

I have the honour to be, sir,

Your obedient servant,

JOHN U. GREGORY,
Agent, Department of Marine and Fisheries.

APPENDIX B.

THERMOMETER Readings at Belle Isle, from January 1, 1899, to March 31, 1899.

| 1899. 1899. 1899. 1899. 1899. January 1. | <u></u> | Date. | Degrees. | I | Oate. | Degrees. | | Date. | Degrees |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------|----------|----------|------------------|----------|--------|-------------|-----------------|
| | | 1899. | | | 1899. | | | 1899. | |
| 2 | January | 1 | | February | 1 | | March | 1 1 | 16 |
| " 4. 2 " 4 14 " 4 " 5 " 5 4 " 5 " 5 " 5 " 7 " 6 " 7 " 6 " 7 " 6 " 7 " 6 " 7 " 6 " 7 " 7 " 0 " 7 " 0 " 7 " 0 " 7 " 0 " 7 " 0 " 7 " 0 " 7 " 0 " 7 " 0 " 7 " 0 " 7 " 0 " 7 " 0 " 7 " 0 " 7 " 0 " 7 " 0 " 7 " 0 " 7 " 0 " 7 " 0 " 7 " 0 " 7 " 0 " 0 " 7 " 0 " 7 " 0 " 7 " 0 " 7 " 0 " 0 " 7 " 0 " 7 " 0 " 7 " 0 " 0 " 7 " 0 " 0 " 0 " 10 " 10 " 11 " 11 " 11 " 11 " 11 " 11 " 11 " 11 " 11 " 11 " 11 " 11 " 11 " 11 " 11 " 11 " 11 " 11 " 11 " 11 " 11 " 11 | 11 | 2 | | | | | | 2 | 19 |
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Lowest temperature in January, 1899, 2nd January; highest, 25th January. Lowest in February, 1st and 3rd February; highest, 25th February. Lowest in March, 14th March; highest, 24th March.

Respectfully submitted,

MICHAEL COLTON, Lightkeeper.

I have the honour to be, sir,

Your obedient servant,

J. U. GREGORY,
Agent, Department of Marine and Fisheries.

SIGNAL STATION, CITADEL.

Halifax, N.S., August 14, 1899.

J. Parsons, Esq., Agent, Marine and Fisheries, Halifax, N.S.

SIR,—I have the honour to forward herewith a return of the number of vessels reported at this station during the twelve months ending June 30th, 1899.

The service has been carried out satisfactorily on the whole, though considerable inconvenience is experienced by reason of the frequent changes in the personnel of the signal staff, which are necessary owing to regimental requirements. There is no doubt that this inconvenience would be considerably reduced if a permanent hand could be employed at Camperdown. The desirability of this was pointed out in last year's annual report. Such a man would have to be a civilian, preferably a man-of-war's man, who could instruct the regimental signalmen in identifying vessels and in communicating with them by means of the International Code of Signals.

The illustrated diagrams of the code of signals have been published since last year's

annual report.

I have the honour to be, sir,

Your obedient servant,

H. B. ROBERTS, Major, R.E., Superintendent of Signals.

68 VICTORIA, A. 1900 PORT OF HALIFAX, N.S.,

Particulars of Vessels Signalled during

| Монтн. | Men | nglish -of-Wa | .r. | F Men | oreign of-Wa | ır. | Steam | ers, 1st | class. | Steam | ers, 2nd | l class |
|-----------|---------|------------------|-----------|----------|-----------------|-----------|---------|----------|-----------|---------|----------|-----------|
| MONTH. | Passed. | Arrived. | Reported. | Passed. | Arrived. | Reported. | Passed. | Arrived. | Reported. | Passed. | Arrived. | Reported. |
| 1898. | | | | | | | | | | | | |
| July | o | 0 | 0 | 0 | 0 | 0 | 0 | 26 | 26 | 6 | 56 | 62 |
| August | 0 | 3 | 3 | 0 | 1 | 1 | 0 | 14 | 14 | 4 | 69 | 73 |
| September | 0 | 4 | 4 | 0 | 0 | 0 | 2 | 19 | 21 | 9 | 64 | 73 |
| October | 0 | 7 | 7 | 0 | 0 | 0 | 3 | 21 | 24 | 5 | 57 | 62 |
| November | 0 | 1 | 1 | 0 | 0 | 0 | 7 | 19 | 26 | 0 | 65 | 65 |
| December | 0 | 2 | 2 | 0 | 0 | 0 | 4 | 34 | 38 | 0 | 70 | 70 |
| 1899. | | | | | | | | | | | | |
| January | 0 | 1 | 1 | 0 | 0 | 0 | 5 | 46 | 51 | 5 | 42 | 47 |
| February | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 30 | 32 | 1 | 46 | 47 |
| March | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 30 | 31 | 3 | 42 | 45 |
| April | 0 | 1 | 1 | 0 | 0 | 0 | 7 | 29 | 36 | 3 | 48 | 51 |
| May | 0 | 2 | 2 | 0 | 0 | 0 | 5 | 51 | 26 | 2 | 49 | 51 |
| June | 0 | 6 | 6 | 0 | 0 | 0 | 8 | 18 | 26 | 5 | 67 | 72 |
| Totals | 0 | 27 | 27 | 0 | 1 | 1 | 44 | 307 | 351 | 43 | 675 | 718 |

P.S.—Besides those sailing vessels reported, a large number arrived during the night of which no

SESSIONAL PAPER No. 11 SIGNAL SERVICE.

the Year ending June 30, 1899.

| | Ships | | B | arqu | es. | Bar | quent | ines. | | Brigs | 3. | Br | igant | ines. | So 3-n we vat | choon naste aring e Sig | ers, d or Pri- nals. | Mon | thly T | otals. |
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| Passed. | Arrived. | Reported. | Passed. | Arrived. | Reported. | Passed. | Arrived. | Reported. | Passed. | Arrived. | Reported. | Passed. | Arrived. | Reported. | Passed. | Arrived. | Reported. | Passed. | Arrived. | Reported. |
| 0 | 1 | 1 | 2 | 10 | 12 | 0 | 2 | 2 | 0 | 0 | 0 | 1 | 3 | 4 | 3 | 8 | 11 | 12 | 106 | 118 |
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| 1 | 1 | 2 | 4 | 6 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 4 | 6 | 10 | 22 | 100 | 122 |
| 0 | 0 | 0 | 0 | 2 | 2 | 1 | 1 | 2 | 0 | 0 | 0 | o | 1 | 1 | 1 | 5 | 6 | 10 | 94 | 104 |
| 0 | 0 | 0 | 2 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 3 | 1 | 3 | 4 | 11 | 91 | 102 |
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notice was taken.

H. B. ROBERTS, Major, R.E., Superintendent of Signals.

APPENDIX No. 5.

BOARD OF EXAMINERS OF MASTERS AND MATES.

Halifax, N.S., December 12, 1899.

The Deputy Minister of Marine and Fisheries, Ottawa.

SIR,—I have the honour to submit the annual report of the proceedings of the Board of Examiners of Masters and Mates from June 30, 1898, to June 30, 1899, the end of the fiscal year.

The Board met for examination of foreign-going candidates as follows:—

| | | Th | mes. |
|--------|---------|----------|------|
| At the | port of | Halifax | 10 |
| | | St. John | |
| | | Yarmouth | |
| " | " | Quebec | 1 |
| | | | |
| | Total | | 19 |

There were also three examinations held at Victoria, B.C., before the local Examiner at that port, the papers of the candidates having been returned to me for inspection and approval.

At Halfax nine applications were made for foreign-going certificates of competency as master, and nineteen for coasting and inland; eight foreign-going and sixteen coasting and inland masters received certificates. Seven applications were made for foreign-going certificates of competency as mate, and three for coasting and irland, and all were successful.

At St. John four applications were made for foreign-going certificates of competency as master and one for coasting. Four foreign-going and one coasting master were granted certificates. Twelve applications were made for foreign-going certificates of competency as mate, and eight mates received certificates.

At Yarmouth two applications were made for foreign-going certificates as Masters, and two for mates, and two Masters and one mate received certificates.

At Quebec two candidates applied for mates certificates foreign-going, and both were successful.

At Victoria four applications were made for mates certificates foreign-going, and three mates were granted certificates.

Fifteen applications were made for masters certificates of competency, foreign-going, and twenty-seven for mates during the year, and fourteen masters and twenty-one mates received certificates; also twenty applications for certificates as masters competency coasting were made to the Board of Examiners, and three for mates; seventeen masters and three mates received certificates.

Three certificates of service were issued through the Halifax office for masters coasting, and four renewal certificates.

The total number of certificates issued by the Department of Marine and Fisheries, including competency, service and renewal, upon applications made to the Board of Examiners at Halifax, was sixty-two, and fees to the amount of \$675 collected.

At St. John, the local member of the Board holds examinations for coasting certificates, and make his returns direct to the department, in the same manner as the coasting examiners at other ports.

25

SESSIONAL PAPER No. 11

Amongst the applicants enumerated above, some have presented themselves a second or third time for examination, having previously failed to pass. A second trial, however, is allowed any candidate without any further fee being charged.

I am of opinion that it is most desirable in the interest of commerce, and for the safety of navigation, that the standard of examination to test the qualifications of applicants for certificates of competency as masters and mates in the coasting trade, should be raised at as early a date as possible.

In 1898, acting upon instructions from the department, I drafted a new set of rules and regulations for these examinations, which contained, among other matter, the problems in navigation and questions in seamanship, I deemed necessary.

The new examination in navigation proposed, was not much more difficult than that prescribed for the second mate of a sea-going vessel. I have not yet been informed if it

has been taken into consideration.

At present, masters and officers employed in the passenger steamer trade between Canadian ports and Bermuda, Jamaica, Demerrara, etc., or any of the West Indian or South American ports, as well as those officers attached to large steam vessels carrying numerous passengers to Boston and New York, are only required to pass a similar examination in navigation to that authorized for the same grade of officer in a fore-and-aft rigged schooner, engaged in the cargo trade from one port to another on our coast.

The mate has to work the latitude by meridian altitude of the sun, take a bearing of an object by compass, determine the ship's position by cross-bearings on the chart, and to shape a course by compass and determine the distance run from any given departure.

The master has no other problem in navigation to work, but in addition has to explain how he would shape a course to counteract the effect of a current, and find the distance made good towards a certain point in a given time.

The qualifications required of these officers, are therefore very low.

The progress of the age has brought out many improvements in the practice of navigation, and much more professional knowledge is required of officers connected with large steamers carrying passengers, than formerly, and greater care is necessary on account of the high speed maintained by some of the steamers upon the coast, the risk of collision in fog being annually augmented by the ever-increasing number of ships moving about.

Men in charge of large passenger steamers, engaged in the coasting trade, frequently run them at a high rate of speed in fog, trusting implicitly to the compass course being correctly steered and make good, taking it for granted that the assumed position of the vessel is correct, although no opportunity has been offered to verify it.

This over-confidence has been the source of many casualties entailing serious loss upon the owners of ships, and insurance companies, and in many cases the destruction

of the passengers' baggage.

It is proper for steamers to be run carefully along our coast in fog, and for safety the speed must be reduced, the lead should be constantly employed in sounding, as a line of soundings will assist the master in fixing the position of his ship in a more accurate manner than if only an occasional cast of the lead had been taken.

Although the term "coasting" is used in the rules and regulations, it may be observed that the certificate obtained after such a meagre and wholly inadequate examination, is at present deemed sufficient to enable an officer to take charge of or serve on board the largest passenger steamer employed, not only upon our own coast, but to make voyages as before mentioned to the West Indies and the east coast of South America, which I am of opinion ought in every respect to be considered as foreign-going voyages.

Vessels so engaged do not in any case keep in sight of the coast for any length of

time, but are for days many miles from land.

It can, therefore, be seen that the position of the ship must be daily ascertained by observation or by dead reckoning.

If the sun or stars appear, the longitude by chronometer should be found. This problem is not included in the examination.

When the sun is obscured, the ship's position is to be ascertained by dead reckoning, that is by the course and distance run from the preceding noon. For this purpose, the deviation of the compass upon the particular courses steered, should be known and

applied, as the various disturbing influences affecting the compasses of iron or steel vessels, is a most important factor to be taken into consideration.

Men in command of large iron or steel steamers, are compelled to be constantly watching the movements of their compasses, to ascertain the amount of attraction exerted upon them, in order that due allowance should be made for the errors upon any change of course. A knowledge of this is not at present called for in the coasting examination.

I again beg respectfully to bring to the notice of the department the necessity of doing away with the issue of service certificates.

Men who may be entitled to such certificates, have had more than ample time to

apply for them since the year 1882.

There has frequently been much difficulty for applicants asking for these certificates, to give proof of their service, either as master or mate, as the case may be, prior to the first day of January, 1883.

In some cases it is known these officers have not been going to sea for many years, and are, therefore, not familiar with the changes in the rules and regulations for the navigation of Canadian waters, and they possess very little knowledge of navigation.

Occasionally, when a position as master is obtained on board a ship, they are

obliged to take an officer of ability to navigate her for them.

I am also of opinion that the certificates of masters and officers of passenger ferry boats, should be limited to the waters they intend to ply on, and the examination should have in view the special dangers which might be encountered upon their particular ferry route, otherwise they should be requested to undergo the ordinary examination for certificates for passenger steamers on the inland waters.

I have the honour to be, sir,

Your obedient servant,

WM. H. SMITH, Chairman of the Board of Examiners of Masters and Mates.

APPENDIX No. 6.

LIVE STOCK SHIPMENTS

APPENDIX No. 6.

LIVE STOCK SHIPMENTS.

RECORD of Live Stock shipped from Port of Montreal during month of May, 1899.

| | United State in Bond. | | : | : | 132 | 160 | 583 | 3 | ? | .; | 200 200 | 22 | 300 | 251 | 100 | 3 | 239 | : | 106 106 | 136 | | | | | | | | | | | | <u>.</u> | 19 ફે | • :: | |
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| | Hay for Feed. | Ľþs. | | | | | | | | | | | | | : | | | | | | | | | | | | | | : | : | : | ::::::::::::::::::::::::::::::::::::::: | : | | |
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| Новжк. | Shipped. | | 75 | 9 | ເ | 2 | : | | 23 | | Š | | | × | | | 45 | 44 | 55 | } | | 3 | 71 | 5 | 31 | - | | : | | : :: | | | 8 | : | |
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| | Steamer. | | I also Ontanio | | | · · · · · · · · · · · · · · · · · · · | ynthia | : | Numidian | | · · · · · · · · · · · · · · · · · · · | • | Sarmatian. | | | | | : | | | ::::::::::::::::::::::::::::::::::::::: | | Lake Superior | | | : | : | | | Melrose | er City | • | | _ | |
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| 25. Pinemore Liverpool 26. Bellona Newastle 28. Alcides Glasgow 30. Monteagle Bristol 30. Pomeranian Glasgow 31. Escalona Newcastle 31. Concordia Glasgow | Total for May, 1899 | Same date, 1898 |
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MONTREAL, May 31, 1899.

POPE & MORGAN, Inspectors.

RECORD of Live Stock shipped from Port of Montreal during month of June, 1899.

| S Cattle | United States in Bond. | | 51 | | | : | 317 | | : | | | : | | 3 3 | | : | | : | 150 | | 10 | | | : | : | | 230 |
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| | Hay for Feed. | Lbs. | | | | : | | : | | | | | : | | | : | | | | : : : : : : : : : : : : : : : : : : : : | | | | | : | | |
| r.i | Lost. | | | : | : : | : | : : | | : | : | | : : | : | : | : | : | : : | : | : | : | : | : : | | : | : | : | : : |
| SWINE | Shipped. | | | | | : | | | | | | | | | | : | | : | | | | : | | | | : | |
| zi. | Lost. | | <u> </u> | ::: | | : | : : | : | : | : | : | | : | : | : | : | | : | : | : | : | - | | : | : | : | : : |
| Horses. | Shipped. | | | 84 | 19 | | 88 | : | 86 | 45. 45.5 | 8 2 | | | | | 2 | | 16 | | S | . 67 | 16 | | 67 | : | 18 | 3 : |
| •1 | Fees collected | e cts. | 8 75 8 78 | | | | | | | | | | | | | | 12 62 | | | | | | | | | | |
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| હ્યું | Total. | | 252 585 | 385 | 118 | 367 | 9 9 9 9 9 9 | 269 | | 579 | 344 | 11 | 401 | 246 | 202 | 6/5 198 | 888 | 300 | \$ 8 | | 8,0 | 808 | 787 | 400 | 718 | 310 | 895 |
| CATTLE | Втоскетв. | | | : | | : : | | | : | : | : | | : | : | : | : | | : | : | : | : | : | | : | : | : | |
| | Fat. | | | | | : | | | | | | : | : | | | | | : | | | : | | | | | : | |
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| SHEKP. | Shipped, | | 153 | | | 169 | 177 | | : | 0111 | | | 134 | : | : : | 026 | 3 : | : | | 216 | | 22.0 | | : | 1,027 | 619 | 1,431 |
| | Jestination. | | London Manchester. | London. | | Bristol | Crlasgow London. | Liverpool | = ; | Bristol | alasgow | | Bristol | Glasgow | Liverpool | Jandiff | Liverpool | ` <u>=</u> | Newcastle. | rondon | Clargow | | Liverpool | Bristol | Liverpool | Manchester. | Liverpool. |
| | Steamer. | | rk r Enterprise | Hurona Laurentian | | | Assyrian. Mount Royal. | | : | | | Montevidean | | : | : | Scotsman. | : . | ior | : | : | Kosarlan | | ore. | | | Ruenos Avrosn | |
| | Date. | 1899. | June 1 | | · · · | ب م | | œ = | 10: | 11: 14: | : : | 15 | 15 | 15 | 12. | I7. | | 21 | : ឆ | : | : : : : : | 18 | | 23 | : 24. | 3.6 | 8 |
| | Number. | <u>_</u> | 33 34 5 | £ 4 | 4 | 55 | 5 1 | £ | 9! | 7-0 | - 64 - 64 | 9 | _ | 92 | . č | T 1C | | <u>.</u> | ထင | | | | ري ا | 4 | ان د | 91 | 8 |

| SESSIONAL | PAP | ER I | No. 11 |
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| 270 270 244 241 241 | 3,074 4,728 | 7,802 | 1,723 |
| 122222 | 731 573 | 1,304 | |
| | 1,399,427 1,047,015 | 2,446,442 | |
| | 4,043,487 3,264,690 | 7,308,177 | |
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| 2 : : : : : : : : : : : : : : : : : : : | | <u> </u> | |
| 8::::21 | 879 674 | 1,553 | 2,894 3,032 4,715 4,440 |
| 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 324 24 245 36 | 569 60 | 591 72 588 19 477 22 1,082 10 |
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| . 28 26 28 28 28 28 28 | 15,854 12,983 | 28,837 | 28,899 28,7911 28,780 29,830 |
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| | 17 | 1 : | : : : : |
| 457 | 8,470 3,365 | 11,865 | 2,682 6,566 9,066 |
| BelfastGlasgowLiverpoolBristol. | ted | | |
| 29. Torr Head Belfa 29. Salacia Glasg 29. Virginian Liver 29. Sedginore Eiver 29. Sedginore Brist 29. Gonteagle Brist 30. Cervona Lond | Total for June | Total to date | Same date 1898 1897 1895 1895 |
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| 57 27 27 27 27 27 | | | 3225 |

MONTREAL, June 30, 1899. * None, not allowed.

POPE & MORGAN,
Inspectors.

RECORD of Live Stock shipped from Port of Montreal during month of July, 1899.

| Cattle | United States in Bond. | | | | | : | 14 115 | | | | | : | | | | | | | | : | 63 | 5 E | 15 | = 5 | 35 | 770 | 712 | | 7.7. | : | | 90 | 2 |
|-----------|---------------------------|---------|-----------|--------------|-----------|-----------------------|-------------|----------|-----------|--------------|---------|-----------|--------|-------------|---------|----------|--------------|------------|---------|-----------|-------------|------------|-------------------------|---------|-----|-----------|-----------------------------------------|----------|-----------------------|---------|-----------|-------------|----------|
| en. | M to redmin M | | ä | == | ä | Ğ | 5 — | •• | ≈ | ≃; | = ; | = = | 4 ≠ | - 67 | H | ∺ | 5 5 (| ∓ ∂ | Ni ` | | - | Ġ | 5 F | 4 - | i č | ?° € | ð | N | | | Ξ; | ¥ = | í |
| | Grain for Feed. | | | | : | : | | : | : | : | : | : | : | | | | : | : | : | | : | | | :: | : | | | : | | | : | : | |
| | Hay for Feed. | | | : | | | | | : | | | : | | | : | : | : | | | | | | | :::::: | : | | | : | | : | : | | |
| • . | Lost. | | : | : | : | | : : | : | : | : | : | : | : | | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
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| zi | Lost. | | : | : | : | : | : : | : | : | ٠ | : | : | : | | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
| Нокѕкѕ. | Shipped. | | 7 | | | | 19 | : | : | 1 8 ' | | | | | | 46 | : | | | : 5 | | : | : | | - | | | : | 135 | : | | 25 | |
| • | Fees collected | ee cts. | | | | | 5 4 | | | | | | 91 OF | | | | | | | | | | | | | | | | | | | | |
| | Lost. | | : | | : | : | | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | | : | : | : | : | : | : |
| rle. | Total. | | 432 | 908 | 300 | 88 35 88 35 | 313 | 3 | 863 | 373 | 274 | 200 | 25.5 | 619 | 314 | 340 | 705 | 305 | 677 | 191 | 101 | 202 | 100 | 000 | 100 | 36 | 787 | 6IC | 688 | 77 | 137 | \$ E | 775 |
| CATTLE | Stockers. | | : | | : | : | | | : | : | : | : | : | | | : | : | : | : | : | : | | : | : | : | : | : | | : | : | : | : | : |
| | Fat. | | | | : | | | | | : | | | | : | | | : | : | | : | | : | : | : | : | : | : | : | | : | : | : | : |
| <u>a:</u> | Lost. | | | | : | : | | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | <u>:</u> | : | : | : | : | : |
| SHFEP. | Shipped. | | | 2 | 168 | 507 | 1 00 | <u>8</u> | : | 257 | : | | 163 | 497 | | 152 | : | 395 | : | : | | C4:4 | 766 | ¥67 | : | : | : | | 1,654 | : : | | 453 25.1 | 1 |
| | Destination. | | Liverpool | London. | Cardiff | Glasgow Manchester | Glasgow | London | Liverpool | Bristol | Glasgow | Newcastle | London | Manchester. | Glasgow | London. | Liverpool | Glasgow | Bristol | Newcastle | Liverpool | Monohoston | Mailchester. | Clasgow | : - | Liverpool | : | : | London | - | Liverpool | London | Margaria |
| | Steamer. | | Sardinian | | : | Alcides. | : : | | | | | | Hurona | Port | : | ukee. | | | : | Escalona. | | opinionio, | Med Ches I Lines prince | : | | : | : : : : : : : : : : : : : : : : : : : : | : | | : | Superior | : | |
| | Date. | 1899. | = | - | 67 | | 1 - | 9 | : • | : : : | : • | e t | : a | | 11 | 12. | 13 | <u>ج</u> | | 4.5 | : : : | 16. | 2 0 | . 0 | 3 | 3.8 | .: ₹8 | 7 | : :3 | : 88 | 28 | 3.5 | |
| | ã | 32 | July | = | = | = : | : : | = | = | = | = | = | = : | : : | = | = | = | = | = | = | = | : : | = | = | = | = | = | = | : | = | = | = : | = |
| | Number. | | 92 | | 200 | ₹ 8 | 3 6 | £ | 8 | , | 2 | 2000 | čá | 68 | 8. | 6 | 83 | 8 2 | # è | 38 | 3 8 | 5 8 | 3 5 | 2 5 | 3 | 57 | 227 | 103 | - - - - - | 105 | 3 | 30 | 3 |

| 8 : : : : | 3,275 | 1,077 | 4,343 |
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| 22582 | 1,304 | 2,040 1 | |
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| | çı : | 8 | |
| £ : : : : | | 2,353 | 3,665 4,788 5,959 6,642 |
| 25.21 25.23 26.23 | 238 20 569 60 | 08 298 | |
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| 882.58 882.58 | 14,689 28,837 | 43,526 | 48,885 56,647 14,499 44,627 |
| | | | |
| | | | |
| | 147 | 2 | |
| 1,069 | 7,558 | 19,393 | 7,993 22,302 19,254 42,899 |
| 27. Kastalia Glasgow 27. Lord Charlemont. Cardiff 29. Maplemore Liverpool 29. Ottoman. 30. Fremona. Newcastle. | Total for July Previously reported | Total to date | 132 Same date, 1898 129 |
| 88844 | | | |
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MONTREAL, July 31, 1899.

POPE & MORGAN,
Inspectors.

RECORD of Live Stock shipped from Port of Montreal during month of August, 1899.

| | United State. | | : | | | : | | | : | 125 | : : : : | : | 195 | | | | | | : | 107 | (3) : ::::::::::::::::::::::::::::::::::: | | | : | : | : | 150 | 9 | : : | | 90 |
|------------|--------------------|--------|----------|------------|-------------|-------------|-----------|-----------|-----------|----------|-----------------------------------------|-----------------------------------------|----------|---------|--------------------------|----------|----------|-----------------|---------|------------|----------------------------------------------|-----------|----------------|----------|-----------|--------------|---------------------|---------|---------------------------------------------------------------------------------|-------------|-----------------------|
| , Zlen. | Yumber of | | <u> </u> | 25 | 2 1. | œ ģ | <u>.</u> | 7. | 13 | Ξ; | 20.5 | 3 9 | 3 7 | 2 | 33 | 21 | 5 | 98 | 71 | 0 1 | 22 | 1 1 | 2 | | 4 2 | 2 2 | 2 2 | 1 % | 3 | 8 | Ξ |
| • | Grain for Feed. | Ľ. | | | | : | | | : | -:- | : | ::::::::::::::::::::::::::::::::::::::: | : | | | | | | | : | | : | : | | : | : | : | : | : | | |
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| · | .tso.I | | <u>:</u> | : | | : | : | | : | | : | : | <u>:</u> | : | : | | | : | : | : | : | : | : | | : | : | : | : | : | : - | <u>:</u> |
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| Horses | Shipped. | | ०१ | . ~ | . <u>S</u> | | κ | : | | | | : | | x ; | = | - 61 | | | 75 | | , | . ? | 7 | ~ 5 | ភ | ₹ ¦ | | | 25 | : 2 | : |
| .ba | Pees collecto | æ æ | | | | | | | | | : | : | : | : | : | | | | | | : | : | : | | | | | | | | 6.0 |
| | Lost. | | : | : | : : | : | : | : | | | | -: | : | : | : | : | | | : | : | : | : | : | : | : | : | $\overline{\vdots}$ | : | : | : | : : |
| . E | Total. | | 305 | ₹ <u>1</u> | 378 | 208 | 353 | 60.5 | 328 | 287 | 311 | 300 | 284 | 302 | 988 988 988 988 | 670 | <u> </u> | 910 | 211 | 3 | 308 | 203 | 312 | ×++ | | S (| 5 | 96 | 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5 | 030 | 199 |
| CATTLE | Stockers. | | : | : | | | <u>:</u> | : | : | | | : | -: | : | : | : | : | | | : | : | : | : | : | | : | : | - | : | : | |
| | Fat. | | : | : | | | : | : | : | | | : | : | : | : | : | | | | | | | | | | : | | : | | | |
| <u>a:</u> | Lost. | | : | : | | : : | : | : | : | | | | | | : | | : | : | | : | : | : | | • | : | : | : | : | : | : | <u>:</u> |
| SHEEP | Shipped. | | 1- | <u> </u> | 1,8,1 | : | 375 | 9 | | | 1.219 | 171 | 808 | ន | | | 116 | 777 | 2 | 1,164 | 278 | : : : : : | 93 93 93 | : | : | 2 | 715 | | 1,229 | 3 | 610 |
| | Destination. | | (lasgow | | Liverpool | Manchester. | Bri | Liverpool | : | (Flasgow | | Cardiff. | London | Glasgow | Liverpool | : | Bristoi | Livernool | London. | : | Glasgow | London | Glasgow | Bristol. | Liverpool | (Flasgow | London. | Glasgow | London | Manchester. | Liverpool |
| | Steamer. | | : | Rosarian. | Koman. | r Trader. | Monteagle | | Nedgmore. | | | | | : | : : | | | Manchester City | | | | Bellona | | Ikbal | ап | | | : | | rprise | Scotsman Mary Park |
| | દુ | ĝ. | | C 1 | 21 S | 4 00 | • | | : | + 4 | ; c oc | · x | 2 | 10 | 10 | 2 | 2: | | : : | 9 | | 17 | : | 17. | 5 | 37 | : | 24 | : | | 38 |
| | Date. | 1899. | Aug. | ; = | = : | : : | Ξ | Ξ | = | = : | : : | : : | : = | : | : | = | Ξ | = : | : : | : : | = | = | : | = | = | = | = | = | = | = | : : |
| | Zumber. | | | | 11: | 6 = 6 | 2 | 121 | 21 5 | 35 | 15 | 3 3 | 127 | 82 | 129 | 3 | <u> </u> | 222 | 3 2 | 66 | 136 | 137 | 28 138 | 139 | 9 | Ξ | 142 | 143 | 4 | 5 | 2 t |

POPE & MORGAN, Inspectors.

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|------------------------------------------------------------|----------------------------------------------|---------------|------------------------------------------------|
| x 2 2 2 | 609 2,040 | 2,649 | |
| | 932,510 3,675,972 | 4,608,482 | |
| | 3,865,915 | 15,076,992 | |
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| ត និឌ | . 190 190 190 190 | 3,143 | 4,312 6,309 8,281 |
| . e o c o | 287 32 867 30 | 155 12 | 1,180 13 1,405 22 1,145 24 2,529 89 |
| | : : | <u>-</u> | 206 1 |
| 88 + 70 88 + 70 88 + 70 88 + 70 | 12,714 43,526 | 56,240 | 59,580 75,176 62,312 60,216 |
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| | <u> </u> | : : | <u>** : : : : : : : : : : : : : : : : : : </u> |
| 001 | 11,417 | 30,810 | 14,110 29,118 41,393 72,341 |
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| iverpo asgow istol. | 899 | : | |
| <u>Bē</u> | ust 7 31, 1 | : | |
| : : : : : : : : : : : : : : : : : : : | r Aug d July | date. | 1898 1897 1896 |
| Lake Superior Liverpool Maplemore Glasgow Montfort Bristol | Total for August Reported July 31, 1896 | Total to date | Same date, 1898. 1897. 1896. |
| 146 150 151 151 152 M | | | <u>-iž.</u> |
| | | | |
| 140 150 151 | | - | 176 174 156 147 |

MONTREAL, August 31, 1899.

RECORD of Live Stock shipped from Port of Montreal during month of September, 1899.

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| SENT TO QUEBRC. | ЗрееБ. | | | • | | : | : | 729 | : | : | : | : | | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | | · | : |
| TO S | Cattle. | | | 909 | : | : | : | 99 | : | : | : | : | * 671 | | : | : | : | : | : | : | : | | 3.10 | 1 | : | : | : | : | : | | : | : |
| n Bon | U.S. Cattle i | | | : | | : | : | : | : | : | : | : | : | | | | : 1 | Je. | : | : | : | : | | : | : | : | : | : | : | | : | : |
| en. | N to redmnZ | | 1 | 3 8 | 2 | 33 | 14 | 33 | 8 | 27.5 | 7 2 | 9 9 | 5 10 | 2 | 12 | 22 | <u> </u> | 7 | - : | 07 | 7 12 | : 6 | 3 \$ | : : | 20 | c ç | 9 : | | ÷ 5 | <u>, m</u> | 01 | = 1 |
| | train for Feed. | Lbs. | | | | | : | : | : | <i>:</i> : : : : : : : : : : : : : : : : : : | : | : | | | : | : | : | : | : | : | : | | : | | : | : | : | : | : | | : | : |
| | Hay for Feed. f | Lbs. | | :- | | : | | | : | : | | : | | | | : | : | : | | : | <u>:</u> : | :- : : : | | | | : | : | | | | | |
| τį. | Lost. | | | : | | : | | : | : | : | : | : | | | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | | : | : |
| Horses | Shipped. | | 60 | 70 | | | 33 | : | 3 8 | 15 | : | 0.0 | 2 | | | 18 | €. | 4 | : | : | 2 6 | 3 5 | <u> </u> | : | 71 | : | : | : | : | | : | : ! |
| • | bətəəlləə səəfi | ♣ cts. | | | 9. 9. 9. | | 7 12 | | 8 71 | | 70 7 | | | 8 14 | 4 52 | 06 0 | 10 14 | χς 1 | 9: 8: 6-1 | : 6 6 0 0 | 0 X | 5 8 | 9 0 5 0 | : C 1 | 3 5 | | 200 | 77 77 | 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | 1 28 | 4 73 | 3 92 |
| | Lost. | | | : | | | : | | : | : | : | : | : | | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | - · · · | : | : |
| œ, | Total. | | 9 | 120 | 127 | 521 | 88 | 430 | 1 0 1 | 00 S | 3 | E 5 | 101 | = | 305 | : | 918 840 | 202 | 50.5 | <u>ج</u> | 906 | 200 | 007 | 600 | 9 | | 977 | 3 | 402 | 3 ₹ | 219 | 58 58 58 |
| CATTLE | Stockers. | | | : | | | | : | : | : | : | : | : | | | : | : | : | : | : | : | : | : | : | : | : | : | : | : | | - | : : |
| | Fat. | | | : | | | | | : | | | : | : | | | | | | : | : | | | : | : | : | : : : : : : | -: | | | | | : |
| 2. | Lost. | | _, | | : | | | : | : | : | : | : | : | | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | | : |
| SHEEP. | Shipped. | | 9 | 88 | 1.03 | 657 | | 340 | 149 | 321 | : | | 7.5 | 3.5 | | | : | | £. | <u>2</u> | : | : | : | : | | r c | 8 | 2,124 | | | 283 | |
| | Destination. | | - | | London | | (*Jasgow | Livernool | Bristol | (;lasgow | Newcastle | Liverpool | London | Livetpoot | lascow | Liverpool | Bristol | (*Insgow | Manchester. | Cardiff. | Belfast | Glasgow | Bristol | Liverpool | Glasgow | Manchester. | [condon | : | | Liverpool | Cardiff | Newcastle. |
| | Steamer. | | | : | Montevidean | | | | 1 | | : | V irginian | : | : | | | | Laconia | Trad | : :: =: | : | : | : | : | : | ŗţ | : | Brazillian. | : | rnitadelpnian | emont | Bellona. |
| | Date. | 6. | - | - c | | _ | - | | : : | : | : | : | × 5 | 1 | | | - | : | : | =: | : | : | : | : | : | : | : | # F | | 18 | : - | 23. |
| | Ä | 1899. | , | Sept. | = = | : : | : : | : : | = | = | = | = | = : | : : | = = | : = | = | = | = | = | = | = | Ξ | Ξ | : | = | = | : | = | : : | : : | = |
| | Number. | | | 3 | 3 12 | 32 | 157 | 128 | 159 | 160 | 161 | 3 | 3 5 | 3 | 99 | <u>13</u> | 89 | 69 | 20 | <u> </u> | 25 | 3 | 4 | 2 | 9 | 3 | 178 | 179 | <u> </u> | 182 | 83 | ₹ |

| SESSI | ONAL | PAPER | No | 11 |
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| 01001 | UNAL | FAFER | INO. | |

| SE | SSIO | NAL | PAPER No. |
|--------------------------|----------------------|-----------------------------------------|-----------------------------------------|
| : | 770 | 779 | |
| | 2,888 342 | 3,230 | |
| : | 2,649 11,636 | 11,693 | 4,961 1,059 10,356 None 2,659 |
| 10 | 508 | 3,157 | 4,961 10,356 None |
| | 908,910 4,608,432 | 5,517,392 | |
| | 3,413,100 | 18,490,002 5,517,392 3,157 11,693 3,230 | |
| : | 9 | : | |
| : | 3,143 6 1 | 3,695 | 4, 909 7, 938 9, 858 9, 832 |
| 3 75 | 231 21 | 1,386 33 | |
| 250 | | | |
| 250 | 9,254 56,240 | 65,494 | 72, 421 91,396 75,075 75,870 |
| | | | |
| :: | 12,948 | 43,758 | 21,447 42,423 56,789 112,165 |
| " 28. Amarynthia Glasgow | Total for September | Total to date | Same date, 1898 1897 1896 1896 |
| ¥ | | | |
| = | | | |

186

Montreal, September 30, 1899.

POPE & MORGAN, Inspectors.

RECORD of Live Stock shipped from Port of Montreal during month of October, 1899.

| | | | | | | | | | | | | | | | | | | | | | | • | | | | _ | • | , | |
|--------------------|----------------------------------------|------------|--------------|---------------|--------------|--------------|----------------|----------|----------------------|-------------------|--------------|-------------------------|----------------------------------------------|----------|----------|-----------|---------|---------|-------------|---------|---------|----------|-----------|------------|----------|-----------------|------------|--------------------------|-------------------------|
| TO SEC. | Speep. | | : | : | | | : | : | : | | : | | : | | | : | : | | | : | : | : | : | : | : | : | | : | 622 |
| SENT TO QUEBEC. | Cattle. | | | : | | | | : | - <u>;</u> - : | : | : | | - | | | - | | : | | : | : | 167 | - | : | : | 505 | | | 1,063 |
| .e. | U.S. Catt | | : | <u>:</u> : | | | <u>:</u> :: | : | : | : : | : | : - :: | <u>. </u> | : | | : | 25 | : | - : : | · - | · - | <u>.</u> | :- | : | : | | : | | 1,693 |
| Men. | Number of | | #; | 4 <u>6</u> | | 16 | . 13 | <u>.</u> | 2 2 | 9 | 3: | 1 | 20 | . 2 | 8 | 8 | 41 | 9 | N 5 | 2 8 | ું ટ | į | ? = | . 8 | - 1 | . 25 | | | 514 52 3,157 11,693 |
| Grain | for Feed. | | : | : | : | | : | : | : | | : | : | : | : | | | : | -: | : | : | : | | : | : | | | | | 730,290 |
| Hav | - - - | | - <u>-</u> | · : : | <u> </u> | | | : | : | - | | <u>:</u> : : : | : | : | | | | | | | | | | | : | | | | 3,434,019 18,490,092 |
| . | Lost. | | : | | : | | | : | - : | : | : | : | : | : | : | | | : | : | : | : | : | : | : | : | : | : | | |
| HORSES | Shipped. | | 86 | 2 8 | 8 5 | 32 | 9 | : | | 8 | : | | | 3 | : | | 19 | : | 9‡ | | - F113 | | : | , | <u> </u> | 31 | - 0 | i - | 3,695 |
| æq. | Fees collect | ots Cts | 9 35 | 9 2 2 2 | 88 | | | 14 33 | 8: | 200 | 37 8 50 5 | 4 03 | 12.4 | 26 | 16.0 | 10 01 | | 2 40 | 98 99 | r ; | 13 57 | 27.50 | CI 2 | 52.5 | 15. 4. | ? ! | 1 36 | # # # | 386 34 |
| | Lost. | | : | : | : | : | : : | - | : | : | : | : | : | : | : | : | : : | : | : | : | : | : | : | : | : | : | : | : : | |
| 3 | Total. | | 240 | 303 | 797 | 37.6 | 8 | 243 | 0++ | 244 | 199 | 697 797 | 77.5 |) (2) | 9 | 73. | 8 | 160 | 151 | 120 | 451 | 91 | 143 | X : | 774 | 36 | 120 | 305 | 9,879 |
| CATTLE | Зтоскетв. | | : | : | : : | : | | : | : | : | : | : | : | : | : | : | | | | : | : | : | : | : | : | : | : | | |
| | Fat. | | | : | : | : | | | | : | : | : | : | : | : | : | | | | :, | | : | : | : | : | : | : | | |
| | Lost. | | : | : | : | - | : | | : | : | : | : | : | : | : | : | | | : | : | : | : | : | : | : | : | : | | |
| хнекр. | Shipped. | | 170 | 257 | 7 | 1,131 | 3 | 2.136 | 200 | 35 | : | - | 170 | 20.00 | 48 | 1,400 | 55 | | 326 | | 170 | 202 | : | | 93 | 06.7 | | 161 | 8,848 43,758 |
| | Destination. | | London | (flasgow | Liverpool | Dariotol | Clasoow (| London. | Manchester. | London | Liverpool | (*lasgow | London | Bristol | (rlasgow | Tiverixon | Glasonw | London. | (tlasgow | London. | Bristol | London. | Livetpool | (ilasgow | Bristol | (ilasgow | [nverbool] | Cardiff | th 1890 |
| | Steamer. | | Cervona | | rior | Ottoman. | | | Interprise | Iona. | : | 3n | | e | | | Labonia | | an. | | | | a | | | | : | Cambroman Lord Iveigh | Total for the month |
| | Date. | 1890. | | 4 | - | 10 Y | 3.10 | : : | · ∞ | = | 11 | ٠. | 12. | 12. | 27; | # } | 12 | | | • | £ | R | 21. | <u>.</u> . | 92 | ે. જ | 35 | | |
| | | | Oct. | ; = | = | = | = : | | == | | <u> </u> | - | = | - | = | <u>-</u> | = : | | | = | = | = | = | = | = | = | ÷ | = = | |
| | N $umber$. | | 187 | 38 | 68 | 8 | 2 5 | 3 2 | 3 | 195 | 196 | 197 | 198 | 199 | 8 | 38 | 2 2 | 35 | 000 | 8 | 202 | 8 | ŝ | 210 | 211 | $\frac{515}{2}$ | 3 | $\frac{214}{215}$ | |

SESSIONAL PAPER No. 11

| SE | SSIONAL | PAPER | N |
|--------------------------------------------------------------------------|--------------------------------------------------------------|---------------------------------------|-----------------------------|
| 779 | 1,875 1,095 1,430 3,541 3,756 | | |
| 4,293 | 1,875 1,430 3,541 | | ectors. |
| 11,745 | 4,045 5,281 1,875 1,095 4,045 10,742 1,430 3,541 3,756 | AN, | dsuJ |
| 3,671 | 4,045 | TORG | |
| 6,247,682 | | POPE & MORGAN, | |
| 52,606 75,373 1,616 67 4,452 21,924,111 6,247,682 3,671,11,745 4,243 779 | 1,727 07 4,045 5,261 1,875 1,095 4,045 10,742 1,430 3,756 | PC | |
| : | | | |
| 4,452 | | | |
| ,616 67 | 87,540 1,727 07 00,681 87,479 88,479 | - | |
| <u> </u> | | | |
| 75,373 | 87,540 06,681 87,479 | | |
| : | | ! : : | |
| : | | :_ | |
| : | !!! | | |
| | | | |
| : | | | |
| 52,606 | 28,900 54,828 70,112 171 559 | | |
| : | | : ; | |
| : | : : : | : | |
| : | | | |
| : بو | γ ⊢ :ον | | 899 |
| Total to date | 25 S S S S | | 1, 1 |
| tal t | date, | | er 3 |
| Ţ | Same date, 1897 28, 1897 5-1, 1896 77 | , , , , , , , , , , , , , , , , , , , | MONTREAL, October 31, 1899. |
| | | : | , <u>, ,</u> |
| | | | FREA |
| _ | 242 242 243 | | Mon |
| | ~ ~ ~ ~ ~ | 1 | |

MONTREAL, October 31, 1899.

63 VICTORIA, A. 1900

RECORD of Live Stock shipped from Port of Montreal during month of November, 1899.

| SENT TO QUEBEC. | Вреер. | | | : : | _: | | | : | : | - | | - | : | : | : | : | : | : | : | : | : | | | 13 779 | 37.7 |
|----------------------------------|----------------------|-----------------------------------|----------------|----------------------------|-------------|-----------------------------------------------------------------------------------------|-------------------|--------------------------------------------------------------------|---------------|----------|---------------------|----------|------------|-----------|----------|-----------------------|--------------|------------|---------------|---------------|----------|-----------------|------------------|------------------------|---------------|
| జ్ రా | Cattle. | | <u>:</u> · | | : | : | : | : | : | : | : | | : | : | : | : | : | : | : | : | : | | | 4,293 | 7 203 |
| | US. Cattle. | | | | | | | : | : | | | | | : | : | : | : | : | : | : | | | | 11,745 | 3 971 11 745 |
| ·uə] | M to redmuZ | manufaction and all are such asse | 115 | 12 | 21 | <u> </u> | 16 | - | 7 . | 31 | == | 2 | <u>.</u> - | .G | <u>S</u> | \$ | 21 9 | 3 | 9 | 5. | <u>-</u> | 008 | | 3,671 | 3 971 |
| . Million de la chadh anns an an | (train or Feed. | - | ` : | | : | | | : | | : | | : : | : | : | : | | | • | : | | : | 421.590 | | 6,247,682 3,671 11,745 | 0.26 039 9 |
| | Hay (4) for Feed for | | | | | | | | | : | | | | | | | | | | | | 9.025.340 | 1 | 21,924,111 | 154 949 gc |
| ž. | Post. | | | : : | : | : | : : | : | : | : | : | : : | : | : | : | : | : | : | : | : | <u>:</u> | | : | : | |
| Horses | .bəqqid8 | | 37 | | _ | : | | : | | | : | 9 | | 65 | 1 | : | _ | 21 | 8 | ଞ | : | 786 | ì | 4,452 | 1 730 |
| •1 | Fees collected | s cts. | .c. 2 | | 7 45 | £ [9 → m | | | 5 10 5 10 | 33 | | | 2 60 | | | - - - - - | 85 | 10 88 | E 13 | 6. 6. | 2 4 | 130 91 | 1 | 1,616 67 | 77.00 |
| | Lost. | | - - | | : | : | | : | : | : | : | | : | : | : | : | : | : | : | _: | : | | : | : | Ī |
| LE. | Total. | | 245 | 900 | 175 | 325 24 25 25 25 25 25 25 25 25 25 25 25 25 25 | *** *** | 689 689 689 689 689 689 689 689 689 689 | 2 | 999 | 29. | 77. | 173 | 431 | 9 | 9 | 33 | 469 | 169 | 134 | | 6.431 | 1,, 10,1 | 75,373 | 100 |
| Саттье | Stockers. | | : | | | : | | | : | : | : | | : | | : | : | : | : | : | : | : | | : | | |
| | Fat. | , | | | | | | | : | : | : | | | | : | : | : | | | | | | : | | |
| ę; | Lost. | | | | | : | | : | : | : | : | : : | | | : | - : | : | : | : | : | : | | : | : | İ |
| SHEEP. | Shipped. | | 9 | 3 | <u>3</u> | | 162 | | | i | (:)7 | | | 745 | <u> </u> | 1,100 | : | 9 | 838 838 | 555 | : | 7.671 | 1 10,00 | 52,606 | 0.00 |
| | Destination. | | Glasgow | Manchester. Bristol | London. | (1) | Manchester | London. | Liverpool | Glasgow | Manchester. | London | (+lasgow | Bristol | (Hasgow | Liverpool | : | = | London. | Glasgow | Bristol | | | ed | |
| | Steamer. | | Sarmatian | Man. Corporation Etoléa | Brazillian. | Memnon | Manchester Trader | Yola | Lake Superior | Kastolia | Manchester Importor | Numidian | (trecian. | Monteagle | Salacia | Ottoman | Lake Ontario | Laurentian | Cervona | Assvrian. | Andoni | Total for Norom | TOTAL TOT TANKER | Previously reported | T. 1.1. F 100 |
| | | Ç. | | - 67 | 3 | 21 6 | | 10 | | 2: | 1 9 | 2 | 14 | 15. | 19 | 19 | ਲ | 24 | <u>.</u> ج | 23 | 35 | | | | |
| | Date. | 1896 | Nov. | = = | : : | : : | : : | = | = | Ξ | = | = = | : | = | Ξ | Ξ | Ξ | Ξ | Ξ | Ξ | Ξ | | | | |

POPE & MORGAN,
Inspectors.

SESSIONAL PAPER No. 11

| | NAL PAPER | |
|-----------------|----------------------------------|--------------------------------------------------------------------------------------------|
| SEC. | Зреер. | 7.79 1,095 616 3,756 7,541 |
| FROM QUERRY. | Cattle. | 4,293 2,187 1,941 3,541 1,401 |
| .e. i | US. Catti | 11, 745 |
| Men. | Number of | |
| | Hay Grain for Fred. for Feed. | |
| | y red. f | |
| | for F | |
| zi | Lost. | |
| SWINE. | Shipped. | 137 |
| x. | Lost. | 35-5% |
| Horses. | Shipped. | 10,827 10,921 10,421 13,303 1,666 1,730 |
| eq. | Fees collect | \$ cts. 1,755 & 1,954 61 2,381 34 1,830 18 4,955 23 3,997 53 1,984 70 |
| ! | Lost. | 153 536 485 141 646 |
| ×. | Total. | 81,804 99,189 117,247 96,448 94,972 88,635 83,322 98,731 |
| CATTLE. | Stockers. | 1,436 2,594 2,594 2,596 |
| | .teH | |
| | Lost. | 252 252 1914 |
| SHKEP. | Shipped. | 24,991 66,638 76,538 76,530 210,607 139,780 |
| | : <u>-</u> | 1896 1896 1896 1895 1893 1893 |
| | reare. | ments |
| | ×. | Total shipments 1899. 1898. 1897. 1897. 1895. |
| | | , |
| | Date. | ************************************** |

MONTREAL, November 28, 1899.

63 VICTORIA, A. 1900

RECORD of Live Stock shipped from Port of St. John, N.B., during season of 1898-9.

| | Men. | I to redamZ | | 0.2 | 8 32 49 | 364 |
|---|---------|--------------------|------------|----------------|------------------------------------------|-----------|
| | | Grain for Feed. | Lbs. | 147,249 | 104,532 118,384 185,800 199,610 | 755,575 |
| | | Hay for Feed. | Lbs. | 481,420 | 383,812 390,605 588,278 655,490 | 2,499,605 |
| | ei. | Lost. | | : | : : : : | |
| 1 | SWINE. | Shipped. | | | | |
| | ż | Lost. | | : | 17 | 13 |
| | Нокѕкя | Shipped. | • | 37 | 8 2 2 2 2 | 303 |
| | ·p- | цеез collecte | se cts. | 25 25 35 | 88.88 38.78 72.78 | 152 03 |
| | | Lost. | | % | 84 12 7 | 245 |
| | LE. | Total. | | 1,547 | 1,284 2,372 2,3067 | 8,579 |
| | CATTLE. | Stockers. | | | | |
| | | Fat. | | 1,547 | 1,284 1,372 2,067 2,309 | 8,579 |
| | • | Lost. | - | 4 | 21 22 0 22 12 | 12 |
| | SHKEP | Shipped. | | 856 | 319 149 150 | 1,624 |
| | - | Destination. | . ==== | | | |
| | | Steamer. | | | | Total |
| | | Date. | 1898. | December 1899. | January February March April | |
| | | Number. | | : | *===== | |

RECORD of Live Stock shipped from Port of Halifax, N.S., during month of December, 1898.

|)ec. 15 Labrador | . Liverpool | iverpool | 0 15 | ** | | 009+ | +300 | |
|----------------------------------|---------------------------|----------------------------------------------------------------------------------------------------------------------------------|------|-----------------------|---------------|-------------------------|------------------------|--|
| The horses are the property of C | Col. Anstrathur Duncan, R | The horses are the property of Col. Anstrathur Duncan, R.A., and shipped in charge of a groom. +100 lbs. carrots, 100 lbs. bran. | | hs. carrots, 100 lbs. | 00 lbs. bran. | - | - | |
| | | | | | DAVI | DAVID HUNTER, Port Wan | JNTER, Port Warden. | |

RECORD of Live Stock shipped from Port of Halifax, N.S., during the Year 1898.

SESSIONAL PAPER No. 11

| | n Jo redmuN | | ,_ |
|----------|---------------------|-------|--------------------------|
| · · | Grain for Feed. | Lbs. | |
| | Hay for Feed. fo | Lbs. | |
| si Si | Lost | | <u>:</u> |
| SWINE | Shipped, | - | : |
| ž | Lost. | | |
| Horses. | Shipped. | | ?1 |
| d. | Fees collecte | ets. | 0 10 |
| | Lost. | | : |
| ж. | Total. | | |
| Сатты | Stockers. | | |
| | Fat. | | |
| <u>.</u> | Lost. | | |
| SHERP | Shipped. | | |
| | Destination. | | |
| | Steamer, | | 13 Jan. 30 St. John City |
| | Date. | 1899. | Jan. 30 |
| + | Number | | 13 |

Port Warden. DAVID HUNTER,

RECORD of Live Stock shipped from Port of Halifax, N.S., during month of April, 1899.

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| | | |

*This horse was the property of an officer in the Imperial Army returning to Great Britain.

DAVID HUNTER,

RECORD of Live Stock shipped from Port of Charlottetown, during month of October, 1899.

| | 10 | ĺ |
|---|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | *630 Bush. | |
| | 19 tons | |
| _ | | |
| _ | 9 33 19 ton | 1 |
| _ | 9 33 | |
| | : 6 | |
| | 16 | |
| | £ | : |
| | 1,593 | |
| _ | iverpool | |
| | Oct. 26 Lake Huron Liver | The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon |
| _ | Oct. 26 La | |
| | - | i |

*1,008 bushels turnips and mangel wurzel

H. P. WELSH,
Inspector.

APPENDIX

STATEMENT of Expenditure by the Marine Department

| | 1868. | 1869. | 1870. | 1871. | 1872. | 1873. |
|-----------------------------------------------------------------------------------------------------|------------------------|-------------|----------------------|------------------------|---------------------------|----------------------|
| | \$ ets. | \$ ets. | \$ cts. | \$ cts. | \$ cts. | \$ cts. |
| Maintenance of lights— | 10 701 00 | 42,306 69 | 46,289 05 | 44.054.01 | 57,609 16 | 61,036 47 |
| Above Montreal | 40,561 28 23,053 56 | 25,762 54 | 21,669 49 | 44,054 01 22,453 52 | 22,369 00 | 31,143 14 |
| Below Quebec | | 41,651 73 | 43,730 61 | 31,582 75 | 41,936 00 | 65,645 00 |
| Nova Scotia. | 46,460 72 | 56,394 88 | 43,682 86 | 76,230 77 | | 100,953 80 |
| New Brunswick | | 23,893 00: | | 20,542 29 | | 29,266 85 |
| Prince Edward Island | 20, 100 00 | | | | | |
| British Columbia | | | | | | 13,207 09 |
| Construction— | | | | | | |
| Above MontrealQuebec | 3,136 15 | | 2,976 83 | 8,770 55 | 6,940 45 | |
| Quebec | 7,323 75 | 7,492 59 | 1,543 06 | | 57,818 35 | 39,303 87 |
| Quebec Nova Scotia | 22,041 42 | 6,905 80 | 18,967 23 | | 34,760 12 | |
| New Brunswick | | | 11,555 91 | | 9,561 14 | 16,691 06 |
| Prince Edward Island | | | | | · · · · · · · · · · · · · | |
| Dominion steamers— | | | | | | • • • • • • • • • • |
| Ougher | 69 026 73 | 37 176 02 | 34 549 49 | 59 797 05 | 47 500 00 | 51,758 05 |
| Quebec Nova Scotia | 14 778 92 | 26 603 94 | 19 759 96 | 13.139 86 | 20.999 63 | 24,999 57 |
| New Brunswick | 11,110 02 | 20,000 01 | 10,100 00 | 10,100 00 | 1 | |
| Prince Edward Island | | | | | | |
| British Columbia | | | | | 12,115 96 | 15,984 72 |
| Examinations of masters and mates | | | 908 12 | = 1,407,66 | 4,312 07 | 6,466 18 |
| Hudson's Bay expedition | | | | | | |
| Investigations Into wrecks | | | 140 00 | 1 | 874 00 | 1,068 89 |
| Marine Hospital, Quebec | 19,977 36 | 19,221 45 | 21,618 73 | 19,823 18 | | 21,000 00 |
| Marine Hospitals | 1,070 86 | 15,615 71 | 15,652 62 | 15,728 93 | | |
| Marine Hospitals. Meteorological Service Registration of Canadian shipping Removal of obstructions | 8,200 00 | 8,950 00 | 8,950 00 | 9,379 82 | 1 ' | , |
| Registration of Canadian shipping | | | 2,350 07 | 1,000 00 | | |
| Powerds for serving life | | | 2,300 07 | 1,000 00 | 2,284 32 | 1,975 13 |
| Rewards for saving life | | | | | 2,201 02 | 1,510 10 |
| Steamboat inspection | 7.106.93 | 7.999.00 | 7,396 96 | 8,321 00 | 8,500 00 | 13,266 00 |
| Signal Service Steamboat inspection | 1,100 00 | | | | | |
| Water Police, Montreal | 07 445 95 | (10,238 71 | 9,323 31 | 8,030 00 | 10,000 00 | 14,453 87 |
| Water Police, Montreal | 27,440 30 | (12,633 59 | 9,038 62 | | | |
| Civil Government | 15,083 88 | 18,064 25 | 19,401 05 | 20,220 96 | 22,644 52 | 25,336 0 4 |
| Steam communication— | | | | | | |
| Between Quebec and Maritime Pro- | | | | | } | |
| vinces | · | | | | | |
| Between Prince Edward Island and Mainland | | | | | 1 | İ |
| | | | | | | |
| Purchase of steamer to replace— | | i i | ŀ | | | |
| 'Glendon''Lady Head' | | | | 1 | | |
| Winter Mail Service, P.E.I. | 1 | | | 1 | 1 | |
| Tidal observations | 1 | i | | l . | i | |
| Gratuities Survey. Burrard Inlet | | l | | | | |
| Survey, Burrard Inlet | 1 | 1 | | | 1 | 1 |
| Export cattle trade | | | 1 | | | |
| | | | ! | | | |
| | $\pm 371.070.56$ | L360.899 90 | $\pm 367.129 \pm 11$ | L 389.537-19 | 2 518,958 49 | E 706,817 −9: |

No. 7. from Confederation to June 30, 1899.

| 1874. | 1875. | 1876. | 1877. | 1878. | 1879. | 1880. | 1881. | 1882. |
|------------------------|-----------------------------------------|-----------------------------------------|-------------------------------------------------------|-----------------------------------------|------------------------|---------------------------------------|-----------------------------------------|-----------------------------------------|
| \$ ets. | \$ ets. | \$ cts. | \$ cts. | \$ cts. | \$ ets. | \$ cts. | \$ cts. | 8 ets |
| 60,798 75 | 71,937 18 | 68,344 18 | 65,421 00 | 73,175 11 | 74,587 78 | 65,518 61 | 65,541 21 | 71,048 50 |
| 20.939 13 | 15,000 00 | 12,999 48 | 15.998 00 | 15,996 09 | 14,917 95 | 16,523 88 | 14,326 36 | 21,643 0 |
| 102,056 09 | 110,362 00 | 98,792 93 | 89,980 41 | 96,904 00 | 93,178 61 | 96,703 87 | 89,781 29 | 91,068 6 |
| 114,711 91; | 114,344 51 | 143,125 56 | 128,496 00 | 132,888 95 | 120,951 33 | 116,189 60 | 128,918 59 | 137,846 1 |
| 53,439 04 | 60,119 02 | 62,551 61 | 50,998 00 | 58,989 00 | 57,499 02 | 61,252 82 | 63,921 90 | 66,073 0 |
| 3,357 71 | 12,584 64 | 13,730 53 | 11,817 00 | 16,986 66 | 12,158 72 | 15,288 17 | 12,997 36 | 16,985 7 |
| 18,519 50 | 15,983 72 | 17,175 97 | 15,853 00 | 18,948 78 | 15,152 73 | 15,576 99 | 17,570 72 | 17,803 0 |
| 24,461 86 | 14,286 65 | 13,320 40 | 16,267 98 | 7,207 96 | 11,993 75 | 13,297 81 | 14,180 02 | 13,581 0 |
| 41,950 82 | 19,325 00 | 24,336 47 | 12,945 29 | 12,776 47 | 4,154 58 | 7,797 75 | 7,539 76 | 3,731 3 |
| 51,867 94 | 43,898 63 | 42,214 55 | 25,550 00 | 13,500 00 | 17,386 97 | 7,069 01 | 7,757 52 | 13,355 0 |
| 31,572 60 | 8,842 97 | 17,819 85 | 7,083 82 | 12,028 13 | 22,598 14 | 4,985 53 | 4,578 52 | 2,253 8 |
| | 8,799 07 | 11,829 61 | $\begin{array}{c} 17,752 & 00 \\ 29 & 66 \end{array}$ | 2,504 47 | 2,560 88 | 6,074 50 | 8,150 06 8,655 39 | $3,092 \ 0 \ 3,237 \ 9$ |
| 4,353 93 | 8,199 01. | 8,477 67 | 20 00 | | | | o,000 an, | 0,201 8 |
| 64,490 00 | 79,043 70 | 62,971 49 | 49,987 66 | 42,683 00 | 44,972 79 | 49,318 93 | 64,973 00 | 44,923 9 |
| 30,008 99 | 22,992 62 | 133,826 08 | 38,739 39 | 4g,027 00 | 42,016 53 | 49,318 93 | 64,700 00 | 31,049 7 |
| • • • • • • • • • • | • • • • • • • • • • • • • • • • • • • • | 16,241 26 | 61,782 63 | 28,933 63 | 16,332 05 | 14,429 52 | 15,139 95 | 23,911 |
| 10,555 67 | 41,796 74 | | 16,095 90 | 12,193 40 | 7,460 68 | 9,733 34 | 11,788 09 | 8,504 |
| 4,520 19 | 5,696 62 | 4,672 08 | 4,050 00 | 4,249 76 | 4,250 12 | 4,253 43 | 3,888 41 | 3,982 |
| | | | | | | | 910 40 | |
| 2,313 31 | 366 00 | 466 41 | 342 65 | 500 00 | 1,691 00 | 676 73 | 310 48 19,964 33 | 863 1 19,938 1 |
| 20,456 45 45,986 87 | 21,994 75 37,111 67 | 23,795 85 37,155 72 | 19,965 97 42,449 55 | 19,987 50 37,487 10 | 20,791 77 37,445 57 | 12,991 23: 35,040 00 | 32,218 94 | 33,162 4 |
| 36,700 59 | 33,580 00 | 45,560 03 | 44,871 38 | | 45,706 13 | 45,554 51 | 46,163 54 | 47,464 (|
| 272 30 | 1.096 46 | 412 06 | 842 14 | 1,435 10 | 239 26 | 257 75 | 607 43 | 2,013 |
| | | | 203 00 | | 305 86 | 825 00 | 150 00 | 1,116 |
| 4,931 78 | 3,552 86 | 2,292 20 | 1,958 55 | 4,071 00 | 2,533 10 | 2,263 15 | 1,806 13 | 2,212 |
| 1,000 00 | 10 000 00 | 19 001 00 | 13,073 01 | 19 000 90 | 13,076 46 | 11,854 34 | 12,211 65 | 14,835 |
| 10,291 58 | 12,200 00 | 13,081 86 | 13,073 01 | 13,228 38 | 15,070 40 | 11,004 01 | 12,211 00 | 14,000 |
| 12,370 86 | 13,395 00 | 14,09) 00 | 13,524 29 | 14,062 00 | 13,462 74 | 13,131 06 | | 21,994 |
| 26,526 66 | 24,500 00 | 27,136 68 | | 23,498 06 | 23,023 26 | 22,094 48 | 13,497 81 | |
| 30,087 23 | 31,326 18 | 32,789 18 | 32,304 12 | 32,682 50 | 33,610 19 | 35,083 95 | 36,447 50 | 36,789 |
| : | | | | | | | ! | |
| 15,000 00 | 10,000 00 | 10,000 00 | · · · · · · · · · · · · · · · · · · · | | | · · · · · · · · · · · · · · · · · · · | ••••• | |
| | | 750 00 | | : | | | | . |
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| 845,150 09 | | , ——— - —— | , | | | | | |

63 VICTORIA, A. 1900 APPENDIX

STATEMENT of Expenditure by the Marine Department

| | 1883. | 1884. | 1885. | 1886. | 1887. |
|-----------------------------------------------------------|-----------------------------------------|---------------------------------------|----------------------------------------|----------------------------------------------------------|-----------------------------------------|
| | | | | | |
| Maintenance of lights— | \$ ets. | \$ ets. | \$ ets. | * ets. | \$ cts. |
| Above Montreal | 70,116 68 | 70,788 27 | 70,697 89 | 85,713 98 | 75,690 74 |
| Montreal DistrictBelow Quebec | $22,260 32 \\ 102,784 99$ | 22,946 43 101,302 35 | 23,262 94 118,856 94 | 33,289 28 131,095 29 | $16,735 49 \\ 131,540 80$ |
| Nova Scotia. | 150,793 17 | 142,909 72 | 137,439 40 | 143,153 24 | 117,708 53 |
| New Brunswick | 75,946 92 | 86,670 70 | 92,130 28 | 76,046 63 | 96,425 28 |
| Prince Edward Island | 17,907 27 | 19,059 62 | 20,218 83 | 22,282 52 $14,783 75$ | 17,852 13 16,230 43 |
| British Columbia | 18,349 06 | 18,107 54 | 15,497 76 | 14,760 10 | 4,453 25 |
| Construction— | | | | | • |
| Above Montreal | 9,782 27 | 18,432 63 | 27,977 42 | 36,678 16 | 18,383 20 |
| Quebec | $9,672 50 \\ 9,422 75$ | 3,168 48 12,489 35 | 4,354 87 $4,352 42$ | 5,877 84 5,905 17 | 1,260 00 5,330 89 |
| Nova Scotia | 1,022 57 | 2,868 70 | 7,667 42 | 2,421 66 | 5,280 75 |
| Prince Edward Island | 1,934 49 | 2,158 60 | 879 40 . | | 384 60 |
| British Columbia | 1,005 26 | 9,830 38 | 5,223 11 | 4,942 70 | 321 84 26 58 |
| Dominion steamers— | ! | | | | 20 (x) |
| Quebec | 45,156 13 | 43,019 13 | 51,092 98 | 51,485 03 | 50,714 52 |
| Nova Scotia | 37,841 07 | 27,726 60 | 42,921 27 | $30,283 \ 27$ $24,633 \ 26$ | 32,287 10 14,337 23 |
| New Brunswick | 19,680 00 | 19,539 52 | 33,962 54 | 20,927 58 | 19,987 67 |
| British Columbia | 25,484 00 | 16,111 83 | 12,485 07 | 13,430 69 | 10,809 07 |
| Department | | 5 500 70 | | 2 090 00 | 13,288 83 4,858 98 |
| Examinations of masters and mates Hudson's Bay expedition | 4,021 20 | 5,580 79 480 69 | 6,656 44 $71,374 69$ | 5,239 28 35,217 10 | 14,762 61 |
| Investigation into wrecks | 875 64 | 830 12 | 385 15 | 592 63 | 520 14 |
| Marine Hospital, Quebec | 19,998 53 | 19,990 34 | 19,996 68 | 16,047 95 | 19,706 96 |
| Marine Hospitals | 29,880 78 51,990 25 | 31,401 30 56,418 16 | 45,371 29 $56,625 40$ | 32,229 02 56,898 33 | 32,545 35 57,140 74 |
| Meteorological Service | 168 84 | 189 27 | 237 88 | 157 13 | 233 13 |
| Removal of obstructions | 35 80 | 342 76 | 2,259 21 | 1,237 34 | 4,190 83 |
| Rewards for saving life | 2,534 60 | 2,614 91 | 5,221 15 | 8,147 22 | $7,36394 \\ 5,08217$ |
| Signal Service | 3,365 33 16,209 00 | 6,704 17 $21,893 28$ | $3,881 	ext{ } 05$ $23,235 	ext{ } 04$ | $\begin{array}{c} 4,622 \ 00 \\ 21,775 \ 57 \end{array}$ | 22,837 80 |
| Hydrographic surveys | 77 81 | 26,745 54 | 20,454 68 | 17,759 36. | 21,592 55 |
| Water Police, Montreal | 15,798 24 | 19,021 93 | 17,683 59 | 20,933 75 | 17,413 47 |
| " Quebec | 22,520 41 37,988 39 | 22,958 79° 38,775 00° | 20,399 33 29,900 83 | 22,922 82 30,453 57 | 22,935 65 37,193 62 |
| Steam communication— | 01,000 00 | a.,,,,, | 20,000 (10) | , 01 | 0,,100 |
| Between Quebec and Maritime Prov- | İ | | | | |
| inces Between Prince Edward Island and | • • • • • • • • • • • • • • • • • • • • | | | | • • • • • • • • • • • • • • • • • • • • |
| Mainland | | | | | |
| Repairs to wharf | | | | | <i></i> . |
| Purchase of steamers to replace— | | | | | |
| "Stanley"" "Glendon"" Lady Head" | 395 55 | 56,164 71 | 47,238 03 | | |
| "Lady Head" | | | | | |
| Winter Mail Service, P.E.I. Tidal observations | | · · · · · · · · · · · · · · · | • • • • • • • • • • • • • | 5,985 42 | 6,312 93 |
| Gratuities | | · · · · · · · · · · · · · · · · · · · | | | |
| Survey Burrard Inlet | 1 | | | | |
| Export cattle trade | | . | | | |
| Survey, Bay of Quinté Relief of distressed Canadians | | | | | |
| Manning ships | | | | | |
| Widow of late A. Warner | | . | | | |
| McDonald Bros. Parliamentary Returns | | | | | |
| Investigating effect of Chicago drainage | | | | | · · · · · · · · · · · · · · · |
| canal | | | | | |
| John McDonaldLongitude, Montreal | | | | | |
| Marine Biological Station | | | | | • • • • • • • • • • • • • • • • • • • |
| | | | | | |
| | 825,010 82 | 927,241 61 | 1,129,901 14 | 980,120 59 | 917,557 31 |
| | | | : | | |

No. 7—Continued.

from Confederation to June 30, 1899—Continued.

| | - | | 1 | | | | |
|-----------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------|------------------------|------------------------|------------------------|-----------------------|
| 1888. | 1889. | 1890. | 1891. | 1892. | 1893. | 1894. | 1895 |
| 8 ets. | \$ cts. | \$ ets. | \$ ets. | \$ ets. | \$ ets. | S ets. | 8 ets |
| 85,588 70 | 72,721 23 | 84,035 65 | 93,180 72 | 87,033 61 | 87,598 15 | 78,090 69 | 82,541 1 |
| 17,510 17 | 12,285 79 | 118,750 70 | 122,471 89 | 116,531 27 | 120,404 19 | 124,348 80 | 124,763 8 |
| 108,278 67 133,009 92 | 112,690 20; 140,197 15; | 139,459 56 | 139,916 83 | 148,815 26 | 150,445 26 | 137,339 73 | 140,977 5 |
| 73,465 49 | 78,285 79 | 61,608 91 | 61,089 31 | 66,886-69 | 71,079 46 | 59,917-96 | 69,654 |
| 14,796 62 | 19,118 51 | 16,968 80 | 19,000 46 | 17,069 98 26,858 68 | 16,819 64 24,413 27 | 15,569 39 27,240 77 | 17,976 (21,734 1 |
| 19,604 63 5,124 20 | $\begin{array}{c} 16,877 & 12 \\ 7,358 & 01 \end{array}$ | 16,411 49 | 19,595 22 | 20,000 00 | 24,410 27 | | 21,194 |
| 6,341 97 | 8,623 76 | ì | 9,796 28 | 21,704 05 | 8,766 62 | 12,581 15 | 2,699 |
| $2,287 86 \ 5,533 48$ | 12,203 06 6,039 91 | | 3,723 14 4,596 94 | 809 27 1,965 16 | 10,097 18 4,381 24 | 4,743 13 3,104 77 | $\frac{3,004}{4,737}$ |
| 1,542 61 | 2,966 36 | 23,863 09 | | 1,845 35 | 1,271 15 | 115 45 | 1,597 |
| | | 1 | 410 00 | 1 56 | | 1,604 00 | 100 |
| 5,918 00 | 1,890 00 40 14 | | 14,417 25 | 9,478 81 | 2,958 61 | 6,356 43 | 180 |
| | | | | | | | |
| 150,659 19 | 126,629-33 | 114,956 20 | 111,437 03 | 145,899-61 | 163,097 46 | 178,183 97 | 169,661 |
| 5,063 96 | 4,381 04 | 4,117 83 | 4,255 24 | 6,363 88 | 4,116 99 | 3,745 33 | 2,757 |
| 165 00 . 513 91 | 516 67 | 888 94 | 1,172 77 | 603 21 | 643 49 | 850 81 | 351 |
| 18,777 62 30,667 67 | 18,643 14! 33,089 20, | $\begin{array}{c} 10,279 \ \ 08 \\ 31,450 \ \ 03 \end{array}$ | 751 - 75. $33,303 - 37$ | 34,106 83 | 35,757 07 | 38,403 94 | 38,589 |
| 59,986 10 | 58,577 07 | 58,452 10 | 62,457 10 | 67,138 06 | 64,165 60 | 66,440 96 | 64,588 |
| 897 02 | 179 21 | 647 52 | 1,207 07 | 462 59 | 1,476 19 | 394 00 202 02 | $\frac{207}{2,217}$ |
| 2,500 94 6,825 48 | 3,603 65 5,503 44 | 5,737 26 8,150 92 | 3,633 65 4,952 20 | 2,878 68 6,398 93 | 1,554 53 7,432 64 | 8,014 67 | 6,591 |
| 4,441 59 | 5,092 54 | 4,976 80 | 4,700 79 | 5,014 42 | 5,040 58 | 4,668 93 | 5,311 |
| 21,430 45 | 22,213 03 | 20,989 52 | 22,183 76 | 22,736 59 | 24,386 95 17,542 11 | 25,961 36 31,461 76 | 26,385 $12,653$ |
| 19,424 14 18,725 95 | $\begin{array}{c} 17,808 \ \ 46 \\ 16,948 \ \ 82 \end{array}$ | 17,969 23 13,164 00 | $\begin{array}{r} 17,677 & 51 \\ 573 & 80 \end{array}$ | 16,451 10 | 17,942 11 | 31,401 10 | |
| 18,553 57 | 14,698 68 | 8,620 61 | 7,279 85 | 6,161 60 | 5,436 23 | | |
| 32,728 78 | 43,501 96 | 42,835 78 | 43,253 67 | 43,195 31 | 56,477 23 | 54,988-88 | 71,373 |
| | 143 505 60 | | | | | | |
| | | | | | 84 90 | 1,007 67 | 824 |
| • • • • • • • • • • | | | | | | | |
| 7,740 25 | 1,842 47 | 2,752 67 | 7,012 70 | 3,309 44 | 4,376 96 | 6,497 03 | 6,138 |
| | | 244 75 | 1,888 71 | 711 59 | 5,099 17 | 10,172 61 | 11,507 |
| • • • • • • • • | 200 00 | 80 00 | $1,025 00 \\ 1,690 12$ | 2,580 45 | | 3,261 32 | • • • • • • • • • |
| | | | 520 85 | 1,411 57 | 1,711 73 | 1,350 83 | 2,268 |
| | | | • • • • • • • • • • • • • • • • • • • • | | 2,085 45 | | |
| | | | | | | | 7 500 |
| | | | | | | | 160 |
| ••••••• | | | | | | | 4,000 |
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| | | 807,417 53 | | 861,426 80 | 000 = 22 = 2 | | 005 000 |
| | 1,023,801 34 | | 885,410 11 | | 898,720 03 | 905,654 34 | 895,828 |

APPENDIX No. 7—Concluded.

STATEMENT of Expenditure by the Marine Department from Confederation to June 30, 1899—Concluded.

| 87,256 124,143 123,234 63,018 17,988 24,770 | 66 65 | • | 87,841 22 | 8 ets. 92,751 23 |
|------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 124,143 123,234 63,018 17,988 24,770 | 66 65 | • | ., | |
| 124,143 123,234 63,018 17,988 24,770 | 66 65 | • | ., | U9 751 05 |
| 123,234 63,018 17,988 24,770 | 65 | 126,186 0 | | 92,101 Ze |
| 123,234 63,018 17,988 24,770 | 65 | | 116,279 88 | 136,134 79 |
| 17,988 24,770 | 64 | | 126,386 00 | 65,072 3 |
| . 24,770 | | 56,771 0 | | 128,674 18 |
| | | | | |
| | | 20,070 0. | 26,862 03 | 29,530 20 |
| 1 | • • • | | | • • • • • • • • • • • • • • • • • • • • |
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| 145 915 | | 196 040-1 | 117 644 90 | 145 970 7 |
| . 1 110,010 | 20 | 130,340 1 | 117,044 09 | 145,270 7 |
| | | | | Í |
| 4 069 | 82 | 3 536 28 | 3 335 40 | 3,568 2 |
| | | | | |
| . 483 | | 565 2 | | 982 1 |
| 90.000 | | 95 004 5 | | |
| | | | | |
| 517 | | | | 73,148 0 966 4 |
| 456 | | | | 745 4 |
| 8,004 | | | | |
| 06 201 | 76 | 5,986 13 | 2 5,993 88 | 6,067 4 |
| 15.099 | 63 | 12 359 9 | 20,342 29 | 28,035 4 13,664 9 |
| | | | 10,000 10 | 10,001 0 |
| | | | | |
| | | 74,801 33 | 74,644 05 | 72,833 9 |
| 1 | | | | • • • • • • • • • • • • • |
| | | | 1 | |
| 2,644 | 69 | 1,795 50 | 1,618 97 | |
| i | | | 1 | |
| | | • • • • • • • • • • • • • • • • • • • • | | 143,365 2 |
| | • • • | | | |
| 7,779 | 69 | 21,931 0 | 9,575 31 | 8,439 7 |
| 9,627 | 45 | 13,166 20 | 3,081 45 | 5,186 3 |
| | • • • | • • • • • • • • • • • • • • • • • • • • | | • • • • • • • • • • • |
| 9 887 | 91 | • • • • • • | 2 400 80 | 2,757 8 |
| 2,00,1 | | | 2,300 00 | 2,1171 00 |
| · · · · · · · · · · · · | | | | |
| 746 | | | | • • • • • • • • • • • • • • • • • • • • |
| | • • | • • • • • • • • • • • • • • • • • • • • | | • • • • • • • • • • • • • • • • • • • • |
| 291 | 08 | | | |
| 2.500 | 00 | | | |
| 200 | 00 | 243 49 | 2 | |
| | | • • • • • • • • • • • • | | |
| | • • • | · · · · · · · · · · · · · · · · · · · | | 5,709 10 |
| 793,634 | 49 | 867,772 94 | 856 192 50 | 1,102,601 92 |
| | 11,995 3,300 1,845 200 225 485 36,686 66,600 517 456 8,004 5,338 26,321 15,096 2,644 7,775 9,627 2,887 | 11,993 84 3,300 00 1,842 94 200 00 225 50 145,315 28 4,062 82 483 98 36,682 96 66,600 29 517 60 456 38 8,004 38 5,338 6,321 27 15,099 63 2,644 69 7,779 69 9,627 45 2,887 24 746 89 291 08 2,506 00 200 00 | 11,993 84 9,527 82 3,300 00 296 21 1,842 94 61 73 200 00 1 66 2225 50 569 99 145,315 28 136,940 11 4,062 82 3,536 22 19,091 33 483 98 565 22 36,682 96 37,984 73 66,600 29 67,397 73 517 60 531 56 456 38 631 84 8,004 38 5,955 19 517 60 456 38 631 84 8,004 38 5,955 19 517 60 26,321 27 26,837 81 15,099 63 12,352 98 74,801 33 2,644 69 1,795 56 7,779 69 21,931 06 9,627 45 13,166 26 2,887 24 746 89 291 08 2,506 00 200 00 243 42 | 11,993 84 9,527 84 6,867 69 3,649 90 1,842 94 61 71 4,067 99 1,423 34 452 90 1,409 60 6,414 19 225 50 569 99 6,414 19 117,644 39 4062 82 3,536 29 3,335 40 19,091 32 27,050 66 19,091 32 27,050 66 66,600 29 67,397 71 38,162 56 66,600 29 67,397 71 38,162 56 64,135 71 51 60 531 55 818 33 456 38 631 86 704 17 8,004 38 5,955 19 5,081 40 5,338 76 5,986 12 5,938 88 26,321 27 26,837 83 26,342 29 15,009 63 12,352 99 15,306 66 12 5,936 88 26,321 27 26,837 83 26,342 29 15,009 63 12,352 99 15,306 66 12 5,936 88 26,321 27 26,837 83 26,342 29 15,306 66 12 5,938 88 26,321 27 26,837 83 26,342 29 15,306 66 12 5,938 88 26,321 27 26,837 83 26,342 29 15,306 66 12 5,938 88 26,321 27 26,837 83 26,342 29 15,306 66 12 5,938 88 26,321 27 26,837 83 26,342 29 15,306 66 12 5,938 88 26,321 27 26,837 83 26,342 29 15,306 66 12 5,938 88 26,342 29 10 8 2,506 00 200 00 243 42 |

APPENDIX No. 8.

STATEMENT relating to the Wharfs under the control of the Department, on June 30, 1899.

| <u></u> | · | | | | ****** | | | | | |
|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------|---------------------------------------------|------------------------|--------------------------------------|----------------------------------|-------------|-------------|------------------------------------------------|----------------------|--|
| Locality. | Wharfinger. | Date of Appointment of Wharfinger. | | | Remuneration allowed. | | | Amount deposited to credit of Receive General. | | |
| Ontario. | | | | | | | | 8 | cts. | |
| Cockburn Island | Alfred Monck | May | 30 | 1889 | 25 n.c. of | collections | | 76 | 97 | |
| Goderich | W. Marlton | Feb. | | 1894 | | | . . | | 70 | |
| Hilton, St. Joseph Id., Algoma | E. Stubbs | June | | 1898 | | | | 220 | 12 | |
| Kingsville | A, E, Malott | Nov. | | 1895 | | , | | | 99 | |
| Morpeth | C. Stammers | Aug. | | 1894 | | • | | 3 | 06 | |
| Port Rowan | P Armstrong | Mar | 11 | 1898 1897 | 20 95 | do do | • • • • | 70 | 36 | |
| Rondeau | W R Fellowes | Dec. | 17. | 1888 | 25 | do | • • • • | | 63 | |
| Sault Ste. Marie | Geo. A. Boyd | April | | | | month for e | ight | | VO | |
| | | 1 | | | | during sea | | | | |
| | | ! | | | | gation | | 279 | | |
| Southampton | | | 16, | 1895 | 25 p.c. of | collections | | 37 | 25 | |
| Summerstown | | | | 1005 | | | • • • • | ĺ | | |
| Thessalon, Algoma | | | | 1890 | | do | • • • • | 00 | 50 | |
| wiarton | n. n. A. Foy | Dec. | 10, | 1000 | 29 | ao | | **** | - 50 | |
| - | 1 | | | | Tot | al | | 1,282 | 45 | |
| Qnebec. | | | | | | | | | | |
| Agnes Anse St. Jean Baie St. Paul Baie St. Paul, Isolated Block Beauport Berthier Cap-à-l'Aigle Carleton | F. Savoie Vacant. A. Simard D. Giroux E. Gaumond Jos. Guay | Mar. Aug. Nov. July Oct. | 25, 11, 5, 7, | 1895 1891 1896 1897 1896 | 25 25 25 25 50 25 | do | | 78 | 8 84 8 35 7 36 | |
| Cascades | Moïse Moreau. | Oct. | | | | collections | | | | |
| Cedars | J. Reay | April | | 1898 | | do | | 43 | 3 90 | |
| Coteau du Lac | T. E. Saucier | May | | 1898 | | | | | | |
| Coteau du Lac | M. St. Amour | Sept. | | 1896 | | do | | 1 | 47 | |
| Coteau Landing | | | | 1897 | | do do | • • • • | 116 | 3 51 | |
| Echo Vale, Lake Megantic Grand River | Goo Regudin | Nov | 16, | 1894 1896 | 25 | do | • • • • | 157 | 7 25 | |
| Isle aux Grues | | | 17 | 1890 | 25 | do | • • • • | | 17 | |
| Isle Perrot | Roger Leduc | Oct. | | 1897 | | do | | 1 1 | | |
| Knowlton's Landing | L. Knowlton | Nov. | 26, | 1897 | 25 | do | | | | |
| Lacolle | R. J. Robinson | Mar. | | 1894 | | do | | 23 | 3 82 | |
| Les Eboulements | | | | 1894 | | do | | | | |
| L'Islet | Octave Morin | Feb. | | 1893 | | do | | | | |
| Longueuil | Chas. Poirter | Oct. | 22, | 1896 1898 | 95 | do do | • • • • | 1 | 3 20 | |
| Magog | David Banville | Annil | | 1898 | | do | • • • • | ł | | |
| Murray Bay | Elie Maltais | Aug | | 1893 | | do | | | | |
| New Carlisle | | | 4. | 1889 | 25 | do | | | 1 44 | |
| Percé | T. W. Flynn | Jan. | | 1893 | | do , | • | | 3 24 | |
| Port Daniel | John Enright | Sept. | 11, | 1890 | \$50 per a | nnum | | . 50 | 8 32 | |
| Rimouski | Chas. Lepage | . July | 24, | 1894 | 25 p.c. of | collections | | . | | |
| Rivière Ouelle | . J. H. dit Beaulieu | Nov. | 28, | 1892 | 25 | do | | | 0 80 | |
| Rivière du Loup | Louis Piuze | Sept. | 16, | 1891 | 20 | фo | | | 7 93 | |
| St. Anicet St. Alphonse de Bagotville | Abel Trombler | sept. | 14, | 1896 1891 | | do | • • • | | 4 63 7 41 | |
| Alphonse de Dagotville | . Auci Tremousy | . wuy | ٠, | 1091 | (-24) | do | ••• | . (2 | , 41 | |

^{*} Commission on collections not to exceed \$200 per annum. 11-4

STATEMENT relating to Wharfs, &c .-- Continued.

| Locality. | Wharfinger. | | Remuneration a | Amount deposited to credit of Receiver General. | |
|----------------------------------------------------------|----------------------------|---------------------------------|----------------------|-------------------------------------------------------------|-----------------|
| Quebec—Con. | | : | i : : | | \$ ets. |
| St. Jean d'Orléans | L. Lachance | Sept. 26, 1896 | 25 p. c. of collecti | ions | 116 54 |
| St. Jean Port Joli Ste. Cécile du Bic | J. Pelletier L. N. Coté | Sept. 14, 1896 July 20, 1891 | | | 164 71 |
| St. Laurent d'Or:éans | Ed. Chabot | Aug. 25, 1894 | | | 12 30 |
| St. Thomas de Montmagny | L. L. Dionne., | Oct. 22, 1896 | | • • • | 2 38 |
| St. Zotique Tadousac | A. Christiansen | Sept. 21, 1896 Oct. 20, 1897 | | •••• | 36 25 |
| Trois Pistoles | D. Damour | May 10, 1895 | 25 do | | |
| Valois PointVille Marie | | | | | |
| ville Marie | ouies Mamard | Feb. 2, 1899 | 25 do | • • • • • | |
| Nova Scotia. | | · ! | Total | • • • • • | 1,463 82 |
| Arrsaig | H R McAdam | Dec 30 1808 | 25 n. o. of collecti | iona | |
| Avonport | | | | | |
| Babbins Cove | Alex. Thomas | Oct. 20, 1897. | 25 do | | 151 00 |
| Barrington | Jotham Fulton | Jan. 6, 1896. | 25 do 25 do | | 171 33 |
| Bayfield | W. McDonald | Oct. 30, 1894. | 25 do | | 28 58 |
| Belliveau Cove | St. Clair Thérieau | Nov. 24, 1892. | 25 do | | 80 81 |
| Broad Cove | | | | | |
| Brooklyn | F. T. Gardiner | do 20, 1882. | 20 do | | |
| Canada Creek Cape Cove. | C. E. Eaton | Nov. 23, 1888. | 25 do | ···· | 00.10 |
| Centreville | Alfred Ward | do 29, 1897. | 25 do 25 do | | 22 12 100 84 |
| Chipman's Brook | Jas. Misaner | Nov. 23, 1888 | 25 do | | ! |
| Church Point | Chas. F. Belliveau | Aug. 20, 1892. | ;25 do ⊧75 do | | 127 91 |
| Cranberry Head | Abram. Thurston | Febv. 16, 1889. | 25 do | | 169 98 |
| Cribbens Pier | A. R. Boyd | Oct. 2, 1895. | 25 do | | |
| Delap's Cove Descousse | R. W. McCaul | Nov. 28, 1889. | 25 do 25 do | | 6 00 35 84 |
| Digby | W. W. Hayden | Apr. 20, 1897. | 25 do | | 1,817 32 |
| Eagle Head | Nathan Leslie | do 9, 1889. | | | |
| East Bay | (Ronald's son.) | Apr 5 1886 | 50 do | | |
| East River, Sheet Harbour | Malcolm McFarlane. | May 20, 1890. | 25 do | | |
| Grand Narrows, Victoria Co Grand Narrows, Cape Breton | F. X. McNeil | Nov. 11, 1896. | 25 do | | |
| Co | Neil McNeil, jr | June 7, 1894. | 25 do | | 37 98 |
| Hall's Harbour | Judson Foster | Aug. 25, 1888 | 25 do 25 do | | 3 16 15 08 |
| Harbourville | Isaac Cook | May 28, 1897. | | | 25 00 |
| Horton Landing | | | | | 8 60 |
| Irish Cove | Wm. Martin | May 28, 1895. | 25 do 25 do | | 41 19 48 34 |
| Kelly Cove | Jos. B. Huskins | Apr. 11, 1899. | 25 do | | 10 01 |
| Lismore | D. A. McKinnon W. B. Smith | July 5, 1-95. | 25 do | | • |
| Maitland, Hants Co | J. Ellis | Dec. 10. 1896. | 25 do 25 do | | 34 61 |
| Margaretsville | C. S. McLean. | iMav 7. 1897. | 25 do | | 95 42 |
| Meteghan Cove | H. F. Kobicheau | do 28, 1897. | 25 do 25 do | | 26 64 |
| Militia Point | D. McIntosh | Aug. 25, 1892 | 25 do | | 45 00 |
| Morden Northside, Boularderie | John Redgate | Nov. 16, 1893. | 25 do | | 18 67 |
| Oak Point (Kingsport) | Rent from Railway | | | | |
| Ogilvie | Company | | 1 | | 399 50 |
| Ocilvia | M Donnallan | July 12 1209 | 95 n a of salla-45 | | 16 81 |

STATEMENT relating to Wharfs, &c.—Continued.

| | 1 | 1 | | <u> </u> | | | |
|----------------------------------------------------|---------------------------|----------|------------------------------------|---------------------------|---------------------------------------------------------|-------|------------|
| Locality. | Wharfinger. | Appoi | te of intment of rfinger. | Remuneration | Amount deposited credit of Receive General. | | |
| Nova ScotiaCon. | | | | | | 8 | cts. |
| Pickett's Wharf | Andrew Bishop | Dec. 2 | 4, 1884. | 25 p. c. of coll | ections | 31 | l 46 |
| Plympton | Wm. Smith | Aug. | 8. 1890. | 25 do | | 10 | 84 |
| Port George | W. Crawford. | June | 7. 1894. | 25 do | | | 7 03 |
| Port Hood | John D. McIsaac | . Dec. 2 | v, 1898. | 25 do | | | |
| Port Lorne | Freeman Beardsley. | . June 2 | 7. 1897. | 25 do | • • • • • | 33 | 3 25 |
| Salmon River, Digby Co Salmon River, Halifax Co | J. M. Deveau | Feb. 1 | o, 1899. 7. 1899 | 25 do 25 do | **** | | |
| Saulniersville | John I. Saulmer | Aug. Z | ο, τοσο. | 20 Q0 | | 25 | 5 33 |
| Tananala Tuland | Amos Stevens | Mar | I INUK | 25 do | | | 45 |
| Tidnish Tracadie | A. E. Sampson | Aug. 2 | 0, 1896. 6 1999 | 25 do 25 do | • • • • | 1 | |
| | | | | | | | |
| Viotomio | William Brown | i ao 1. | 1. 1889. | 120 go | | 10 | 20 |
| Wallace | Don. McKenzie | Dec. 1 | 6, 189 2 | 25 do | • • • • | : | |
| West Pubnico. | Chas. C. D'Entre- mont | Mar 2 | 8 1898 | 25 do | | 18 | 3 53 |
| West River, Sheet Harbour | Malcolm McFarlane. | Bep. | 3, 1889. | 20 do | | | |
| White Point | Elisha West | Jan. | 9, LOON. | 20 Q0 | | 1 | |
| White Waters | C. V. Anthony | Feb. 1 | 4, 1898. | 25 do | • • • • | 63 | 3 23 |
| | | į. | | Total | | 3,665 | 09 |
| New Brunswick. | | 1 | | | | | |
| | | | | :a* | | 7 | . 0= |
| Anderson's Hollow | W. C. Anderson | Mon 2 | 3, 1889. 8, 1898. | 25 p. c. of cone 25 do | ections | • | 95 |
| Black RiverBuctouche | J. J. LeBlanc. | May | 2, 1892. | 25 do | | 71 | 00 |
| Campbellton | Alfred J. Venner | June 1 | 0. 1893. | 25 do | | | 64 |
| Cana Tormentine | E. T. Allen | Oct. 2 | 0. 1897. | 20 ao | • • • • | | 59 51 |
| Clifton, Stonehaven | S. Paynes | Nov. | 9, 1894. 7 1801 | 25 do 25 do | | | 01 |
| Dalhousie. Edgett's Landing | Thos. Barnett | July | 5, 1895. | 25 do | | 26 | 79 |
| Honowell Cana | STACO II WILBON | A Dr. II | U. 1399. | (Zi) (U) | • • • • ! | | 80 |
| Kingston | Jas. Gordon | Apr. | 9, 1898. | 25 do 25 do | •••• | 24 | 11 |
| Neguac | B. Poirrier | June 1' | 7, 1897. 9 1898 | 25 do | | | |
| Quaco. St. Louis. | C. Frigand | Oct. 2 | 9, 1895. | 25 do | | | |
| St. Marv's | M. J. S. LeBlanc. | Mar. | 1, 1897 . | 20 00 | | | |
| Tracadie | Xavier Robichaud | Apr. 1 | 4, 1897. | 25 do | • • • • • | | |
| | | 1 | | Total | | 1,044 | 40 |
| Prince Edward Island. | ! : | | | | | | |
| | W. C. Jenkins | | | | | | 17 |
| Bay View | Joseph Harrington | | -, | 25 do 25 do | | | 81 65 |
| BelfastBrush Wharf | Thos. McLennan | Sept 1 | | 25 do | | | 66 |
| Camphell's Cove | Anous McIntyre | Oct. 1 | 7. 1888 | 25 do | | | |
| Chanal Point | Roland McCormack | Sept. | I. ISSO. | 25 do | | 11 | . 00 |
| China Point | W. S. N. Crane | do 1 | 8, 1885 | 20 00 | • • • • | 5 | 70 |
| CliftonCranberry, East River | Ismes Hughes | Mar. 1 | 2, 1886. 1, 1898. | 25 do | | 5 | 10 |
| Crapaud and Victoria Pier | E. McKinnon. | July | 7, 1897 | 20 | | 142 | |
| Georgetown | James Bourke | do | 2. 1885. | 25 do | •••• | 10 | 2 5 |
| Haggerty's Wharf | M. Burnett | Feb. 1 | 4, 1898 . o 1906 | 25 do 25 do | • • • • • | 7 | 50 |
| Hickey's Wharf Higgin's Shore | G. G. Henry. | Nov. | 9, 1891. | (20) | | • | - |
| Hurd's Point | R. Robblee | Oct. | b. 1888. | zo do | | | 11 |
| Kier's Shore | W Hodeson | June 1 | 0, 1895. | 25 do | | 92 | 59 |
| Lambert | Angus McQueen | Oct. 2 | 4, 1891. 4, 1896. | 20 Q O | • • • • | 14 | 51 |
| Lewis Point | Norman Gallant | Nov. | 9, 1891. | 25 do | • • • | | |
| McGee's Wharf Mink River | Wm. Miller | Mar. 2 | 7, 1899. | 25 do | • • • • | | |

STATEMENT relating to Wharfs, &c.—Concluded.

| Locality. | Wharfinger. | Appoir | Remuneration allowed. | | | Amou deposited credi- of Recei General | d to t iver |
|---------------------------------------------|--------------------|---------|-----------------------|-------------------|---------|----------------------------------------------------|-------------------|
| Prince Edward Island—Con. | | | | | | \$ 0 | ets. |
| Murray Harbour, South | J. McKinnon | Jan. 27 | 7, 1896. | 25 p. c. of colle | etions | 14 | 52 |
| Nine Mile Creek | Edward Harrington. | Oct. 29 | 9, 1885. | 25 do | | | |
| North Cardigan | Donald McIntyre | July 2 | 2, 1885. | 25 do | | | 24 |
| Pinette | A. H. Hubley | Dec. 18 | 3, 1897. | 25 do | | | 51 |
| Pownal | M. M. Haley | Oct. 1 | 3, 1896. | 25 do | | 85 | 84 |
| Red Point | Alex. McEachern | Mar. | 7, 1898. | 25 do | | | |
| St. Mary's Bay South Rustico, Oyster Bed | | Dec. 10 | 0, 1896. | 25 do | | 13 | 76 |
| Bridge | D Collent | Fab 99 | 1905 | 25 do | | 10 | 76 |
| Stevens and Montague | Angus McOncon | Oot 2 | 1 1901 | 25 do | • • • • | | 12 |
| Sturgeon River | Romand Koamov | Sont 1 | 1, 1091. | 25 do | • • • • | | 23 |
| Pignigh | A I Candat | Ang 9 | 2 1909. | 25 do | | | 78 |
| FignishVernon River | I G Makengio | do 10 | 0, 1000. 0 1005 | 25 do | | | 16 |
| Wood Island | Log Voung | Arm 16 | 0, 1000. N 1900 | 25 do | | | 18 |
| W COCI ISBNIU | Jas. 1 oung | Apr. 10 | o, 1000. | 20 00 | | 10 | 18 |
| | | 1 | | Total | | 896 | 76 |

RECAPITULATION.

| Ontario | 1,282 45 |
|-----------------------------------------------------------------------------------------|------------|
| | 1,463 82 |
| Quebec | |
| Nova Scotia | 3,665 09 |
| New Brunswick | 1.044 40 |
| Prince Edward Island | 896 76 |
| Total wharfage dues collected and placed to credit Receiver General | \$8,352 52 |
| ADD—Fees received by undermentioned harbour masters in excess of remuneration allowed:— | |
| | |
| Harbour Master—Fort William, Ont \$ 80 00 | |
| do Midland, Ont 6 87 | |
| do St. Johns, Que 70 50 | |
| do International Pier, N.S 110 00 | |
| do Louisburg, N.S. 139 00 | |
| | |
| do Pugwash do 36 00 | |
| do Chatham, N.B 2 00 | |
| do Hillsboro' do 62 22 | |
| do Nanaimo& Departure Bay, B.C 107 00 | |
| do Victoria and Esquimalt do 40 50 | |
| do victoria and Esquinant do 40 50 | CELOU |
| | 654 09 |
| Total Revenue from Wharfs and Harlyours | 89,006 61 |

APPENDIX No. 9

STATEMENT of Sick Mariners' Dues collected for the fiscal year ended June 30, 1899.

| Québec. | \$ cts. | Nova Scotia — Continued. | * | cts |
|----------------|----------------------|--------------------------|----------------|-----|
| faspé | 80 86 | Halifax | 9,929 | 46 |
| Montréal | 8,550 16 | Kentville. | 113 | 74 |
| Paspebiac | 442 96 | Liverpool. | 123 | 56 |
| ercé | 64 54 | Lockeport | 24 | 36 |
| Duebec | 6.053 90 | Lunenburg | 612 | |
| limouski | 423 69 | Middleton | | 78 |
| | 11 32 | North Sydney. | 812 | |
| t. Armand | | Parrsboro' | 864 | |
| t. Johns | 1,211 00 1 114 59 | | 477 | |
| orel | | Pictou. | 7.0 | |
| Stanstead | 44 55 | Port Hawkesbury | 266 | |
| Three Rivers | 480 84 | Port Hood | | -68 |
| | | Shelburne | 114 | |
| Total | 17,478 41 | Sydney | 4,712 | |
| - | | Truro | | 62 |
| | | Weymouth | 151 | 74 |
| New Brunswick. | | Windsor | 604 | 80 |
| Tree Dranowour | | Yarmouth | 595 | 48 |
| Bathurst | 182 96 | | | |
| Chatham. | 1.446 62 | Total | 20,719 | 42 |
| | 1.057 50 | | | |
| Palhousie | 1.270 26 | | | |
| Joneton | 885 64 | Prince Edward Island. | | |
| lewcastle | | I Timer Edicard Island. | | |
| ackville | 176 12 | G1 1 1 1 1 1 | 292 | ဝဂ |
| 8t. John | 5,400 64 | Charlottetown | | |
| St. Stephen | 118 50 | Summerside | | 28 |
| . Total | 10,538 24 | Total | 383 | 10 |
| Nova Scotia. | | British Columbia. | | |
| Amherst. | 628 34 | Nanaimo | 3,243 | |
| Annapolis | 178 22 | New Westminster | 66 | 32 |
| Arichat | 65 22 | Vancouver | 1,539 | 58 |
| Antigonish | 4 72 | Victoria | 3,397 | |
| | 42 62 | 7 ICUCI 300 | -,-// | |
| Baddeck | ; | Total | 8,246 | 69 |
| Barrington | 10 40 | 1 Otal | | 02 |
| Canso. | 197 36 | 10.10 | 57 905 | 70 |
| Digby | 168 3 0 | Grand Total | 57,3 65 | (1) |

APPENDIX No. 10.

REPORT ON LIFE-SAVING STATIONS.

Halifax, N.S., December 5, 1899.

To F. GOURDEAU, Esq.,
Deputy Minister, Marine and Fisheries Department,
Ottawa.

Sir,—In compliance with your instructions I have the honour to forward my annual report on the life-saving service of thedepartment for the year ended June 30, 1899.

During that year I visited all the life saving stations in Nova Scotia and New Brunswick with the exception of those at Sable Island, which are now placed by your orders under the inspection of Mr. Hutchins, Lighthouse inspector for the province.

I also visited all the stations in the province of Ontario, with the exception of Poplar Point, having been informed by Mr. W. V. Pettet, M. P. for Prince Edward, that no coxswain was in charge, and that the station was not in operation.

Under your instructions I also visited one of the United States life-saving stations, Chatham, Cape Cod, in December, 1898, shortly after the disastrous wreck of the steamer *Portlan i* near that part of the coast.

I was shown much courtesy and every information respecting the service in the

United States was freely afforded me.

Comparing Chatham, a most important station, with Sable Island which I inspected in May, 1898, I was gratified by our service bearing a satisfactory comparison with that of the United States.

HERRING COVE STATION, N.S.

Coxswain: I. Dempsey.

This station is now in excellent order, the old metallic lifeboat having been condemned and replaced by a self-righting, self-bailing boat on the Dobbin system.

The station has been inspected by me frequently in the course of the financial year,

the crew mustered and seen afloat.

The coxswain and crew are able, active men, and take great interest in their duties.

DEVILS ISLAND STATION, N.S.

Coxswain: G. de Young.

This station has been personally inspected on two occasions by me.

The lifeboat is in excellent order.

The coxswain and crew efficient and active.

The launching ways have been recently refitted and repaired.

DUNCAN'S COVE STATION, N.S.

Coxswain: John Holland.

A new coxswain was appointed in lieu of Lawrence Johnson.

The lifeboat and station were inspected by me in 1898; the whole station is in excellent order.

55

SESSIONAL PAPER No. 11

A Lyell gun and apparatus will shortly be established in compliance with a recommendation of the Halifax Board of Trade.

WHITEHEAD STATION, N.S.

Coxswain: H. P. Munroe.

This station was inspected by me in July, 1898.

The shelter crib-work was washed away by the late winter gales in 1898-9 and has now been reconstructed.

The lifeboat and station I found in excellent order. The coxswain and crew, active and able boatsmen.

SABLE ISLAND STATION, N.S.

I have not inspected this station during the financial year ending June 30 last.

In May, 1898, I visited the island and found boats, apparatus and the whole service in the highest order.

The station under your recent orders is now placed under the inspection of Mr. Hutchins, lighthouse inspector for the province of Nova Scotia.

PICTOU ISLAND STATION, N.S.

Coxswain: Alexr. Currie.

I visited this station in July, 1898, when I carefully inspected it. The crew were mustered.

The station is complete, and was in excellent order.

PORT MOUTON STATION, N.S.

Coxswain: J. Fransel.

Visited in July, 1898.

The coxswain and crew were mustered, and the station inspected. I found it efficient and in very creditable order.

Some necessary repairs have recently been effected.

SCATTARIE STATION, N.S.

Coxswain: A. Martel.

It was late in the evening in July, 1898, when I visited this station in the Dominion Government steamer Newfield.

I had no opportunity of mustering the crew, but the coxswain appeared active and efficient.

The station is in good order and effective.

ST. PAUL'S ISLAND, N.S.

Superintendent: Samuel Campbell.

This station is under the able and efficient control of that experienced officer.

A new self-bailing boat, built on a model submitted by me to the department, by

Mr. John Morrison, of Shelburne, has been established here.

Recently she was tested by Mr. Campbell in the heavy breakers, broadside on; she filled several times without capsizing and emptied herself quickly by the delivery scuppers.

Mr. Campbell reports the boat as being well adapted for the service.

A Lyell gun and complete apparatus will shortly be placed at this station, making it complete.

BLANCHE STATION, N.S.

Coxswain: W. A. Smith.

This station was visited and inspected by me in July, 1898.

It was proposed to transfer it-to Negro Island, which I visited, but recently it was decided by the department to retain the present station at Blanche.

On my visit I found the station in excellent order, the coxswain and crew able and efficient boatmen.

CAPE SABLE, N.S.

I visited this station in 1898, and found that the old metallic boat and the position of the boathouse were unsuitable to the requirements of the service.

A new self-bailing Beeby McClellan boat, built on my model, is now ready to be sent to this station to be placed in an available position with launching ways to the eastward and westward, when a coxswain and crew of six men will have to be appointed

SEAL ISLAND STATION, N.S.

Coxswain: H. Hitchins.

I landed at this station at a very early hour in July, 1898, and unexpectedly summoned the coxswain, who responded to my call without delay.

The station was carefully inspected and found to be in a most creditable state of efficiency: the coxswain and crew being active, well-trained boatmen.

WIND ISLAND STATION, N.S.

Coxswain: I. Pitman.

The station in its modified state is probably equal to any demand that may be made on it.

The number of wrecks that have taken place on this part of the coast during a long series of years do not indicate that any larger expenditure than that now incurred on the service is necessary,

The men on the island are active and appear to be desirous of laudably helping in case a wreck should occur.

YARMOUTH STATION, N.S.

Coxswain: A. Cain.

When I visited this station in 1898 I made a very careful inspection of it; and ordered the lifeboat, one on the Dobbin plan to be launched with her crew complete. I proceeded in her to the harbour at Yarmouth; took out the gear, parbuckled and capsized her in the presence of the coxswain and crew.

She righted instantly, and in a few seconds emptied herself of the water on the deck

through the scuppers.

The trial was an excellent one and enabled me to assure the coxswain and crews of all similar boats, that they could fully depend on the self-righting and self-bailing qualities of these boats.

CAPE TORMENTINE STATION, N.B.

I visited this station in November, 1898, and under your instructions gave orders for the removal of the lifeboat and gear to Halifax, the station being abandoned.

The boat was repaired and refitted and is now at Herring Cove, N.S.

COBOURG, ONTARIO.

Coxswain: D. Rooney.

This station was visited by me in October, 1898, the coxswain and crew mustered, the lifeboat launched and inspected afloat.

I found everything in excellent order, the coxswain and crew efficient men.

PORT HOPE STATION, ONTARIO.

This station was visited and inspected in October, 1898.

As it is only seven miles to the westward of Cobourg, there did not appear any necessity for its maintenance under the usual rate of expenditure for a paid coxswain and crew.

Under the orders of the department the station has been placed in the charge of the harbour authorities, who will doubtless maintain it to meet any requirement likely to be made upon it.

PELEE ISLAND, ONTARIO.

Visited by me in October, 1898.

I found the station in abeyance, its removal to another more eligible position being under the consideration of the department.

The coxswain, Mr. A. Henning, although unpaid retains the charge of the lifeboat, stores and appliances.

Everything was in very good order.

Pelee Point on the mainland was reported to me to be the most eligible site, there now being more shipping plying in that part of the lake than near Pelee Island where the trade by sailing vessels is inconsiderable.

COLLINGWOOD STATION, ONTARIO.

I also visited this station in October, 1898.

The coxswain P. Doherty.

It was blowing hard with a heavy sea outside the harbour.

The coxswain and crew were mustered promptly, and I took the boat outside in the sea-way.

She answered very well, the coxwain and crew being efficient.

The station is in excellent order.

GODERICH, ONTARIO.

Coxswain: W. Babb (since superseded).

This station was visited in October, 1898. Since then a new coxswain has been appointed.

The lifeboat and gear were in good order.

I had no opportunity of mustering the crew, or testing their qualifications, being pressed for time.

PORT ROWAN STATION, ONTARIO.

Coxswain: R. Clark.

This station was also visited in October, 1898.

The boat although not one of the Dobbin, or Beeby McClennan class is fully equal

to the requirements of the locality.

The boat-house is small and inconvenient, but as the owners of the land on which it stands have applied to have it removed a new one will have to be built on the established plan which will afford the requisite accommodation.

The boat and gear were in good order and fit for the service.

PORT STANLEY STATION, ONTARIO.

Coxswain: W. Berry.

When I visited this station the lifeboat was under extensive repairs.

The station was in good order, and the coxswain and crew quite competent to perform their duties satisfactorily.

TORONTO STATION, ONTARIO.

Coxswain: W. Ward.

This station was visited and inspected in October, 1898. The coxswain and crew were mustered, the boat launched.

Everything was in good order and fit for service.

HALIFAX, N.S.

Under your instructions a Dobbin lifebeat is now under repair, to be stationed here, ready for service to be sent to vessels in distress by steam tug or other vessel when the boats at Devil's Island, Herring Cove, or Duncan's Cove are not available.

A Lyell gun and apparatus is also ordered to be maintained here in readiness to be

sent to any part of the coast when occasion requires.

These have been authorized by the department, in compliance with the recommendation of the Halifax Board of Trade, with whom I had the pleasure of co-operating early in the spring of this year.

My recommendation as to effecting improvements or changes in the life saving service, will be submitted to you with the general regulations now under my revision in

pursuance of your orders.

I have the honour to remain, sir,

Your most obedient servant,

BLOOMFIELD DOUGLAS, R.N.R., Naval Assistant, Marine and Fisheries Department.

STATEMENT

RELATIVE TO

LIFE-BOAT STATIONS

63 VICTORIA, A. 1900 STATEMENT relative to Life-Boat Stations

| Number. | Stations. | Established. | Coxswain. | Number of Crew. | Salary of Coxswain. | Wages of Crew. |
|---------|-------------------------------|------------------------|--------------------------------|-----------------------|-----------------------------------------|-----------------------------------------------------|
| | Blanche, N.S | | | | \$75 per annum and \$1.50 each drill | |
| | Cape Sable, N.S Cobourg, Ont | bailing boat built. | | | \$75 per ann. \$1.50 | \$1.50 each drill twice a month |
| 4 | Collingwood, Ont | Sep.—, 1885 | P. Doherty | 6 | H H | for 7 months. |
| 5 | Consecon, Ont | Mar, 1883 | H. McCullough. | 6 | | , , , , , , , , , , , , , , , , , , , , |
| 6 | Devil's Island, N.S | 1885 | G. de Young | -6 | " " | " |
| 7 | Duncan's Cove, N.S | 1886 | J. Holland | 6 | " " | " |
| 8 | Goderich, Ont | Oct. 2, 1886 | | 6 | " " | |
| 9 | Herring Cove, N.S | | J. Dempsey | 6 | " " | " |
| | Mud Island, N.S | 1 | | ized crew. | _ | 1 |
| | Pelée Island, Ont | 1 | | | | #1 FO J. J.:31 |
| | Pictou Island, N.S | ! | } | | \$1.50 each drill | \$1.50 each drill twice a month for 7 months. |
| | Poplar Point, Ont | i | | i | 1 | · |
| | Port Hope, Ont | į. | | 1 | | |
| 15 | Port Mouton, N.S | , 1889 | J. Frausel | 6 | \$75 per annun \$1,50 each drill. | \$1.50 each drill twice a month for 7 months. |
| | Port Rowan, Ont | | | 1 | " " | |
| 17 | Port Stanley, Ont | June—, 1885 | W. Berry | 6 | 11 11 | " |
| 18 | Sable Island, N.S | 1885 | Supt. Humane Establishment. | | Humane Establishment | |
| 19 | Scatterie, N.S | 1885 | F. Martel | 6 | \$75 per annum \$1.50 each drill. | \$1.50 each drill |
| 20 | Seal Island, N.S | 1880 | H. Hitchins | 7 | \$250 per annum | \$100 each per |
| 21 | Seal Cove, N.B Grand Manan | Dec. 2, 1898 | F. Benson | 6 | \$75 per annun \$1.50 each drill | twice a month, |
| 22 | St. Paul Id., N.S | | Supt. Humane Establishment. | | | for 7 months Paid asstaff Humane Establishment |
| 28 | Toronto, Ont | Mar,1883 | W. Ward | | \$75 per annum | |
| 24 | Whitehead, N.S | June —,1890 | H. P. Munroe | 6 | | for a months. |
| 20 | Yarmouth, N.S | 1886 | A. Cain | 6 | | |

Halifax, N.S., December 5, 1899.

SESSIONAL PAPER No. 11
maintained by the Dominion Government.

| Description of Boat. | | | | Equipme | ent. | Where I | Built. | Cost. | Remarks. |
|----------------------------------------------------------------------------------------|--------------------------------|-------------------------|--------|------------|---------------------|--------------------------------------------|-----------|-------|------------------------------------|
| Self-righting and self-bailing, 25 feet over all, 8 feet beam Dobbin's | | | | required | Dartmout | h, N.S. | \$ 575 | | |
| pattern. Station in cours old metallic l boathouse, & Self-righting, s all, 8 feet bes | c., proposed elf-bailing, 2 | 25 feet over | Full r | regulation | | Goderich, | Ont | 575 | |
| Self-bailing, 27 | • | - | ., | 11 | | Collingwo | od,Ont | 360 | |
| beam. Self-bailing, s | | - | | | | Dartmout | h, N.S. | 1,400 | Including carriage. |
| p att ern. | 11 | , | ., | " | | | | 575 | |
| 11 | 11 | , | 11 | *1 | | 11 | | 575 | A Lyell gun, and |
| 11 | 11 | | ., | 11 | | ,, | | 575 | apparatus to be established here. |
| ,, | | , | | 11 | | •• | | 575 | |
| Fishing boats, | and dories. | one fitting | | | | •• • • • • • • • • • • • • • • • • • | | | |
| with air case Removal of sel | b | |) | | | 1 | | i ' | |
| Self-bailing, s | ce under con | sideration. | } | | | į. | | 1 | |
| pattern. | | | • | • | | | | | |
| 11 | , | • | 1 | | | Buffalo, N | | 1 | |
| Self-rigthing, s | elf-bailing l | oost under | | · · | • • • • • • • • • • | Goderich, | Ont | 620 | |
| Self-righting a patten. | nd bailing | Dobbin's | Full 1 | regulation | | Dartmout | h, N.S. | 575 | |
| Surf-boat, 26 f | t, long. 6½ be | am | ,, | ** | | Buffalo, N | ı.s | 375 | |
| Self-righting, se | elf-bailing D | obbin's pat- | | 11 | | Goderich, | Ont | 575 | |
| tern. Two Dobbin' bailing boats | s, self · rig | hting and -McClellan | | ** | •••• | Halifax, I | v.s | 1,100 | Lyell guns and rocket apparatus |
| self bailing b Self-righting a boat on east | oat. | | 1 | 11 | | Dártmout | | 1 | at this station. |
| Beebe-McClell | ife-boat, wes an boat or | t side. | 1 | ** | | Halifax, I | v.s | 375 | |
| surf-boat on Beebe-McClell feet, 7 feet | an self-bailir | ng, boat 25 | | ** | •••• | Shelburne | , N.S | 250 | |
| Beebe-McClell feet beam. | an boat, 2 | 4 feet, 6½ | 1, | " | | ,, | | 250 | A Lyell gun and apparatus to be |
| Beebe-McClell | an self-baili 7 feet bear | ng boat, 27 m. | " " | " | •••• | Halifax, I | N.S | 250 | established here. |
| feet over all, | | | 1 | | | | | 1 | 1 |
| feet over all, Self-righting, a bin's pattern | self-bailing, | boat, Dob- | " | u · | | Dartmout | h, N.S | 575 | 7 1 1 1 |

BLOOMFIELD DOUGLAS, R.N.R., Naval Assistant,
Marine and Fisheries Dept.

APPENDIX No. 11.

MESSENGER PIGEONS.

HAZEL HILL, GUYSBORO' Co., N.S., December 5, 1899.

The Deputy Minister of Marine and Fisheries, Ottawa, Ont.

SIR,—During the past season, the training of the messenger pigeons has been entered into more thoroughly than during any previous season since the birds have been located here, and the results, on the whole, have been more satisfactory than those hitherto attained.

I am, however, again forced to the conclusion that we cannot hope by such means to secure communication between here and Sable Island, which would be to the smallest extent reliable, or of any service to your department.

Birds have been flown as in the accompanying statement.

On October 28, six birds were sent to Guysboro', and flown from there, but of these only one returned to Hazel Hill. Upon my return journey from Guysboro to Hazel Hill on the 29th, I saw two of these birds in the woods about 8 miles from Guysboro, but they flew off in the opposite direction to their home. This is the longest distance we have flown them, and considering that the distance was only 30 miles, I do not think the result promises well for the much greater distance to Sable Island.

On October 4, the Halifax agent of your department wired me that SS. *Minto* en route to Sable Island would call here for birds. Sixteen well trained birds were promptly got ready for transportation to Sable Island, but as the *Minto* failed to call, the only result was that the birds were kept in cramped quarters for 48 hours. It is much to be regretted, that such an opportunity to make a valuable test should have been lost.

Captain Kelley of the SS. John L. Cann, has rendered valuable service in taking birds across and flying them from the opposite side of the Chedabucto Bay, and in this way the most satisfactory results have been obtained, but I have found difficulty in getting the birds taken in other directions, as whilst people do not mind carrying a basket occasionally, they demur at doing so as a regular thing, and consequently, a systematic long distance training in all directions, will necessitate your department defraying transportation expenses.

If your department wishes the training to be continued, I must ask them to vote a more liberal amount for the purpose. During the past two years, my time has been so fully occupied, and business has called me from home so often, that I have been able to devote but little of my time to the pigeons. Mr. F. Lawson, who manages them very thoroughly, has practically had complete charge of the birds, but they occupy the whole time of one person, and your department can scarcely expect to receive the services of a

competent man for eleven dollars per month.

Whilst dealing with the subject, you will perhaps pardon me for expressing the opinion, that I think your department might profitably direct its attention to wireless telegraphy as a mean of establishing communication with Sable Island. Within the past few months, Signor Marconi has amply demonstrated, that his system of wireless telegraphy is both practicable and reliable, as a means of obtaining communication between points separated by considerable stretches of water. Within a distance of about eighty miles, it is no longer an experiment, and Signor Marconi firmly believes that he can increase this distance. I consider Hazel Hill a very favourable point from which to operate such a system, as it stands at an elevation of about 150 feet above sea evel with no intervening high land between it and Sable Island, and this initial eleva-

tion would prove decidedly advantageous. I am quite sure that the company, which I have the houour to represent, would render the Government every possible assistance in endeavouring to establishing such a means of communication, and its maintenance could from this point receive the attention of expert electricians and telegraphists. The system of wireless telegraphy as installed on and operated from our cable repairing steamer *Mackay-Bennett*, for the purpose of reporting the recent international nacht races, was quite a success.

I beg to remain, sir,

Yours truly,

S. S. DICKINSON.

Notes.

There are now about 120 pigeons in the house, seventy old and fifty young.

Thirty birds were hatched in May and June, had no rings to put on them when hatched. Have put split rings on them since, twenty young birds flying. The old birds do not seem to go out much. The birds have been sent to Arichat, C.B., and Guysboro', N.S., and various points between, and the majority of them have returned. Have lost about ten in training. The birds are now in good condition. We want about four training baskets to hold two birds each. I find when a number of birds are put in a basket together they fight and tumble over each other and get tired and much soiled.

A register book is required. The one here is all filled up. If the birds remain

here this winter will require six barrels, food, four of corn and two of pease.

I am not allowing the birds to breed as there are too many now. Less of them would be better. The twenty young birds flying daily are making good progress in training for the opportunities offered. It is difficult to transport the birds to the various points just at the time required, thus impeding the advance I would like.

(Extracts from notebook of F. Lawson, caretaker.)

S. S. DICKINSON.

TRAINING MESSENGER PIGEONS, SEASON 1899.
Statement showing number of miles flown by each bird.

(Figures in body represent miles.)

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| id not return on Oct. 28. | Did not return on Oct. 28 Died on Sept 2. | Did not return on Oct. 20, but returned 2 days later. Sept. 8, 3 un. n um be returned birds flown 10 miles. |
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* Birds without rings.

APPENDIX No. 12.

REPORT OF THE CHAIRMAN OF THE BOARD OF STEAMBOAT INSPECTION.

CHAIRMAN'S OFFICE,

OTTAWA, November, 1899.

Sir Louis H. Davies,
Minister of Marine and Fisheries,
Ottawa.

Sir,--I have the honour to submit my annual report of the Steamboat Inspection Service for the fiscal year ended June 30, 1899.

The report contains statement of board meetings held during the year; the casualties reported as having occurred, and prosecutions for violation of the Steamboat Inspection Act with the number of steamboats registered in the Dominion as known to the inspectors; form No. 1, showing the steamboats which were inspected; form No. 2, steamboats not inspected; form No. 4, the number of steamboats added to the Dominion; form No. 5, the number of steamboats lost, broken up or otherwise put out of service; and form No. 1 A, showing the number of steamers inspected, being registered elsewhere than in the Dominion.

Table A shows the number of steamers as reported by the inspectors in the several divisions, with their gross tonnage; also, the number of steamers inspected but not registered in the Dominion, with their tonnage; table B the amount of dues and fees collected on account of steamboat inspection; and table C the number of steamboats added to the Dominion, with their gross and registered tonnage.

In addition to the steamboats inspected at the port of Montreal; the hoisting gear and ships' tackle of 459 vessels, used for the purpose of loading and unloading those vessels, was inspected by Mr. Louis 'Arpin, who was appointed for said purpose, and also that of a steamboat boiler and machinery inspector, when not otherwise employed.

A.—Number of Steam Vessels as reported by the Inspectors of Steamboats in the Dominion, and their gross tonnage, for the year ended June 30, 1899. Also, the number of Vessels inspected but not registered in the Dominion for same date.

| Division. | Total number of Do- minion Steamers. | Gross tonnage of Dominion Steamers. | Number of Steamers inspected but not registered in the Dominion. | Gross tonnage of Steamere inspected but not registered in the Dominion. |
|-----------------------------------------------|-----------------------------------------|-------------------------------------|------------------------------------------------------------------|----------------------------------------------------------------------------------|
| West Ontario, Huron and Superior | 375 166 | 71,568·00 26,224·15 | 33 37 | 15,535·00 4,851·52 |
| Montreal | 207 | 21,476 67 | Nil | 4,601 02 |
| Quebec | 129 | 33,726 00 | 1 | 1,091 00 |
| Nova Scotia | 126 | 23,438 99 | 19 | 26,019 19 |
| New Brunswick and Prince Edward Island | 132 | 15,839 38 | 3 | 5,009 39 |
| British Columbia | 178 | 38,176 19 | 30 | 35,278 45 |
| Manitoba, Keewatin and North-west Territories | 114 | 5,808 55 | 1 | 329 00 |
| • | 1,427 | 236,257 93 | 124 | 88,113 55 |

B.—Dues and Fees collected on account of Steamboat Inspection during the year ended June 30, 1899.

| Division. | Amount | ; . |
|-------------------------------------------------------------------------------------------------|--------------------|------------|
| | | eti |
| West Ontario, Huron and Superior | 8,490 9 | |
| Ameston | 3,544 | |
| Montreal Quebec | 2,652 } | |
| Nova Scotia. | 3,506 (4,556 2 | |
| New Brunswick and Prince Edward Island | 2,218 | |
| British Columbia | 7 305 1 | |
| Manitobs, Keewatin and North-west Territories. Inspecting tow barges. Singineers' certificates. | 756 | |
| nspecting tow barges | 130 (| 00 |
| Ungineers' certificates | 910 (| Œ |
| | 34,159 | 67 |

C.—Number of Steam Vessels added to the Dominion during the year ended June 30, 1899.

| Division. | Number of Vessels. | Gross Tonnage. | Register Tonnage. |
|--------------------------------------------------------------------------------------------------------------------|--------------------------|----------------------------------------------|------------------------------------------|
| West Ontario, Huron and Superior. Kingston Montreal Quebeg | 11 11 8 | 4,791·00 1,818·80 1,646·11 1,173·78 | 2,656 00 1,016 73 894 08 919 58 |
| Nova Scotia New Brunswick and Prince Edward Island British Columbia Manitoba, Keewatin and North-west Territories. | 7 Nil 43 | 578 · 53 11,310 · 33 472 · 54 | 307 · 13 6,880 · 34 278 · 51 |
| | 112 | 21,791 · 09 | 12,952 · 37 |

BOARD MEETINGS.

A meeting of a quorum of the Board of Steamboat Inspection was held at Kingston from 20th to 28th March inclusive, being composed of Mr. I. J. Olive of St. John, N.B., and Mr. Wm. Evans, of Toronto, hull inspectors, with the chairman E. Adams.

The meeting was for the purpose of examining candidates for the position of hull inspector for East Ontario Division, rendered vacant by the retirement of Mr. T.

Donnelly who formerly retained the office.

Mr. Alex. Horn, who passed a satisfactory examination, with proofs as to fitness; was recommended as qualified for the position, and was appointed by Order in Council of May 10, 1899, at a salary of \$1,000 per annum.

A meeting of the Board was also held at Toronto, from 29th to 31st May inclusive, composed of Jas. Johnston and John Dodds, boiler and machinery inspectors of Toronto,

with the chairman E. Adams.

The meeting was held for the purpose of considering a revision of the rules governing the strength of circular machine-made furnaces; to meet in conformity with British Board of Trade rules; together with rules for determining a standard for strength of spherical heads, as existing in steam drums of modern water tube boilers.

Rules being formulated, were submitted under sec. 6, 61 Vict., chap. 46 of the Steamboat Inspection Act, for consideration and approval of the Governor in Council.

 $11 - 5\frac{1}{2}$

CASUALTIES.

The following are the casualties reported from the several divisions as having occurred; in which it is shown, by the foundering of steamer City of Hinsworth in a strong gale on Kootenay Lake, nine lives were lost, six of whom were the crew, and three passengers. Also by the burning of tug H. F. Bronson on River St. Lawrence, two of the crew who jumped overboard were drowned.

West Ontario and Huron Division.

August 5, 1898.—Steam tug P. M. Campbell of Collingwood, was totally destroyed by fire at Manitowaning; cause of fire unknown.

August 13, 1898.—Steam tug Ainsley of Owen Sound, was totally destroyed by

fire at South Bay, Manitoulin Island; cause of fire unknown.

September 17, 1898.—Steamer J. H. Jones of Goderich, while coming out of Kagawong, Manitoulin Island, collided with the steamer Pacific of Owen Sound, and sank; was again raised, and taken to Owen Sound dry dock, where the necessary repairs were made.

November 2, 1898.—Steamer Pacific of Owen Sound, was totally destroyed by fire at Collingwood, while lying at the Grand Trunk Railway wharf, from the cause of warehouse on the wharf taking fire, which extended to the steamer.

November 7, 1898.—Steamer Northern Belle of Collingwood, while entering Byng

Inlet, took on fire, and was totally destroyed; cause of fire unknown.

May 13, 1899.—Steamer Hamilton of Montreal, while on Lake Ontario en route for Toronto, broke the cross-head of engine; temporary repairs were made permitting her to proceed on to Toronto, where a new one was provided.

East Ontario Division.

August 23, 1898.—Steamer Golden City of Peterboro, while lying at Lakefield

wharf was totally destroyed by fire; cause unknown.

October 22, 1898.—Tug James A. Walker of Kingston, while on a trip from Charlotte to Kingston, encountered a heavy gale on Lake Ontario, was swamped, and sank off Nicholsons Island; no lives were lost.

December 5, 1898.—Steamer Arabian of Hamilton, on a voyage from Fort William to Prescott, when on Lake Ontario broke the connecting rod on high-pressure cylinder, which caused the breaking of the cross-head, starboard column, and cylinder bottom.

The steamer was towed to Kingston, where the necessary repairs were made.

June 22, 1899.—Tug H. F. Bronson of Montreal, on a trip from Montreal to Kingston took on fire near Alexandria Bay, River St. Lawrence, and was run aground to save the lives of the crew, two of whom jumped overboard and were drowned. The fire was extinguished, and boat was towed back to Kingston for repairs. Cause of fire unknown.

Montreal Division.

July 8, 1898.—Tug Monarque of Montreal, while towing from Carillon to St. Anns on the Ottawa River, broke her port paddle shaft which was of cast iron, and showing a flaw where broken, it was replaced by one of wrought iron.

August 29, 1898.—Grain Elevator No. 4, whilst lying alongside of SS. Hurona of Dundee, in the port of Montreal; caught fire from some unknown cause and was par-

tially destroyed. Damage about \$800.

September 8, 1898.—Tug Ida of Quebec, while proceeding from Lachine to Beauharnois with barges in tow, collided with the passenger steamer Algerian of Montreal, destroying the tug's upper works, but causing no damage to the Algerian. No loss of Cause, the tug's signal lights were not lit.

June 25, 1899.—Tug Dandy of Montreal, while crossing from Coteau Landing to Valleyfield with a tow of barges, broke her crank pin, owing to a flaw in the metal; it was replaced with a new one.

Quebec Division.

November 19, 1898.—SS. Otter, while on a voyage from Natasquan to Quebec, was stranded on White Island reef and became a total loss. No loss of life.

February, 1899.—SS. Acadian, on a voyage from Halifax to Louisbourg, ran on a rock and became a total wreck. No loss of life.

March, 1899.—The steam wrecking schooner Anna McGee when leaving the wreck of steamer Castilian on Garnet Rock, N.S., struck on a reef, and became a total loss.

July 21, 1899.—Paddle steamer Mistassini, plying on Lake St. John, while lying at her wharf at Roberval, took fire, and was burned to the water's edge.

Nova Scotia Division.

October 7, 1898.—Steamer Blue Hill of Sydney, N.S., while on a voyage from Baddeck to Grand Narrows, broke the port propeller shaft close to after coupling, was worked into port with the starboard engine, when a new shaft was fitted.

January 5, 1899.—Steamer Alpha of Windsor, N.S., while on a voyage from Yarmouth to Halifax, broke her shaft close to propeller wheel; was towed to Halifax, and fitted with a new shaft and propeller wheel.

New Brunswick and Prince Edward Island Division.

July 29, 1899.—SS. David Weston broke the pin in cylinder end of walking beam, while on her trip from St. John to Fredericton; was towed to St, John, and repaired.

September 12, 1899.--SS. Miramichi broke her crank shaft, while on her regular route; was replaced with a new one.

October 15, 1898.—Steam tug Captain sunk at Marble Cove, caused by a cock having been left open; was lifted again and repaired.

November 30, 1898.—SS. Olivette was burned while lying on Hilyard's Marine

Dock, on the blocks; a total loss.

March 22, 1899.—SS. Storm King broke her crank shaft while at work in St.

John Harbour; a new one was fitted.

April 24, 1899.—SS. Prince Rupert broke her port paddle-wheel, and started both cranks on low-pressure shaft, by striking some floating obstruction, when about six miles from Digby Gut; finished her trip and returned to St. John with one paddlewheel, where she was repaired.

Manitoba, Keewatin and North-west Territories.

July 22, 1898.—Steamer D. L. Mather while moored to the wharf at Keewatin, caught fire from some unknown cause; the boat was scuttled, and sank; was afterwards raised and repaired; the estimated loss was about \$3,000.

British Columbia Division.

July 2, 1898.—Steamer Marquis of Dufferin in tow from Victoria to Yukon River. foundered in a gale off Cape Beale, Vancouver Island; no loss of life.

August 1, 1898.—Steamer Stickeen Chief in tow from Wrangel to Yukon River,

foundered in gale off Yankutat, N. Pacific; no loss of life.

September 8, 1898.—Steamer Rossland 2.15 a.m., on passage from Robson to Arrowhead, Columbia River, struck tug Fawn forward of pilot-house, cutting her in two. The signal lights of Fawn were not burning; Rossland uninjured, Fawn since repaired.

September 11, 1898.—Steamers Edgar, Bon Accord and Gladys; fire at New Westminster wharfs and water front, destroyed above steamers, which burned to water's edge; filled and sank in deep water; no lives lost.

September 16, 1898.—Steamer Barbara Boscowitz, on passage to Fort Simpson, struck on reef about three miles from Kitkathla, remained and filled, was afterwards

raised, brought to Victoria and repaired.

November 29, 1898.—Steamer City of Ainsworth, 7.30 p.m., foundered in a strong gale, six miles south of Pilot Bay, Kootenay Lake; nine lives were lost, three passengers, and six of the crew.

February 1, 1899.—Steamer Greenwood, laid up on account of ice at 'Okanagan

Falls' Dog Lake, caught fire from an overheated stove, and was destroyed.

March 25, 1899.—Steamer *Lees*, 1.30 a.m., stranded on Thorburn Island, Seaforth Channel, remained twenty-two hours, floated off without assistance, proceeded to Victoria,

was placed on marine ways and repaired.

June 19, 1899.—Steamer Danube struck on Kelp Bar, north end of Denman Island, filled and sank to main deck, was raised, brought to Victoria, and placed on marine railway; damage seven plates on starboard side fractured and dented, which were renewed.

PROSECUTIONS WITH PENALTIES ENFORCED FOR VIOLATION OF THE STEAMBOAT INSPECTION ACT.

September 21, 1898.—Steamer Temiscamingue of Ottawa was seized at Temiscamingue by orders of collector of customs for violation of the Steamboat Inspection Act,

by carrying passengers without having the necessary certificate for so doing.

The Department of Marine and Fisheries took steps to institute proceedings for the infliction of the penalty, when the owner voluntary agreed to pay a modified fine of \$100, which was deposited to the credit of the Receiver General, in Bank of Montreal, November 16, 1898.

August 29, 1898.—Steam tugs *Pinafore* and *Merina* violated the Steamboat Inspection Law, by towing a barge with passengers on board from Round Hill to Digby,

N.S., the barge not having been certificated for such as required by law.

The matter was brought to the attention of the department, who on investigation found it had been done through ignorance of the law, and as it was their first offence brought to the notice of the department; under the circumstances a nominal fine of \$10 each was imposed, which was forwarded to the department by draft No. 301, November 1, 1898.

April 6, 1899.—Proceedings were ordered to be taken against steamer Clinton for violation of the Steamboat Inspection Law, by having in charge an engineer not having

the necessary certificate required, qualifying for such class of vessel.

Information was laid against the owner, captain and engineer. The case was tried before the county judge at Toronto, who found the owner and engineer guilty; and inflicted on each a fine of \$50 and costs, amounting in all to \$107.40 which was received by deposit receipt, Bank of Montreal, to the department by letter of July 18, 1899.

I am, sir,

Your obedient servant,

EDWARD ADAMS, Chairman Board of Steumboat Inspection.

STRAM Vessels Inspected for the Year ended June 30, 1899.

WEST ONTARIO DIVISION.

BOILERS AND MACHINERY.

| Name of Vessel. | Number of Passen- gers Allowed. | Certi | ate ficate ires. | Gross Tons. | Tonnag Dues an Inspecti Fees Pa | nd ion | l . | ss of Vessel and where employed |
|-------------------------------------------------------------------------------------------------------|------------------------------------------|-------|------------------------|----------------|------------------------------------------|-----------|--------|---------------------------------|
| | | 18 | 399 , | | \$ | ets. | | |
| Conqueror | 40 | July | 11 | | 7 | 00 | Screw, | Orillia to Barrie. |
| Annie C. Hill | Yacht | ' " | 11 12 | 14 7 | | 12 56 | " (| Lake Simcoe. |
| Sea Flower Mink | 40 " | " | 13. | | | 04 | | Muskoka Lakes |
| Wanda | Yacht | | 13 | 12 | 5 | 96 | | " |
| vmoca | 40 | | 13 | 25 | 7 | 00 | | u |
| lennie Wilson | Tug | ,, | 14 | 7 53 | 5 | 56 | | 11 |
| Rosseau | 177 | . ,, | 14 14 | | | 24 32 | | • |
| Mamon o | V acht | | 14 | 5 | | 40 | | |
| | | | 15 | 19 | 6 | 52 | | ** |
| outhwood | } | . " | 15 | | | 52 | | 11 |
| Kortha Matr | 11 | . ,, | 15 | 20 | | 60 32 | | ** !! |
| Vaiad | Tue | Not i | GI | 29 16 | | 28 | | " |
| Allena May Intorio | rug | July | 16 | 11 | | 88 | | " |
| OntarioEthel May | Yacht | " | 16 | 13 | | 04 | | 11 |
| ake Joseph | Tug | | 16 | 28 | | 24 | | · · |
| Aaple Leaf | Yacht | | 18 | 12 | 11 | 96 | | |
| Maple Leaf | 100" | Not I | ssued | 7 106 | | 12 48 | | Lakes at Huntsville. |
| impress victoria | Tue | July | 20 | 27 | | 16 | | 11 |
| em. | " | " | 21 | | 5 | 72 | ., | u . |
| ylvester. Jem. Jenstus Wiman Florence. dary Louise Lady of the Lake. Equal Rights. Waubaushene | | ,, | 21 | 54 | | 32 | | |
| lorence | " | ,, | 22 | 27 | | 16 | | Lake of Bays. Portage Lake. |
| Mary Louise | Tue | " | 22 22 | 64 10 | 10 | 80 | | Lake of Bays. |
| ∡ady of the Lake Coust Rights | Yacht. | " | 22 | 6 | | 48 | | " |
| Waubaushene | Tug | Aug. | 15 | 97 | 12 | 76 | " | Georgian Bay. |
| | | | 10 | 33 | 7 | 64 | Paddle | e, Sturgeon Bay. |
| Sea Gull. John William. Queen City. | | | 16 | . 9 | 5 | 72 | | Georgian Bay. |
| ohn William | 998 | ** | 17 19 | - 14 312 | 32 | 12 96 | " | Toronto and Niagara. |
| Jueen City. essie L. McEdwards illian stiletto. May Flower Home Rule | Tug | 11 | 22 | 21 | | 68 | | Lake Ontario. |
| illian | Yacht. | | 29 | 5 | 5 | 40 | " | Georgian Bay. |
| Stiletto | 30 | - 11 | 16 | 14 | | 12 | | Waubaushene to Moon River. |
| May Flower | Tug | - " | 16 | 14 | | 12 | ì | Georgian Bay. |
| dome Kule | Yacht | June | 24 | 3 57 | | 28 56 | " | Lake Ontario. |
| Julio J. S. Blazier W. A. Rooth Edgar P. Sawyer Philadelphia Jerbert | Tug | Dept. | 12 | 44 | | 52 | | Georgian Bay. |
| J. S. Blazier | " | Not i | ssued | 89 | 12 | 12 | 11 | The Lakes. |
| W. A. Rooth | # | Sept. | 20 | 52 | | 16 | | Lake and River. |
| Edgar P. Sawyer | 11 | " | 20 | 52 | | 16 | | Montreal and Duluth. |
| ?hiladelphia | Tur | ** | 21 | 148 21 | | 68 | | St. Mary's River. |
| lea Gull | lug | , | 22 | 41 | | 28 | | If |
| Sea Gull | | | 24 | 55 | 9 | 40 | " | Lake Superior. |
| ordon Gauthier | , | | 24 | 26 | | 08 | | TT . |
| Ann Clark | | | 24 | 51 | | 08 08 | ", | 0 11 |
| Susan C. Doty | 1 | Not i | 26 ssued | 26 6 | | 48 | [", | St. Mary's River. |
| slander | | Sent. | 29 | 26 | | 08 | ,, | Lake Huron |
| Agnes C | | 11 | ου | 20 | 6 | 60 | | North Channel. |
| Bertha Endress M. G. McDonald | | _ " | 30 | 32 | 7 | 56 | | St. Mary's River. |
| | | | 3 | 29 | | 32 88 | " | Lake Huron. do |
| ames McKeon | " | 11 | 3 | 36 16 | | 28 | | do do |
| P. S. Hiesordt | | | 3 | 45 | | 60 | | do |

^{*} Fees and dues for 1897 and 1898.

STEAM Vessels Inspected, &c.—West Ontario Division—Continued.

BOILERS AND MACHINERY—Continued.

| Name of Vessel. | Number of Passen- gers Allowed. | Certi | ate ficate ires. | Gross Tons. | Tonnag Dues an Inspect Fees Pa | nd ion | Class | s of Vessel and where employed |
|----------------------------------|------------------------------------------|---------|------------------------|----------------------|-----------------------------------------|----------------|------------|--------------------------------|
| | ! ! | 18 | 99. | | \$ (| ts. | | · |
| Camilla | 15 | Oct. | 3 | 54 | 9 | 32 | Screw. | Pt. aux Pins to Thessalon. |
| Scotch Thistle | 30 | | 4 . | 17 | | 36 | 11 | Killarney to Algoma Mills. |
| Georgia | | 11 | 4 | 28 | | 24 | " | Lake Huron. |
| Alpha Fanny Arnold | 10 | | 4 | | | 72 | | Georgian Bay. |
| Fanny Arnold | 25 | | 4 | | | 84 | | Kiliarney to Soo. |
| John Harrison Evangeline | Vocht | " | 6 6 | 44 24 | | 52 92 | ", | Lake Huron. |
| Gertrude A. Rennie | Tue | | 6 | 14 | | 12 | | 11 |
| Maggie May | 40 | 1 " | 7 | 46 | | 68 | | Killarney and Thessalon. |
| Creole | Tug | 1 | 7 | 21 | | 68 | | Lake Huron. |
| Uncle Jim | | | 7. | 11 | | 88 | | North Channel. |
| Ethel \dots | | | 8 | 13 | 6 | 04 | | Georgian Bay. |
| Cynthia Maida Surprise | 137 | | 8 | | | 80 | ! | " |
| Maida | Yacht | . " | 8 | | | 24 | | 34.11 B . 700 ~ |
| Surprise | 10 | - T | . 10. ; | 19 | | 52 | 1 | Meldrum Bay to Little Curren |
| Fecumseh | 11ug | Not I | ıssuea 11 | | | 80 16 | | Lake Huron. |
| iraron bene | ** | | | 21 | | 10 | " | п |
| or | loop | 1 | 98. | | | | | O. 112 |
| City of Windsor | 300 | | 30 | 511 | 44 | 88 | " | Collingwood to Soo. |
| | 1 | 1 | 99. | | | | | |
| Edna | <u>.</u> | Not | issued | 55 | | 40 | 1 | |
| Mascot. | Tug | Nov. | 29 | 21 | | 68 | | Georgian Bay. |
| James Playfair | | . " | 29 | | | 08 | . 1 | н |
| Laura M | Vacht. | " | 30 30 | | | 44 44 | | " |
| James Storey | | | 1 | | | 92 | | 11 |
| runes indicy | Teight. | 1 |)00. | 1 | | - | 1 | " |
| Ada Alice | 100 | } | ch 2 | 53 | Q | 24 | ., | Toronto and Island. |
| Eurydice | | | | | | | | , Lakes and River. |
| Luella | | | 20 | | | 04 | Screw. | Toronto and Island. |
| Bob Foote | Tug | , | 22 | | 8 | 12 | | Georgian Bay. |
| Hugh S Orcadia | .' | , | 22 | 24 | 6 | 92 | | " |
| Orcadia | | | 22 | | | 08 | | 11 |
| Saucy Jim | | . " | 22 | | | 44 | | 11 |
| Dalton McCarthy | | ST" | . 22 | 54 | . 9 | 32 | | T -1 C |
| Felegram Dredge Dalt.McCarthy | | Not | rocie | l 196 | 23 | 84 | " | Lake Superior. |
| Maud S | Tug | Apri | 1 57 1 68 18 (| 14 | 6 | 92 | | Georgian Bay. |
| City of London | | | 24 | | | 28 | | Kingston to Quebec. |
| Fred A. Hodgson | Tug | | 24 | | | 04 | | Georgian Bay. |
| Lillie | " | | 24 | 50 | | 00 | | 11 |
| Lillie | Dredge | Not | regist | tered | 1 | | | _ |
| lity of Toronto | . 4 QO | . Apri | 1 25. | 782 | 70 | 56 | Paddle | , Penetang and Soo. |
| W. J. Aikens | Tug | | 25 | 42 | 8 | 36 | Screw, | The Lakes, |
| City of Parry Sound | 280 | | 25 | | | 28 | | Collingwood and Soo. |
| Majestic | | | 26 26 | | | 92 | | and Duluth. |
| Atlantic | | | 26 | | | 64 | | and Soo. |
| City of Collingwood | | | 26. | | | | | " and Duluth. |
| | | | 27 | | | | | O. Sound and Ft. William. |
| Athabasca | | 1 | | | | | | |
| Athabasca | . 500 | | 27., | 2,282 | 150 | | | tt tt |
| Athabasca | 500 | .) " | 27 | 2,616 | 217 | 2 | 3 11 | # # |
| AthabascaAlberta | 500 500 Freight | : : | 27 27 | 2,616 1,507 | 217 125 | 28 56 | 3 " | The Lakes. |
| Athabasca | 500. 500. Freight Tug. | . " | 27 | 2,616 1,507 20 | 217 125 13 | 28 56 20 | 3 " 3 " | # # |

STEAM Vessels Inspected, &c.—West Ontario Division—Continued.

BOILERS AND MACHINERY-Continued.

| Name of Vesse | Number of Passen- gers Allowed. | | ite ficate ires. | Gross Tons. | Tonnage Dues and Inspection Fees Paid | Cla | ss of Vessel and where employed. |
|----------------------------------------------|------------------------------------------|---------|------------------------|----------------|------------------------------------------------|---------|-----------------------------------------------|
| | | 19 | 00. | | \$ cts | | |
| Dredge No. 9 C. W. Chamberlai Metamora | Dredge | Not i | ssued | 187 | | | T |
| C. W. Chamberlai | n Freight | May | 2 | 385 239 | 35 80 24 12 | | , Kingston and Duluth. The Lakes. |
| | | | 3 | 367 | 34 36 | | The Lakes. |
| Timintaga | " | | 3 | 73 | 10 84 | | u u |
| Imintaga | Yacht | | 4 | 9 | 5 72 | | Georgian Bay. |
| uperior | Tug | | 4 | 89 | 12 12 | | The Lakes. |
| Lilly | 11 | | 4 | 22 | 13 52 | | Georgian Bay. |
| Masonic | 40 | .1 0 | 5 | 39 | 8 12 | - 1 | Penetang and Pt au Baril. |
| (100 | Yacht | - 11 | 5 | $\frac{6}{21}$ | 5 50 6 68 | | Georgian Bay. |
| da hawanaga | Tug | · : !! | 5 | 96 | 12 68 | | " |
| ouawanaga | Lug. | . " | 6 | 311 | 29 88 | | The Lakes. |
| Pred Deviden | 125 | May | 6 | 43 | 8 46 | | Penetang. and Pt. aux Baril. |
| Reliance Fred. Davidson Lillie May | Tug | | 6. | 10 | | | Georgian Bay. |
| Maud | 10 | | 8 | 40 | 8 20 | | Georgian Bay. Penetang. and Pt. aux Baril. |
| Maud Harvey Neelon Chicora. | Tug | | 10 | 65 | | | The Lakes. |
| Chicora | 872 | | 11 | 931 | | - 1 | e, Lake Ontario. |
| Chippewa | 2000 | . 11 | 11 | 1514 | 129 12 | | Toronto and Lewiston. |
| Corona | 1456 | | 11 | 1274 | | | Niagara and " |
| Ongiara White Star | 694 | . 11 | $\frac{11}{19}$ | 98 451 | | | Lake Ontario. |
| Willie Star | Tug | | 25 | 76 | | Screw | |
| Port Elgin Queen | Tug | 1 | 25 | 37 | 7 96 | " | Georgian Bay. |
| A. Seaman Port Elgin Queen Arbutus | Freight. | | 25 | 49 | 9 00 | | " |
| Joe Milton | 200 | | 2 6 | 93 | 12 52 | 3 | Geo. Bay and L. Huron. |
| Rambler | Tug | . Not i | ssued | 6 | | | Georgian Bay. |
| J. H. Jones | 30 | . May | 26 | 152 | | | Geo. Bay and L. Huron. |
| John Hanlan | 100 | . June | 1 | 37 478 | 7 96 43 2 | | Toronto Bay. Geo. Bay and L. Huron, |
| Dominion Agnes | Tug | A pril | 97 | 23 | | | Georgian Bay. |
| Thos Maitland | Lug | | 27 | 107 | | | The Lakes. |
| Thos. Maitland Constance | 40 | June | 15 | 42 | | | Muskoka Lakes. |
| Oriole | 197 | . 11 | 15 | . 75 | 11 00 |) " | ** |
| Muskoka Medora. | 301 | . ! 11 | 15 | | 23 70 | | ti . |
| Medora | 505 | . " | 15 | | | | ** |
| Nipissing | 394 | | 16 | | | Paddl | |
| Mink Queen of the Isle | | | 16 | | | Screw | , " |
| Priscilla | | | 16 16 | 20 | | | " |
| r 1 | 0.00 | i | 17 | | | | u . |
| Ahmic Charlie M | 39 | | 17 | 43 | | | Ħ |
| Charlie M | 39 | . ,, | 17 | | |) ., | " |
| Jypsy | Yacht | . , 11 | 19 | | | | 11 |
| Jomet | Tug | . " | 19 | | | | ** |
| Devenish | Yacht | | 20 | | | | Burks Falls and Ahmic Harbon |
| Wanita | | | 20 | | 8 5 | Maga | netawan River. |
| Emulator Glenrosa | | | 21 21 | | | 4 Screw | Burks Falls and Ahmic Harbon |
| Wenonah | 108 | | 21 | | | | 11 11 |
| Wenonah Longford | 150 | 1 , | 22 | 53 | | | Lake Couchiching. |
| Lorna Doone. | Vacht | | 22 | 5 | 5 4 | 0 | Lake Simcoe. |
| Islay | 344 | | 23 | 175 | | | Orillia and Barrie. |
| IslayEdna | 40 | . " | 24 | | | | Penetang, and Pt. aux Baril. |
| Marie | Tug | | 24 | | | | Georgian Bay. |
| Herold Gauthier Lorna Doone | 90 | - " | 24 | | | | Pt. aux Baril and Moon River. |
| Loma Doone | 38 | . " | 24 24 | | | | L o. aux Darn and Moon Alver. |

^{*} Fees and dues for 1898 and 1899.

^{*} Fees and dues for 1897, 1898 and 1899.

STEAM Vessels Inspected, &c.—West Ontario Division—Continued.

BOILERS AND MACHINERY-Continued.

| Name of Vessel. | Number of Passen- gers Allowed. | Certi | ite ficate ires. | Gross Tons. | Tonns Dues s Inspec Fees P | ind tion | Class | s of Vessel and where employed. |
|-----------------|------------------------------------------|-------|------------------------|----------------|-------------------------------------|-------------|--------|---------------------------------|
| | | 189 | 99. | | \$ | cts. | | |
| Geraldine | Tug | June | 26 | ĺ 65 | 10 | 28 | Screw. | Goergian Bay. |
| Emma | 150 | .,, | 26 | 75 | | Ĺ 00 | | Penetang. and Pt. aux Baril. |
| Alfred Morrell | | | 26 | 40 | 8 | 3 76 | " | Georgian Bay. |
| Halcro | | | 26 | 8 | : | 5 64 | ,,, | " |
| Carlton | 26 | | 26 | 8 | { | 5 72 | " | Pt. aux Baril and Moon River. |
| Mabel G | Yacht | " | 27 | 10 | | 5 80 | | Georgian Bay. |
| Una | 11 | 10 | 28 | 22 | | 3 76 | | ** |
| Odessa | | | 2 8 | 12 | | 5 96 | | Midland and vicinity. |
| D. L. White | | | 29 | | | 48 | | Georgian Bay. |
| Bruce | 11 | - 11 | 29 | 16 | (| 5 28 | " | 11 |
| Total | | | | 30,823 | 3,46 | 4 52 | | |

JAMES JOHNSTON, Toronto.

Steam Vessels Inspected in Canada but Registered Elsewhere for the Year ended 30th June, 1899.

WEST ONTARIO DIVISION.

BOILERS AND MACHINERY.

| Name of Vessel. | Number of Passen- gers Allowed. | Date Certificate Expires. | TOHIS. | Tonnage Dues and Inspection Fees Paid. | Class of Vessel and where employed. |
|-----------------|------------------------------------------|---------------------------------------------|--------------------------|-------------------------------------------------|------------------------------------------|
| International | 380 | 1900. Sept. 22 Not issued Sept. 27 | 144 104 257 505 | \$ cts. 19 52 16 32 28 56 64 40 | Screw, Soo to Thessalon. "Lake Superior. |

JAMES JOHNSTON, Toronto.

Steam Vessels Inspected, for the Year ended June 30, 1899. WEST ONTARIO DIVISION.

BOILERS AND MACHINERY-Continued.

| Name of Vessel. | Number of Passen- gers Allowed. | | ite. ficate ires. | Gross Tons. | Due | ction | ı. | Remarks. | |
|------------------------------|------------------------------------------|-------|------------------------------------------------|-----------------|------|----------------------------------------------------|--------|-----------------------|---------------|
| | | 190 | 00. | | \$ (| ets. | | ~ | |
| Welcome | Fish'g tug. | July | 19 | 21 | } | 6 68 | Screw. | Lake Huron. | |
| Gilphie | Yacht | | 19 | 19 | 1 | 6 52 | 3 " | 11 | |
| Mary Arnott | | " | 19 | 8 | | 5 64 | | | |
| C. M. Bowman Sarah E. Day | 11 | ", | 19 20 | 88 5 | | 12 04 10 80 | | ** | |
| Elmer | ,,,,,,, | ", | 20 | 38 | | 8 04 | | " | |
| A. Chambers | Fish'g tug. | | 20 | 23 | | 6 84 | | ** | |
| John Logie | ,, , | | 21 | 29 | | 7 32 | | н | |
| Earl | _ " . | " | 21 | 18 | | 6 44 | | 11 | |
| Phœnix Sea Shell | Tug | ** | $egin{array}{c} 21\dots \ 22\dots \end{array}$ | 37 7 | | 7 96 5 56 | | ** | |
| Winnie | | " | 22 | 14 | | 6 12 | | " | |
| Winnie Eleanor | Fish's tue | ", | 27 | 26 | | 7 10 | | Lake Erie. | |
| Osprey | " | | 28 | 6 | | 5 48 | ,, | 11 | |
| vev Alderson | i | " | 28 | 39 | | 8 12 | | Long Point Bay. | |
| ena | Yacht | . " | 29 | 14 | | 6 12 | .1 | T -1- TT | |
| Geo. Swann | | | 2 | 18 32 | | 6 44 7 56 | | Lake Huron. | |
| Evelyn W. H. Seibold | | 1 | 3 3 | $\frac{32}{22}$ | | 6 76 | | 11 11 | |
| Sea King | | " | 3 | 26 | | 7 08 | | 11 | |
| Hazard | | July | | 34 | | 7 72 | | Lake Erie. | |
| W. M. German | | " | 29 | 28 | | 7 24 | | H. | |
| Caponaning | Tug | Aug. | 17 | 18 | | 12 88 | | French River. | |
| Nocross | ** | | 18 | 20 | | 6 60 | s i | 11 | |
| Maggie McLean | | ** | 18 19 | 37 85 | | 796 1180 | | ** | |
| Evelyn Frank G. McAulay | | " | 22 | 43 | | 8 44 | | Lake Huron. | |
| Juno | la son g oug. | | 22 | 28 | | 7 24 | | " | |
| Clucas | ١ ,, . | | 22 | 28 | | 7 24 | l ., | ** | |
| Lizzie May | Tug | ., * | 23 | 18 | | 6 44 | | ** | |
| Sea Gull | Fish'g tug. | 1, | 23 | 19 | | 652644 | | ** | |
| Sea Queen | Tug" | " | 24 24 | 18 28 | | 7 24 | ı i | " | |
| Killarney Belle Arbutus | Tug" | ,, | 25 | 49 | | 8 92 | | Georgian Bay. | |
| Snowstorm | Fish'g tug. | ,, | 29 | 17 | | 6 36 | | Lake Erie. | |
| A. H. Jennie | Freight | | 31 | 148 | | 16 84 | 11 | Lakes. | |
| Enterprise | l'ish'g tug. | 111 | 31 | 18 | 1 | 6 44 | | Lake Erie. | |
| Uncle Tom | | g." | 31 | 8 | | 5 72 | | ** | |
| Swan | " : | Sept. | 1 | 14 16 | | 6 12 | | 11 | |
| | | 11 | 1 | 6 | | 5 48 | | 11 | |
| Ida Belle | 40 | ., | 13 | 55 | | 9 40 |) ,, | Wahnapitae Lake. | |
| Great Western | 200 | " | 22 | 1,080 | | | | Windsor and Detroit. | |
| Lansdowne | 200 | ** | 27 | 1,571 | | 33 68 | | 1177 - 3 3 TO 3 - 1 | |
| Monarch | Freight | Oot | 20 | 2,017 | | | Screw, | Wallaceburg and Vicin | .: |
| E. Windsor | Tug | Oct. | 8 . 13 | 86 11 | | $\begin{array}{ccc} 11 & 88 \\ 5 & 88 \end{array}$ | | Wallaceburg and Vicir | и ту . |
| W. S. Ireland | Freight | " | 13 | 105 | | 13 40 | | " | |
| ohn Lee, sr | 220 | | 14. | 52 | | 9 16 | | Between Lakes Erie & | Huron |
| Ariadne | Tug | ,, | 14 | 38 | | 8 04 | | Wallaceburg and Vicin | nity. |
| City of Mt. Clemens | Freight | " | 14 | 102 | | 13 16 | | " " | - |
| Ripple | Tug | " | 14 | 15 | | 6 20 | | 11 11 | |
| L. J. Collop | reight | " | 15 15 | 63 22 | | 10 04 6 76 | | 11 11 | |
| Willie Scagel | | " | 15 15 | 24 24 | | 6 92 | | 11 H | |
| Huron | Tue | Aug. | 3 | 55 | | 9 40 | ,, | Lake Huron. | |
| Eagle | Yacht | ,, | 3 | 12 | | 23 84 | ., | " | |
| Daisy | Tug | Not i | ssued | 11 | ĺ | 5 88 | 3 | " | |
| A. V. Crawford | | Ang. | 29 | 51 | 1 | 9 08 | 3 | Lake Erie. | |

^{*} Dues and fees for 1897 and 1898.

[†] Dues and fees for 1895, 1896, 1897 and 1898.

STEAM Vessels Inspected, &c.—West Ontario Division—Continued.

BOILERS AND MACHINERY-Continued.

| Name of Vessel. | Number of Passen- gers Allowed. | Date Certificate Expires. | | Tonnage Dues and Inspection Fees Paid. | |
|------------------------------|------------------------------------------|---------------------------------|------------------|--------------------------------------------------|---------------------------------------------------------------------|
| | | 1900. | | \$ cts. | |
| Michigan | 500 | Mar. 16 | 1,730 | 146 40 | Paddle, Windsor and Detroit. |
| Ontario—Coasting { | 524 | и 16 | 1,615 | 137 20 | |
| Lakeside Lake | 34 9 | 20 | 348 | 35 84 | Screw, Lake Ontario. |
| Mascassa | | April 8 | 459 107 | 44 72 16 54 | Twin screw, Hamilton and Toronto. Screw, Hamilton and Burington. |
| Daniel Lamb | Dredge | Not issued | | | Toronto Bay. |
| *Sandford | Tug | April 11 | 56 | | Screw, lakes. |
| Seguin | | ' " 17 " 19 | | 73 44 82 48 | |
| Persia | 150 | ·· 19 | 757 | 68 56 | |
| Lake Michigan | 12 | " 19 | | 53 84 | Duluth and Montreal. |
| Sir S. L. Tilley Alert | Tug | 19 120 | | 102 24 8 76 | " Quebec. " Welland Canal. |
| Inez | ıı | | | 9 72 | " " " |
| Chas, E. Armstrong | | 21 | 49 | 8 92 | |
| A. D. Cross Mary R | | | | 8 76 8 52 | " " |
| Golden City | | 21 | 35 | 7 80 | |
| Escort | | | 40 | 8 20 | u u |
| S. Kneeland Ocean | | " 22 " 24 | 46 684 | $\begin{array}{c} 8 & 68 \\ 62 & 72 \end{array}$ | " Montreal and Sarnia. |
| Erin | Freight | · · 25 | 651 | 60 08 | " Duluth. |
| recumseh | /T | " 25 | | 72 20 | " Prescot and " |
| Home Rule | rug | " 26 " 26 | 357 81 | 33 56 11 48 | " Lakes. |
| Wales | | 26 | 350 | 33 00 | |
| Juno | Freight | " 27 | 288 | 28 04 | Montreal and Duluth. |
| SunshineImperial | 220 | 27 28 | 66 150 | 10 28 20 00 | Lakes. Sarnia and Sandusky. |
| Onaping | Tug | ıı 28 | 256 | 25 48 | Lakes. |
| United Lumberman Charlton | Freight | 29 | | 36 92 | " Montreal and Duluth. |
| Niagara | Freight | " 29 May 2 | | 36 12 42 44 | Lakes. Montreal and Duluth. |
| *Lillie Smith | | ັ 3 | 27 5 | 54 00 | " " " " |
| United Empire Pepiakan | 295 | " 3 | 1,961 | 164 88 | |
| Ontario | Freight. | " 4 Not issued | 29 655 | 7 32 57 40 | Lake Huron. |
| Comfort | 40 | May 5 | 14 | 6 12 | Sombra and Marine City. |
| | 900 | ıı 8 | 189 | | Paddle, Toronto Bay. |
| Primrose | 100 | " 8 " 8 | $\frac{189}{23}$ | 23 12 | Screw " |
| Arlington Phistle | 345 | 8 | 78 | 11 24 | Paddle " |
| Shamrock Kathleen. | 383 | ıı 8 | 154 | 20 32 | u " |
| Electric | Yacht | " 8 " 8 | 110 49 | 16 80 8 92 | Screw " " Lakes. |
| Olinton | Freight | 8 | | 39 40 | " Montreal and Duluth. |
| Hiawatha, coasting $\{$ | Yacht | ıı 8 | 46 | 8 68 | " Toronto Bay, |
| Garden City Lake | 500 | " 9 | 637 | 59 04 | Paddle, Lake Ontario. |
| Jubilee | 40 | " 9 | 10 | 5 80 | Screw, Welland Canal. |
| Augusta Heward McMaugh | Tug | " 10 " 10 | 57 42 | 9 56 8 36 | H H |
| Jas. Norris | | " 10 | | 9 00 | 11 11 |
| M. R. Mitchell. | ۱ ا | ·· 10 | 40 | 8 20 | " _ " |
| Nellie Bly Ella Taylor | rish'g tug | " 11 " 11 | 13 | 6 04 7 72 | " Lake Ontario. |
| Maid of the Mist | 80 | " 11 | 34 62 | 9 96 | Welland Canal. Nia. Falls, Ont. & Nia. Falls, N. Y |
| Modjeska | 801 | ·· 13 | 678 | 62 24 | Twin screw, Hamilton and Toronto. |
| Myles | r reight | " 15 " 16 | | 100 92 22 48 | Screw, Quebec and Duluth. |
| · | 66 | 10 | 33 | 7 64 | Ottawa and Montreal. |

STEAM Vessels Inspected, &c.—West Ontario Division—Continued.

BOILERS AND MACHINERY-Continued.

| Name of Nessel. | Number of Passen- gers Allowed. | De | ficate | | Tonna Duesa Inspec Fees P | and tion | l (| es of Vessel a | and where employed. |
|-----------------------|------------------------------------------|--------|------------|--------|------------------------------------|--------------|--------|----------------|------------------------------|
| | | 190 | 00. | | \$ | cts. | | | |
| Cleopatra | Yacht | May | 16 | 104 | 1: | 3 32 | Screw, | Lakes. | |
| Island Queen | | 11 | 16 | 23 | | 84 | | Toronto Ba | v. |
| City of Chatham | 580 | ., | 18 | 341 | | 28 | | Chatham an | |
| Owen | Freight | 11 | 19 | 103 | | 3 24 | | 11 | vicinity. |
| Euna | Tue. | ., | 19 | 6 | | 5 48 | ١,, | ** | 11 |
| Vick | " | ,, | 19 | 13 | i | 6 04 | ., | | 11 |
| 1 | Freight. | | | | | | | | |
| W. S. Ireland { | 448 | Not is | ssued | 105 | • • • • • | | " | " | " |
| A. J. Tymon, coasting | 110, | | | | | | | | |
| lake | 300 | May | 22 | 194 | 2: | 3 52 | | Lake Ontar | io |
| | 300 | 11 | 23 | 267 | 9 | 36 | Paddle | Et Ericar | nd Black Book |
| | | June | 1 | 337 | 3. | 1 96 | Scrow | Ningara and | nd Black Rock. I Toronto. |
| St. Andrew | | " | 3 | 1.113 | 93 | 04 | ,,, | Prescott and | l Duluth |
| Toronto | 1.000 | | 8 | 2.779 | | | Paddle | | Hamilton. |
| | 36 | | 8 | 46 | | | | | d Adolphustown. |
| | 500 | " | 9 | 898 | 79 | 24 | Paddle | Lake Erie. | d Adolphustown. |
| | 400 | | 10 | 980 | | 3 40 | | Claveland a | nd Sault St. Marie. |
| | Yacht | | | 6 | O | 7 40 | | Toronto and | |
| | | | | 511 | | 88 | | | l and Sault St. Marie. |
| City of Windsor | | | "10 | | | , 60 5 64 | | | and Sault St. Marie. |
| Abino | 40 | June | | 8 | |) 65 } 65 | | Hamilton a | |
| Mazeppa. | 300 | •• | 23 | 146 | | | | Lakes. | ia roronio. |
| M. A. Bennett. | | | 24 | 34 | | 72 | | | Dank Bala |
| Hope | | | 26 | 170 | | 60 | | Buffalo and | |
| | 40 | | 27 | 15 | | 3 20 | | | nd Crystal Beach. |
| Gordon Jerry | Freight | ** | 30 | 124 | | 92 | | Lake Ontari | |
| Queen City | | - 11 | 30 | 312 | | 2 96 | | Niagara and | |
| *Morning Star | Tug | " | 3 0 | 5 | 10 | 80 | 11 | Toronto Bay | y |
| | | | | 00.000 | | | | | |
| | | Total | | 36,336 | 3,78 | 273 | 1 | | |

^{*} Dues and fees for 1898-9.

JOHN DODDS, Toronto.

Steam Vessels Inspected in Canada but Registered elsewhere, for the Year ended June 30, 1899.

WEST ONTARIO DIVISION.

BOILERS AND MACHINERY.

| Name of Vessel. | Number of Passen- gers Allowed. | Date Certificate Expires. | Gross Tons. | Tonnage Dues and Inspection Fees Paid. | Class of Vessel and where employed |
|------------------------------------------------------------------------------------------------------------------|------------------------------------------|---------------------------------|----------------|-------------------------------------------------|---------------------------------------------------------|
| | | 1899. | | \$ ets. | |
| Niagara | 100 | July 13. | 214 | 25 12 | Screw, Buffalo and Fort Erie. |
| Bazelle | 512 | . 14 | 183 | 22 64 | _ " Crystal Beach. |
| Puritan | 725 | " 15 | 409 | 40 72 | Twin screw |
| Pearl | 845 | " 16 | 552 | 52 16 | Paddle, Buffalo and Pt. Colborne. |
| Columbia | 671 | 25 | 399 | 39 92 | Screw, |
| Riverside | 7.00 | Not issued | 125 348 | 18 00 35 84 | " Niagara River. |
| dlehour | 746 | July 26 | 940 | 30 64 | " Buffalo and Chippewa, ry car ferry. |
| Chenango No. 1 | | Not issued | 1.942 | 163 36 | Twin screw, Lake Erie. |
| Annie F. Owen | 40 | June 21 | 50 | 9 00 | Screw, Niagara River. |
| Flora | | Not issued | 562 | 52 96 | Paddle, Lake Erie. |
| Fransfer | 248 | Sept. 16 | 1,511 | 128 88 | Windsor and Detroit, ry. ca |
| | | 1 | • | 1 | ferry. |
| Michigan Central | 300 | 18 | 1,522 | 129 76 | " " |
| Vyandotte | 904 | 21 | 320 | 33 60 | Screw, Detroit and Sugar Island. |
| City of Toledo | 1,120 | 22 | 1,004 | 88 31 | Paddle, Toledo and Samia. |
| Newsboy | 381 | " 24 | 200 | 24 00 | Screw, Amherstburg and Sarnia. |
| Transport | 256 | 26 | 1,59 5 | 135 60 | Paddle, Windsor and Detroit, ry. ca |
| lannha | 558 | 26 | 224 | 25 92 | ferry. Screw, between Lakes Erie and Huro |
| Sappho Promise | 769 | " 26 " 28 | 473 | 45 84 | Screw, between Lakes Erie and Huro |
| dlewild. | 806 | 29 | 363 | 37 07 | Paddle, Toledo and Port Huron. |
| Darius Cole | 1,088 | 30 | 538 | 51 06 | between Lakes Erie and Huro |
| Omar D. Conger | 398 | Oct. 10 | 347 | 35 76 | Screw " |
| lames Beard | 150 | · 10 | 87 | 14 96 | " Sarnia and Port Huron. |
| race Dormer | | " 11 | 66 | 13 28 | " " " |
| Welcome | 266 | 12 | 213 | 25 04 | Port Huron and Detroit. |
| Cortune | 502 | Sept. 26 | 200 | 24 00 | " Windsor and Detroit. |
| Excelsior | 181 | 26. | 229 | 26 32 | 11 11 11 |
| Ariel | 226 182 | " 26 " 26 | 202 192 | 24 16 23 36 | Walkerville and Detroit. Windsor and Detroit. |
| Victoria | 102 | | 132 | 20 00 | Windsor and Detroit. |
| | | 1900. | | i | |
| Excelsior | 560 | April 25 | 229 | 26 32 | Screw, " " |
| Promise | 1,000 | 28 | 473 | 45 84 | between Lakes Erie and Huro |
| Sappho | 700 | 29 | 224 | 25 92 | " " " " |
| Greyhound | 1,353 | June 10 | 621 | 57 70 | 11 11 11 |
| $ \text{Arundell} \dots \begin{cases} \text{Coasting} \\ $ | 600) | , 12 | 339 | 35 12 | Screw, Sarnia and Ogdensburg. |
| Lake | | 10 | 363 | | |
| dlewild | 800 40 | 1 22 | 503 50 | 37 07 9 00 | Paddle, Toledo and Port Huron. Screw, Niagara River. |
| Annie F. Owen Pearl | 845 | 24 | 552 | 52 16 | Paddle, Buffalo and Pt. Colborne. |
| Puritan | 725 | " 21 | 409 | 40 72 | Twin screw, Buffalo and Crystal Beac |
| azelle | 512 | 22 | 183 | | Screw " " |
| JALOUE | 012 | " 22 | 100 | | KOLCH II II |
| Total | l <i>.</i> | 1 1 | 17,513 | 1,699 13 | |

JOHN DODDS, Toronto.

STEAM Vessels not Inspected, for the Year ended June 30, 1899. WEST ONTARIO DIVISION.

BOILERS AND MACHINERY.

| Name of Vessel. | Gross Tonnage. | Registered Tonnage. | 1 | Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remains the Remain | rks. and class of vessel. |
|-----------------------------|-------------------|------------------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| П | 1.338 | 000 | | | |
| Huron | 1,052 | 900 638 | 1 win 8 | crew, ry. car ferr | y . \ |
| J. C. Clark | 145 | 99 | Screw. | passenger. | 1 |
| Gertrude | 76 | 51 | , ,, | 11 | 1 |
| Queen | 7 | 5 | 11 | ** | 1 |
| Meteor | 337 | 181 | Paddle | e, tug. | |
| Luther Westover | 127 | 80 | g " | H | |
| Cecebe | 11 21 | 8 | Screw | 11 | - 1 |
| Signal | 94 | 18 64 | " | 11 | I |
| H. L. Lovering | 55 | 38 | " | " | 1 |
| Frank Reid. | 34 | 23 | | | į į |
| L. Shickluna | 16 | 11 | ., | ** | |
| Harry Sewell | 25 | 17 | ** | | |
| Albert Wright | 29 | 21 | ** | 11 | \ |
| Grace Darling | 26 | 18 | ** | ** | Not running. |
| St. George | 21 42 | 14 32 | | ** | 1 |
| Clara Hickler | 46 | 34 | 1 | ** | |
| Purvis | 13 | 9 | ,, | fishing tug. | l l |
| Abeona. | 46 | 31 | | yacht. | 1 |
| Sonntag | 7 | 5 | | 11 | 1 |
| Ripple | 5 | 4 | | 11 | 1 |
| Curlew | | 3 | 11 | ** | 1 |
| A. M. Petrie | 20 | 13 | " | U | 1 |
| Viola | 68 | : 46 | " | 11 | Į. |
| Kate Murray | 3 3 | . 2 | " | ** | |
| Siesta | 15 | 12 | | freight. | 1 |
| La Belle. | 75 | 58 | " | ii | 1 |
| Maybird | 46 | 32 | | ,, | 1 |
| Enterprise | 148 | 99 | " | passenger. | 1 |
| 'Agnes | 14 | 10 | | . ,, | 1 |
| Hiawatha | 163 | 111 | - 11 | 11 | |
| City of Dresden | 194 | 124 | " | ** | į. |
| Scotia | 13 | 9 | '' | ** | 1 |
| J. V. O'Brien Ocean Lily | 59 3 | 31 | ", | tua | - 1 |
| Island Belle | 31 | 21 | 1 ". | tug. | |
| Nautilus | . 8 | 5 | 1 | 11 | 37 |
| lota | 6 | 4 | ., | 11 | No application |
| Despatch | | 22 | ۱, | 11 | (|
| Energy | 116 | 70 | | freight. | 1 |
| Walter Scott | 26 | 18 | ** | tug | 1 |
| Sweet Mary | 13 | . 9 | " | 11 ab t | 1 |
| Albani'Minota | 5 29 | 19 | ", | yacht. | |
| Secret | 9 | 6 | " | " | 1 |
| Ranger | 8 | 5 | 1 | fishing tug. | J |
| John J. Long | 201 | 137 | | passenger |) |
| Minnie Martin | 10 | 7 | | tug | } |
| J. P. McIntosh | 58 | 41 | | | 1. |
| Elite | 22 | 15 | 11 | fishing tug. | Out of reach. |
| Advance | 72 | 49 | | 11 | ĺ |
| Shamrock | 14 | 10 | ** | " . | 1 |
| Vixen | 68 | 53 | " | 11 |) |
| Totals | 5,129 | 3,360 | į. | | |

^{*}These steamers have been inspected since July 1, 1899.

JAMES JOHNSTON. JOHN DODDS, Toronto.

STEAM Vessels Inspected, for the Year ended June 30, 1899.

WEST ONTARIO DIVISION.

HULL INSPECTION.

| Carmona | | July | 99. 5 | ! | | | | of Vessel and where employed. |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|---------------|-----------------|-----------------------------------------|-----------------------|------------|-------------|----------------------------------------------------------------|
| City of Chatham 580 Scotia. 30 John Lee, sr 200 Jubilee. 40 City of Dresden 100 John Hanlan 173 Charlie M 39 Conqueror 40 Longford 40 Islay 348 Stiletto 30 Agnes 25 Medora 416 Nipissing 396 Oriole 97 Mink 40 Onaganoh 20 Flyer 17 Kenoyha 363 Ahmic 40 Muskoka 248 Constance 40 Queen of the Isles 35 Nymoca 40 Empress Victoria 100 Mary Louise 40 Wanita 125 Glenrosa 40 Wenonah 108 Queen City 328 Gypsy 40 | | " | 5 | 1 | \$ | ets. | | |
| Scotia. 30 John Lee, sr 200 Jubilee. 40 40 City of Dresden 100 John Hanlan 173 Charlie M 39 Conqueror 40 Longford. 40 Longford. 40 Longford. 40 Stiletto 30 Agnes 25 25 Medora 416 Nipissing. 396 Oriole 97 Mink 40 Onaganoh 20 Flyer 17 Kenoyha 363 Ahmic. 40 Muskoka 248 Constance 40 Queen of the Isles 35 Nymoca 40 Empress Victoria 100 Mary Louise 40 Wanita 125 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenrosa 40 Glenr | | ** | | 980 | 86 | 40 | Side w | heel, Sandusky to Soo. |
| John Lee, sr 200 Jubilee. 40 City of Dresden. 100 John Hanlan 173 Charlie M 39 Conqueror. 40 Longford. 40 Islay. 348 Stiletto 30 Agnes. 25 Medora 416 Nipissing. 396 Oriole. 97 Mink 40 Onaganoh 20 Flyer 17 Kenoyha. 363 Ahmic. 40 Queen of the Isles. 35 Nymoca. 40 Empress Victoria. 100 Mary Louise. 40 Wanita. 125 Glenrosa. 40 Wenonah. 108 Queen City. 328 Gypsy. 40 Scow Vladmir. 40 Verva. 40 Monarch. 330 Juno. Freigh | | | 5 | 341 | 35 | 28 | Screw, | Chatham and Detroit. |
| Jubilee. 40. City of Dresden. 100 John Hanlan. 173 Charlie M. 39 Conqueror. 40 Longford. 40 Islay. 348 Stiletto. 30 Agnes. 25 Medora. 416 Nipissing. 396 Oriole. 97 Mink. 40 Onaganoh. 20 Flyer. 17 Kenoyha. 363 Ahmic. 40 Muskoka. 248 Constance. 40 Queen of the Isles. 35 Nymoca. 40 Empress Victoria. 100 Mary Louise. 40 Wanita. 125 Glenrosa. 40 Wenonah. 108 Queen City. 328 Gypsy. 40 Scow Vladmir. Verva. Verva. 40 Monarch. | | | 6 | 13 52 | | 04 | | Amherstburg and Bois Blanc |
| City of Dresden. 100. John Hanlan. 173 Charlie M. 39. Conqueror. 40. Longford. 40. Islay. 348. Stiletto. 30. Agnes. 25. Medora. 416. Nipissing. 396. Oriole. 97. Mink. 40. Onaganoh. 20. Flyer. 17. Kenoyha. 363. Ahmic. 40. Muskoka. 248. Constance. 40. Queen of the Isles. 35. Nymoca. 40. Empress Victoria. 100. Mary Louise. 40. Wanita. 125. Glenrosa. 40. Wenonah. 108. Queen City. 328. Gypsy. 40. Wonarch. 330. Juno. Freight Great Western. 200. | | tr | 7 7 | 10 | | 16 80 | | Detroit River. Rondeau Bay. |
| John Hanlan | · · · · · · · · · · · · · · · · · · · | ** | 7 | | | 52 | | Lake Erie ports. |
| Charlie M 39. Conqueror 40. Longford 40. Islay. 348. Stiletto 30. Agnes 25. Medora 416. Nipissing 396. Oriole 97. Mink 40. Onaganoh 20. Flyer 17. Kenoyha 363. Ahmic 40. Muskoka 248. Constance 40. Queen of the Isles 35. Nymoca 40. Empress Victoria 100. Mary Louise 40. Wanita 125. Glenrosa. Wenonah 108. Queen City 328. Gypsy 40. Scow Vladmir Verva 40. Monarch 330. Juno Freight Great Western 200. Lansdowne 200. Lansdowne 200. Lansdowne 200. Lansdowne 200. Lansdowne 200. Lansdowne 200. Lansdowne 200. Lansdowne 200. Lansdowne 200. Lansdowne 200. Lansdowne 200. Lansdowne 200. Lansdowne 200. Lansdowne 200. Lansdowne 200. Lansdowne 200. Lansdowne 200. Lansdowne 200. Lansdowne 200. Lansdowne 200. Lansdowne 300. Lansdowne 300. Scotch Thistle 30. Lillie Smith Freight Camilla 135. Philadelphia 35. City of Windsor 300. Telegram {L. 200} La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La. 200 La | | ** | 20 | | | 96 | | Toronto Bay. |
| Longford | | 0 | 31 | 50 | 9 | 00 | | Muskoka Lakes. |
| Salay | | ** | 21 | 25 | | 00 | | Lake Simcoe. |
| Stiletto 30 | | ** | 22 | 53 | | 24 | 1 | u . |
| Agnes 25 Medora 416 Medora 416 Medora 416 Missing 3396 Oriole 97 Mink 40 Onaganoh 20 Flyer 17 Kenoyha 363 Ahmic 40 Muskoka 248 Constance 40 Queen of the Isles 35 Nymoca 40 Empress Victoria 100 Mary Louise 40 Wanita 125 Glenrosa 40 Gypsy 40 Scow Vladmir Verva 40 Mary Louise 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 All the state 40 | | ** | $\frac{22}{22}$ | 175 14 | | 00 12 | | W |
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| * Coponaning * Maggie May * Maggie May * 40. * Scotch Thistle * 30. Lillie Smith Freight Camilla * Philadelphia * City of Windsor * Telegram * L. 200 R. 330 | J | une | 23 | 55 | 9 | 40 | | Penetang. Pt. aux Baril. |
| Scotch Thistle 30 | 5 | ept. | 30 | 59 18 | 9 12 | 72 | | Georgian Bay ports. |
| Scotch Thistle 30 | 10 | tougi lent | 30 | 46 | 8 | | | French River. Killarney and Thessalon. |
| $ \begin{array}{c cccc} \text{Lillie Smith} & \text{Freight} \\ \text{Camilla} & 135 \\ \text{Philadelphia} & 35 \\ \text{City of Windsor} & 300 \\ \text{Telegram} & \begin{cases} L & 200 \\ R & 330 \end{cases} $ | | epu. | 30 | 17 | | 36 | " | Algoma Mills. |
| $ \begin{array}{cccc} \text{Camilla} & & 135. \\ \text{Philadelphia} & & 35. \\ \text{City of Windsor} & & 300. \\ \text{Telegram.} & & \left\{ \begin{array}{c} \text{L. 200} \\ \text{R. 330} \end{array} \right. \\ \end{array} $ | : | 11 | 22 | 275 | $2\overset{\circ}{7}$ | | ** | Montreal and Duluth. |
| $ \begin{array}{cccc} \text{City of Windsor} & 300 \dots \\ \text{Telegram} & \begin{cases} \text{L. 200} \\ \text{R. 330} \end{cases} $ | | | 30 | 54 | 9 | | | Pt. aux Pins and Thessalon. |
| Telegram $\begin{cases} L. & 200 \\ R. & 330 \end{cases}$ | • • | | 29 | 148 | 19 | | | Montreal and Duluth. |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | : 1 | ** | 29 | 511 | 48 | 88 | " (| Collingwood and Soo. |
| (11) | } | ** | 29 | 198 | 23 | 84 | ., 9 | Soo and Peninsular Harbour. |
| Fanny Arnold 25 | , . | | 30. | 73 | 10 | 84 | 1 | Killarney and Soo. |
| Surprise | | " | 30 | 19 | 6 | | | Meldrum Bay and Little Current. |
| | | 190 | 0. | į | | | | |
| Lakeside | ł | pril | 10 | 348 | 35 | 24 | , | Toronto and Lake Ontario ports. |
| Macassa 616 | | | 13 | 459 | 30 4 44 | | | Toronto and Lake Untario ports. Toronto and Hamilton. |
| Ada Alice 100 | | | 18 | 53 | 9 | 24 | | Toronto Bav. |
| Michigan | : | ** | 19 | 1,730 | 146 | 40 | Paddle, | Windsor and Detroit. |
| Ontario | • • : | | 20 20 | 1,615 840 | 137 | 20 | 11 | Prescott and Duluth. |

^{*} Fees and dues for 1897 and 1898.

STEAM Vessels Inspected, &c.—West Ontario Division—Continued.

HULL INSPECTION—Continued.

| Erin. | Name of Vessel. | Number of Passen- gers Allowed. | Da Certif Expi | icate | Gross Tons. | Tonna Dues ar Inspect Fees Pa | id ion | Clas | ss of Vessel and where employed. |
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| United Lumberman. 220 396 36 92 Sarnia and Sandusky. Niagara Freight 22 468 42 44 Montreal and Duluth. Ocean. 125 22 684 62 72 Montreal and Sarnia. Cuba. 109 22 931 82 48 Montreal and Sarnia. Cuba. 109 22 931 82 48 Montreal and Sarnia. Cuba. 109 22 931 82 48 Montreal and Sarnia. Cuba. 109 22 931 82 48 Montreal and Sarnia. Cuba. 109 22 931 82 48 Montreal and Sarnia. Cuba. 109 22 931 82 48 Montreal and Sarnia. Cuba. 109 125 22 38 80 Montreal and Toledo. Cuba. 109 125 125 Montreal and Sarnia. Cuba. 125 125 125 Montreal and Sarnia. Cuba. 125 125 Montreal and Sarnia. Cuba. 125 125 Montreal and Sarnia. Cuba. 125 125 Montreal and Sarnia. Cuba. 125 125 Montreal and Sarnia. Cuba. 125 125 Montreal and Sarnia. Cuba. 125 125 Montreal and Sarnia. Cuba. 125 125 Montreal and Sarnia. Cuba. 125 125 Montreal and Sarnia. Cuba. 125 125 Montreal and Sarnia. Cuba. 125 Montreal and Sarnia. Cuba. 125 Montreal and Sarnia. Cuba. 125 Montreal and Sarnia. Cuba. 125 Montreal and Sarnia. Cuba. 125 Montreal and Sarnia. Cuba. 125 Montreal and Sarnia. Cuba. 125 Montreal and Sarnia. Cuba. 125 Montreal and Sarnia. Cuba. 125 Montreal and Sarnia. Cuba. 125 Montreal and Sarnia. Cuba. 125 Montreal and Sarnia. Cuba. 125 Montreal and Sarnia. Cuba. 125 Montreal and Sarnia. Cuba. 125 Montreal and Sarnia. Cuba. 125 Montreal and Sarnia. Cuba. 125 Montreal and Sarnia. Cuba. 125 Montreal and Sarnia. Cuba. 125 Montreal and Sarnia. Cuba. 125 Montreal and Sarnia. Cuba. 125 Montreal and Sarnia. Cuba. 125 Montreal and Sarnia. Cuba. 125 Montreal and Sarnia. Cuba. 125 Montreal and Sarnia. Cuba. 125 Montreal and Sarnia. Cuba. 125 Montreal and Sarnia. Cuba. 125 Montreal and Sarnia. Cuba. 125 Montreal and Sarnia. Cuba. 125 Montreal and Sarnia. Cuba. 125 Montreal and Sa | | | 190 | 00. | | | | | |
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| Sir L Tilley, | | | | | | | | | Montreel and Duluth |
| Lake Michigan 12 | Sir L. Tillev. | 14 | | | | | | | Duluth and Quebec. |
| Majestic. 763 20 1,578 134 24 all Lakes. Atlantic 300 25 683 683 626 64 all Lakes. Collingwood and Soo. City of Collingwood 650 25 1,387 118 96 all Lakes. Collingwood and Soo. City of London 308 26 516 49 28 Screw, Kingston and Quebec. City of London 308 26 516 49 28 Screw, Kingston and Quebec. City of Farry Sound 280 26 491 47 28 Collingwood and Lake ports. Atlanbasca 500 27 2,282 189 52 Owen Sound and Lake ports. Alberta 500 27 2,282 189 52 Owen Sound and Fort Willian Alberta 500 22 2,282 189 52 Owen Sound and Fort Willian Alberta 500 28 2,616 217 28 38 39 38 38 38 38 38 3 | Lake Michigan | 12 | ., | | 573 | | | " | Duluth and Montreal. |
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| City of London 308 | City of Toronto | 400 | | | 782 | 70 | 56 | Paddle | Penetang and Soc |
| Content | City of London | 308 | 1 11 | 2 6 | | 49 | 28 | Screw. | Kingston and Quebec. |
| Athabasca. 500 | City of Midland | 375 | ı | | | 80 | yz | " | Collingwood and Lake ports. |
| Alberta | Jity of Parry Sound Athonores | 500 | 1 | | | | | | Owen Sound and Fort William |
| Manitobs | Alberta | 500 | † | | 2,282 | | | | |
| Rosedale | Manitoba | 500 | - " | 28 | 2,616 | | | ,, | |
| Algonquin | | | 1 | | | | | ļ. | |
| Seguin 20 | Kosedale | Freight | " | | | | | 1 | |
| Seguin 20 | John J. Long | 65 | May | | | | | | Georgian Bay and Lake Huron. |
| Seguin 20 | United Empire | 295 | ", | | 1,961 | 164 | 88 | | Windsor and Duluth. |
| Hiawatha 300 6 163 21 04 Sarnia and St. Clair River. Island Queen 140 8 23 6 84 Toronto Bay. Chippewa 2,000 | Seguin | 20 | " | | | | | | 11000000 4114 2 414411 |
| Island Queen | Comfort | 300 | 1 | | | | | i | |
| Clinton Freight | Island Queen | 140 | | | | | | 1 | |
| Chippewa | Clinton | Freight | " | | | | | | Montreal and Duluth. |
| 12 12 13 14 15 15 15 15 15 15 16 16 | Chicora | 872 | } | | | | | | • |
| 12 12 13 14 15 15 15 15 15 15 16 16 | Corona. | 1.456 | l | | 1,314 | | | | " |
| Sarden City Coasting 733 | Inggara. | 244 | 1 | | | | | | Niagara River. |
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| May Flower 900 13 189 23 12 " " Clark Bros 40 13 33 7 64 Screw, " Montreal and Duluth. C. W. Chamberlain " 16 385 35 80 " Montreal and Duluth. Primrose 900 17 189 23 12 " Montreal and Duluth. Rathleen 196 17 110 16 80 Screw, " Victoria. 333 18 181 22 48 Ottawa River. White Star. Coasting 624) 19 451 44 08 Paddle, Lake Ontario. Phistle 345 25 78 11 24 Toronto Bay. Acacia 200 20 107 16 25 crew, Hamilton and Burlington. Modjeska 801 20 678 62 24 Toronto and Hamilton. A. J. Tymon Coasting 448) 27 194 23 52 Lake Ontario. Maid of the Mist | Shammoole (Coasting | 733) | ł | | | 1 | | i | |
| Clark Bros. | May Flower | 900 | 1 | | | | | | |
| C.W. Chamberlain | Clark Bros | 40 | ì | 13 | | 7 | 64 | Screw, | · · |
| Primrose 900 " 17. 189 23 12 Paddle, Toronto Bay. Kathleen 196 " 17. 110 16 80 Screw, " Victoria. 333 " 18. 181 22 48 White Star. Lake. 464. 464. 451 44 08 Paddle, Lake Ontario. Phistle. 345. " 25. 78 11 24 " Toronto Bay. Acacia. 200. " 20. 107 16 54 Screw, Hamilton and Burlington. Modjeska. 801. " 20. 678 62 24 " Toronto and Hamilton. A. J. Tymon Coasting 448. " 27. 194 23 52 " Lake Ontario. Union. 300. " 29. 267 29 36 Paddle, Fort Erie and Black Rock. Maid of the Mist. 80. " 30. 62 9 96 Screw, Niagara Falls. Lincoln. Lake. 330. " 30. 337 34 96 " Toronto and St. Catharines. Gem. 40. June 1 9 5 72 " Portage and Pt. Sydney. | | | l . | | | | | | Montreal and Duluth. |
| Kathleen 195 " 17. 110 16 80 Screw, "Ottawa River. Victoria. 333 " 18. 181 22 48 " Ottawa River. White Star. Lake. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. 464. <td>J. W. Chamberlain Primmass</td> <td>000"</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Toronto Bay</td> | J. W. Chamberlain Primmass | 000" | 1 | | | | | | Toronto Bay |
| Victoria. 333. " 18. 181 22 48 " Ottawa River. White Star. Lake. 464. " 19. 451 44 08 Paddle, Lake Ontario. Phistle. 345. " 25. 78 11 24 " Toronto Bay. Acacia. 200. " 20. 107 16 54 Screw, Hamilton and Burlington. Modjeska. 801. " 20. 678 62 24 " Toronto and Hamilton. A. J. Tymon Coasting 448. " 27. 194 23 52 " Lake Ontario. Union. 300. " 29. 267 29 36 Paddle, Fort Erie and Black Rock. Maid of the Mist. 80. " 30. 62 9 96 Screw, Niagara Falls. Lincoln. Lake. 330.) 333. 337 34 96 " Toronto and St. Catharines. Gem. 40. June 1. 9 5 72 " Portage and Pt. Sydney. | Kathleen | 196 | 1 | | | | | | |
| Thistle | Victoria | 333 | 1 | | | 22 | 48 | 11 | Ottawa River. |
| Thistle | White Star. (Lake | 464 | ١,, | 19 | 451 | 44 | 08 | Paddle | . Lake Ontario. |
| Acacia 200 " 20 107 16 54 Screw, Hamilton and Burlington. Modjeska 801 " 20 678 62 24 " Toronto and Hamilton. A. J. Tymon { Coasting 448. 300 " 27 194 23 52 " Lake Ontario. Union 80 " 29 267 29 36 Screw, Niagara Falls. Lincoln { Lake 330. " 30 62 9 96 Screw, Niagara Falls. Gem 40 June 1 9 5 72 " Portage and Pt. Sydney. | Phietle (Coasting | 345 | 1 | 25 | | | | 1 | |
| Modjeska 301 20 678 62 24 Toronto and Hamilton. A. J. Tymon Coasting 448 300 27 194 23 52 Lake Ontario. Union 300 29 267 29 36 Paddle, Fort Erie and Black Rock. Maid of the Mist 80 30 62 9 96 Screw, Niagara Falls. Lincoln Lake 330 337 34 96 Toronto and St. Catharines. Gem 40 June 1 9 5 72 Portage and Pt. Sydney. | A cacia | 200 | ı | | | 16 | 54 | Screw. | Hamilton and Burlington. |
| A. J. Tymon { Coasting 448 } | Modjeska | 801 | | 20 | 678 | 62 | 24 | | Toronto and Hamilton. |
| 25 267 25 268 27 280 29 29 29 29 29 29 29 2 | | | | 27 | 194 | 23 | 52 | " | Lake Ontario. |
| Maid of the Mist | Inion Coasting | 300 | 1 | | 1 ' | 1 | | | |
| Lincoln {Lake330} " 30 337 34 96 " Toronto and St. Catharines. Gem | Maid of the Mist | 80 | ı | | | 9 | 96 | Screw, | Niagara Falls. |
| Gem | Lake | 330 | ١ | | | | | 1 | |
| 1899. | Coasting | 498 J | i | | 1 | | | 1 | |
| | <i>т</i> ет | 20 | une | 1 | 9 | . 9 | , Z | " | 101 wage and Pt. Sydney. |
| 7. H. Jones | | 1 | 18 | 99. | | | | 1 | |
| J. H. Jones | | .00 | | | | • | 0.4 | | T.1 m .~ |
| 11—6 | | 30 | Oct | 1 | 152 | 20 | 24 |) 11 | Lake Huron and Georgian Bay. |

STEAM Vessels Inspected, &c.—West Ontario Division—Continued.

HULL INSPECTION—Continue 1.

| Name of Vessel. | Number of Passen- gers Allowed. | Date Certific Expire | ate Ton | ıs. | Tonnage Dues and Inspec- tion Fees Paid | Class of Vessel and where employed. |
|-----------------------------------------------------------|---------------------------------------------|------------------------------------|-------------------------------|-------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Toronto | 36 400 | " 1 | 5 2,7 8 9 | 79 46 980 178 | 8 68 86 40 | Paddle, Hamilton and Prescott. Screw, Bay of Quinté. Paddle, Cleveland and Soo. Screw, Lake Huron and Georgian Bay. |
| Mink | 40 | 1899. Aug. 1 1900 | ī | 56 | 9 48 | " Muskoka Lakes." |
| St. Andrew. Urania Hope Abina Mazeppa Britannic Emma Edna | 500. 300. 40. 300. 277. 150. | " 2 " 2 " 2 May June 3 | 2 8 1 1 7 8 1 1 4 | 13 398 170 8 146 128 75 55 | 79 84 21 60 5 64 19 65 42 24 11 00 | Paddle, Lake Erie. Screw, Buffalo and Ft. Erie. Niagara River. Toronto and Hamilton. Paddle, Georgian Bay. Screw, Penetang, and Pt. aux Baril. |

WM. EVANS.

Hull Inspector.

Steam Vessels Inspected in Canada but Registered elsewhere, for the Year ended June 30, 1899.

WEST ONTARIO DIVISION..

HULL INSPECTION.

| Name of Vessel. | Number of Passen- gers Allowed. | Da Certif Expi | icate | Gross Tons. | | | Class of Vessel and where employed | | |
|--------------------------------|---------------------------------------------|----------------------|---------------|----------------|------|------|------------------------------------|-------------------------------------------------|--|
| | | 189 | 9. | | \$ (| ets. | | | |
| olumbia | 671 | July | 25 | 399 | 39 | 92 | Screw | , Lake Erie. | |
| liverside | | Not is | | 125 | 18 | 00 | 46 | , | |
| dlehour | 74 6 | July | 26 | 348 | 35 | 84 | 66 | " | |
| uritan | 725 | " | 26 | 409 | | 72 | " | " | |
| 'earl | 845 | " | 27 | 552 | | 16 | Paddl | | |
| azelle | 512 | " | 27 | 183 | | | Screw | ,_ " | |
| ictoria | 182 | " | 28 | 192 | | 36 | " | Detroit and Windsor. | |
| xcelsior | 560 | | 29 | 229 | | 32 | | | |
| romise | 769 | 4. | 29 | 473 | | 84 | | between Lakes Erie and Huron. | |
| appho | 558 | " | 29 | | | 92 | | " " | |
| ortune | 502 | " | 30 | 200 | | 00 | 1 | 7.7 | |
| dlewild | 806 | | 30 | 363 538 | 37 | 06 | Paddi | e, Toledo and Pt. Huron. | |
| Parius Cole | 1,088 | | 30 | | | 31 | " | Lake Erie and Lake Huron. Toledo and Sarnia. | |
| ity of Toledo | 1,120 | Aug. | $\frac{1}{3}$ | $1,004 \\ 621$ | | 70 | | Detroit and Port Huron. | |
| reyhound | $1,353 \\ 226$ | | 1 | | | 16 | | Windsor and Detroit. | |
| Ariel | 904 | | 2 | 320 | | 60 | | Detroit and Sugar Island. | |
| Vyandotte | 398 | | 4 | | | 76 | | Lakes Erie and Huron. | |
| Omer D. Conger Grace Dormer | 162 | | 4 | 66 | | 28 | | Sarnia and Port Huron. | |
| James Beard | 150 | | 5 | 87 | | 96 | | (i iii iiii iiii iiii | |
| ransfer | 248 | Sept. | | 1,511 | 128 | | | Windsor and Detroit. | |
| ransport | 256 | 66 | 21 | 1,595 | | | 66 | " | |
| Aichigan Central | | | 22 | 1,522 | | | 66 | " | |
| News Boy | 381 | • 6 | 22 | | | οŏ | Screw | , Amherstburg and Sarnia. | |
| nternational | 380 | | 29 | | | 52 | 66 | Soo and Thessalon. | |
| City of Green Bay | 84 | 66 | 29 | | | 56 | " | Soo and Cariboo Island. | |
| Viagara | 100 | May | 25 | 214 | | 12 | " | Buffalo and Fort Erie. | |
| | ! | 190 | 00. | | | | | | |
| Arundell | Lake 300) | June | 12 | 339 | 35 | 12 | " | Sarnia and Ogdensburg. | |
| Annie F. Owen | 40 | June | | 50 | 1 | 00 | ١.، | Niagara River. | |

^{*} Overpaid \$3.00 each for inspection fee.

WM. EVANS, Hull Inspector.

STEAM Vessels not Inspected for the Year ended 30th June, 1899.

WEST ONTARIO DIVISION.

HULL INSPECTION.

| Name of Vessel. | Gross Tonnage. | Reg- istered Tonnage. | Remarks. Why not inspected and class of vessel. | | |
|-----------------------------------------------------------------------------------------------------|---------------------------------------------|--------------------------------------------------------|-------------------------------------------------------------|--|--|
| Ontario Gilphie J. C. Clark City of Mt. Clemens. Queen Maple Leaf Advance. Gordon Gauthier. | $\begin{array}{c} 12 \\ 72 \end{array}$ | 445 18 99 69 5 8 49 | No application. | | |
| Walter S. Davis Carlton. Lorna Doone Geraldine. Bertha Maud Fred Davidson. Masonic Odessa Arlington | 46 8 18 65 18 40 43 39 | 37 6 12 45 12 27 29 26 8 16 | Inspected during first week in July, 1899. No application. | | |

WM. EVANS,

Hull Inspector.

STEAM Vessels Inspected for the Year ended December 30, 1899.

EAST ONTARIO DIVISION.

BOILERS AND MACHINERY.

| Name of Vessel. | ne of Vessel. Number of Date Certificate Expires. | | Gross Tons. | Tonnage Dues and Inspec- tion Fees Paid | d | Class of Vessel and where employed. | |
|-------------------------------------------------------------------|----------------------------------------------------|---------|-----------------|-----------------------------------------|--------------|-------------------------------------|---------------------------------------------------|
| | | 189 | 9. | | \$ ct | s. | |
| Rosedale | | July | 2 | 1,506 93 | 128 56 | | Freight, great lakes. |
| Dorothy | | " | 2 2 | 10·09 25·73 | 5 80 7 08 | 2 | Trenton and Prescott. |
| Edmond | 50 | | 1 | 39.10 | 8 1 | 2 | Tug, Rideau Canal. |
| Miltonia | | | 11 | 32.18 | 7 5 | | Pleasure yacht. |
| Madge | | 11 | 16 | 9.49 | 2nd Inst | | 1 1 11 |
| Jopl | 40 | | 16 | 10.54 | 5 8 | 8 | Kingston and Ottawa. |
| North Star | 165 | ., | 18 | 39.60 | 8 20 | 0 [| Rice Lake and tributaries. |
| Beaver | 75 | ,, | 19 | 18.00 | 6 4 | 4 | u u |
| Eclipse | 100 | " | 19 | 17.94 | 6 4 | | 11 11 |
| City of Peterborough. | 300 | | 20 | 287 60 | 31 0 | | H H |
| Sunbeam | 210 | " | 21 | 104.92 | 16 40 | | Cos. Victoria and Peterboro. |
| Golden City | 175 | " | 21 | 68:02 | 10 4 10 4 | | 11 11 |
| Majestic | 185 | " | $\frac{22}{99}$ | 67 · 77 71 · 75 | 10 7 | | " " |
| Alice EthelGrev Hound | 190 40 | " | $\frac{23}{25}$ | 37.35 | 7 9 | | 11 11 |
| Marie Louise | | " | 25 | 39 02 | 8 1 | | " " |
| Maple Leaf | 70 | ,, | 26 | 26.08 | 7 0 | | " " |
| ~ . | | ĺ | | [| 12 3 | 2* |) T |
| Myrtle | | 11 | 26 | 91.50 | 12 3 | $_{2}$ | Tug " |
| Crandella | 400 | 11 | 27 | 266 · 20 | 29 2 | | in in |
| Water Witch | | 10 | 27 | 9.20 | 5 7 | | Tug, Lindsay waters. Cos. Victoria and Peterboro. |
| Comet | 35 | 11 | 28 | 7.60 | 5 6 | | Cos. Victoria and Peterboro. |
| Express | 20 | | 28. | 3.90 | 5 3 | 2 | Scugog Lake and river. |
| Nouna Roy | | - " | 29 | 4.14 | 5 3 | | Pleasure yacht. |
| Dawn | 40 | " | 29 | 20:20 | 6 6 | | Cos. Victoria and Peterboro. |
| Beaubocage | | " | 30 | 129:00 | 18 3 | | Pleasure yacht. |
| Calumet Esturian | | Aug. | 1 | 21 · 87 139 · 39 | 6 7 | | Cos. Victoria ond Peterboro. |
| Undine | | Aug. | 1 | | 6 1 | | Cos. Victoria ond 1 cost servi |
| Lady of the Lake | | 1 " | 2 | | 7 6 | | ,, |
| Rainbow | | 1 " | 3 | 25 92 | 7 0 | | Rice Lake and tributaries. |
| Albani | | | 5 | | 9 6 | i4 | Pleasure vacht. |
| Olga | 25 | | 5., | | 5 4 | | Kingston and Prescott. |
| Ingoniar | | . " | 6., | | 6.7 | | Pleasure yacht. |
| International | | 111 | 15 | | 39 6 | | Brockville and Prescott. |
| C. F. Dunbar | | . 11 | 16 | | | 14 | Tug, Cornwall Canal. |
| Princess Louise | | 1 | 16 | | |)8)0 | Kingston and Montreal. Tug, Cornwall Canal. |
| Mona Ivy | 30 | . " | 17 17 | | | JU 56 | Cornwall and Lake St. Francis. |
| Sandy | | " | 18. | | | 32 | Tug, canal. |
| Grenada | | 1 " | 18. | | | | Kingston and Montreal. |
| Beaver | | | 22. | | | | Tug, canal and river. |
| Alaska | . | . 11 | 22. | . 48.74 | | | " River St. Lawrence. |
| Maggio A Ronnatt | | | 23. | . 33.85 | | | " river and canal. |
| H. C. Curtis | | . " | 23. | . 36 19 | | | 11 |
| Mary Ellen | · · · · · · · · · · · · · · · · · · · | | 24. | . 20 22 | | | ti ti |
| W. J. Poupore | | . Sept. | . 13. | . 46.54 | 8 | | " " |
| Hubert Larkin | | . Aug. | 31. | . 48.73 | 8 9 | | 11 11 |
| H. C. Curtis. Mary Ellen W. J. Poupore Hubert Larkin Montmorency. | . | . " | 31. | . 17 · 81 46 · 38 | | | " " |
| Fearless | | 111 | 31. | 40 90 | | 88 88 | " " |
| A. B. Cooke | | . " | 31. | | 7 | 72 | 1 1 1 |
| John Hunter | | | 31. | | | 56 | |
| Umbria | | | 31. | | | 44 | |
| Wm. Davis | | | 31 | | 8 | 20 | 11 11 |
| Mabel | | . " | 31. | . 11 24 | 5 | 88 | |
| Myra | | | 31. | . 73 21 | | | River St. Lawrence. |

^{*}For 1897.

STEAM Vessels Inspected, &c.—East Ontario Division—Continued.

BOILERS AND MACHINERY-Continued.

| 'Name of Vessel. | Number of Passen- gers Allowed. | Dat Certif Expi | icate | Gross Tons. | Tonnage Dues and Inspection Fees Paid. | Name of Vessel and where employed. |
|---------------------------------------------|------------------------------------------|-----------------------|---------------|-----------------------------------------|----------------------------------------|----------------------------------------------------------|
| | | 189 | 9. | | ŝ ets. | |
| 1 handoon | 10 . | Sept. | 99 | 12:65 | 6.04 | Kingston and Ottawa. |
| Aberdeen Eva Belle | 10 | - | 99 | 10.10 | 5 80 | in in in |
| Kilbirnie | | Aug. | 31 | 15 23 | | Pleasure yacht. |
| Nellie | 20 | Sept. | 24 | 6.82 | 5 56 | Kingston and Ottawa. |
| Tropic Commodore | 15 | | 26 | 8:86 | 5 72 | C 1. DI 1.T W |
| Commodore | 25 | Sept. | | 3·06 40·83 | | Carleton Place and Innesville. |
| Gilbert | | Aug. Oct. | 11 | 18.22 | | Tug, canal and river. Ferry, Tyendinaga and Sophiasburg. |
| Timee Edward | • • • • • | 190 | - 1 | 10 22 | : | Terry, Lycustings and Dophinsonig. |
| Resolute | 25 | Mar. | i | 371 · 86 | 37 76 | All lakes and rivers. |
| Pierrepont | 415 | April | | 251 98 | | Cape Vincent and Prescott. |
| David G. Thomson | ; | 11 | 7 | 185 05 | 19 80 | Tug, lake and river. |
| Jessie Hall | | | 7 | 56 54 | 9 56 | " River St. Lawrence. |
| Hero {to Montreal} | 475 | | 8 | 342 12 | 35 36 | Trenton and Montreal. |
| Deseronto | 85 | | 10 | 54 57 | 9 40 | Trenton and Prescott. |
| Rescue | 25 | ., | 10 | 52:29 | 9 16 | " |
| Ella Ross | 300 | 11 | 11 | 324 88 | 34 00 | Brighton " |
| Nile | 25 | 11 | 11 | 96:30 13:83 | 12 68 6 12 | Freight, Bay of Quinté. Trenton and Picton. |
| Ranger | | | 12 | 732 41 | 63 56 | Freight, all lakes. |
| Rosemount | 10 | | 13 | 1,580.37 | 134 40 | and passengers, all lakes. |
| Bannockburn | 15 | | 13 | 1,619 56 | 137 60 | 0 0 |
| Bothnia | | 11 | 14 | | 71 64 | H H H |
| Reginald | | | 14 | | 19 88 65 00 | Tug, lake and river. |
| D. D. Calvin. | 13 | | 14 15 | 1,073 49 | 93 84 | Freight, all lakes. and passengers, all lakes. |
| Arabian | 135 | ** | 15 | | 9 16 | Trenton and Prescott. |
| Orion | | | 17 | | 72 68 | Freight, all lakes. |
| Petrel | | ** | 17 | | 32 68 | Tug, all lakes. |
| Aberdeen | · · · · · · · · · · · · · · · · · · · | . " | 19 | 144 · 86 95 · 09 | 16 36 12 60 | Freight, lake and river. |
| 450 on t | enn | ĺ | 19 | | 77 04 | Charlette and Monte al |
| Alexandria (Lake) | 000 | " | 20 | | 1 | Charlotte and Montreal. |
| H. F. Bronson Active | | | 21 | 137 · 12 301 · 70 | 15 96 29 16 | Tug, lake and river. |
| Chieftain | | | 22 | | 39 80 | |
| William Johnston. | | | 22. | | 12 60 | |
| Hector | | " | 22 | 20 64 | 6 68 | |
| Frank Jackman Antelope | . | ** | 22 | | 8 12 | |
| Antelope | | " | 24 24 | 82·84 67·85 | | |
| St. George | | 11 | 25 | | | |
| North King | 525 | | 29 | 872 95 | | |
| James Swift | . 125 | May | 1 | | | Kingston and Ottawa. |
| Armenia. North King James Swift John Milne. | | | 1 | 108 53 | | |
| Parthia | | 1 11 | $\frac{2}{3}$ | 198:13 201:60 | | |
| John Haggart Dredge No. 5 | . 200 | ** | 4 | | | St. Lawrence Canals. |
| Quebec | | 11 | 4 | | | Freight, River St. Lawrence. |
| Mary A. Laughlin | | | 5 | 22 62 | | Tug, canal and river. |
| | | 189 | 99. | | | |
| Gracie | . 40 | Aug. | 15 | 10.50 | | Massena and Valleyfield. |
| Dredge Sir Hector | .: | 1 | | | | St. Lawrence Canals. |
| Dredge Central City | | | • • • • • | • • • • • • • • • • • • • • • • • • • • | | |
| Dredge Pontiac | | ! | | | | |
| | | | 00. | } | | |
| D. R. Van Allen | | | 8 | | | Freight, lake and river. |
| Saturn | 15 | 11 | 8 | 883.09 | 78 64 | and passengers, all lakes. |

STEAM Vessels Inspected, &c.—East Ontario Division—Continued.

BOILERS AND MACHINERY-Continued.

| Name of Vessel. | Number of Passen- gers Allowed. | Da Certif Expi | icate | Gross Tons. | Tonnag Dues ar Inspec tion Fees Par | id - | Class of Vessel and where employe |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|----------------------|---------------|---------------------|-------------------------------------------------|----------|----------------------------------------------------|
| | | 190 | 0. | | 8 c | ts. | |
| Rival Glide | 40 | May | 8 | 125 14 | 18 | 00 | Tug and passen., River St. Lawren |
| Glide | | 11 | 9 | 77:90 | 11 | 24 | " lake and river. |
| Ruth Jubilee | | " | 9 9 | 36 · 45 53 · 94 | 5 | 88 32 | " canal and river. Valleyfield and Massena. |
| to Montr'al | 606 | ,, | 9 | 553.03 | | | Trenton and Montreal. |
| America (to Montr'al) | 098 | | | | | | |
| kylark | | | 20 15 | 43 · 29 122 · 43 | | | Pleasure yacht. |
| Alberta | | " | 15 | 139 15 | 16 | | Freight, River St. Lawrence. |
| Mand L | | ,, | 15 | 14.05 | 6 | 12 | Tug, River St. Lawrence. |
| Maud L. C. H. Merritt King Ben. | 350 | ,, | 17 | 121 58 | 17 | 76 | Brighton and Prescott. |
| King Ben | | ,, | 22 22 | 145°36 17°90 | 16 | 60 | Freight, River St. Lawrence. Pleasure yacht. |
| reraldine Antelope Saiad | 40 | " | 25 | 24 98 | 7 | 00 | Trenton and Prescott. |
| Saiad | | June | 17 | 15.41 | 1 6 | 20 | Pleasure vacht. |
| Raindeer Varuna Brockville Curlew Jessie Forward | 245 | May | 21 | 58 29 | 9 | 64 | Trenton and Prescott. Brighton and Prescott. |
| Zaruna | 240 | _ '' | 21 | 134 04 | 18 | 72 | Brighton and Prescott. |
| Srockville | 375 | June | 20 | 190·75 8·55 | 20 | 72 | Kingston and Cornwall. Trenton and Prescott. |
| Juriew | 20 25 | May | 20 | 5.64 | | 48 | |
| Annie Lake | 40 | "" | 20 | 18.52 | | | Brighton and Prescott. |
| T. A. | | { | വ ി | 9.49 | 5 | 72 | Pleasure yacht. |
| {ismet | | " | 20 | 5.42 | 5 | 48 | 11 11 |
| Mange Kismet Carmana Marmora Jorothy Stranger Edmond | 10 | June | 20 | 56·08 12·96 | ;, | 40 | Marn.ora and Trent River. |
| Dorothy | 30 | U | 2 | 10.09 | 5 | 80 | Trenton and Prescott. |
| tranger | | July | 31 | 53 41 | 9 | 24 | Tug, Lindsay waters. |
| Edmond | | June | 1 | 39.10 | | 12 | anal and river. |
| orue Den | | 1 " | $\frac{6}{7}$ | 11 · 97 47 · 78 | | 96 84 | Pleasure yacht. |
| Where Now Vellie Cuthbert | 125 | | 7 | 59.03 | | | Kingston and Ottawa. |
| Vellie Cuthbert Cambria (Lake 400) | 600 | 11 | 12 | 937 25 | | | Toronto and Prescott. |
| , , , | | 189 | 9. | | | | |
| Stranger | | Aug. | . 20 | 49:58 | 9 | 00 | Tug, Cornwall Canal. |
| , cruing creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating the creating | | 190 | | | | | : |
| Arovle (Lake 535). | 750 | May | 20 | 800 · 29 | 64 | 00 | Toronto and Prescott. |
| Argyle (Lake 535). Maggie May | | June | 1 | 29:03 | 7 | 32 | Tug, canal and river. |
| Albani Lee | | | 19 | 57.83 | | | Pleasure yacht. |
| .ee | | " | 19 19 | 8·73 4·11 | 5 | 72 | Prescott and Gananoque. |
| Kenneth | 19 | 11 | 20 | 15.69 | | | Pleasure yacht. |
| Corrella | 20 | 11 | 20 | 3.81 | 5 | 32 | Kingston and Prescott. |
| Corrella | · | - 11 | 21. | 50.98 | 9 | 08 | Pleasure yacht. |
| nternational | 200 | ** | 23 | 395:31 | | | Prescott and Ogdensburg. Kingston and Prescott. |
| Aty of Belleville | 250 | " | 23 | 101 17 703 90 | | | Toronto and Quebec. |
| Venonah | | " | 24 | 5.26 | 5 | 48 | Pleasure yacht. |
| Ortmantonal | 25 | April | 1 | 239 14 | 27 | 12 | Freight and passengers, all lakes. |
| Armenia | 275 | June | 29 | 109:39 | | 80 | Trenton and Dickinson's Landing. |
| mesta | | | | 14:90 | | | Pleasure yacht. Fish tug, Bay of Quinté. |
| Hydra | | 189 | 29 | 5.70 | 3 | 20 | rish vag, Day of Quince. |
| Lillian B | 15 | Sept. | | 3.76 | 5 | 32 | Carleton Place and Innesville. |
| Total | | 1 - | | | | | |
| Total | i | 1 | | 25,995 64 | 2,960 | 40 | |

THOMAS P. THOMPSON,
Steamboat Inspector.

Steam Vessels Inspected in Canada but Registered elsewhere, &c.—East Ontario Division.

BOILERS AND MACHINERY.

| Name of Vessel | Number of Date Passengers Allowed. | | Gross Tons. Tonnage Dues and Inspection. Fees Paid. | | nd : | Class of Vessel and where employed. | | | |
|--------------------------------------------------------|------------------------------------|-------|------------------------------------------------------|----------|------|-------------------------------------|----------------------------------|--|--|
| | ! | 1899 | 9. | | \$ 0 | ets. | | | |
| aletta | 40 | July | 5 | 27 · 84 | 7 | 24 | Screw, Kingston and Ogdensburg. | | |
| en'l W. B. Franklin. | 25 | | 5 | 10.20 | 5 | 80 | 11 11 11 | | |
| ophia | 60 | •• | 5 | 16.36 | | 28 | " Trenton and Ft. Covington. | | |
| irius | 46 | " | 6 | 17 80 | 6 | 44 | " Kingston and . | | |
| Ainnie | | | | | | ٠. | | | |
| lettie | 25 | July | 6 | 11 02 | | 88 | " Kingston and Ogdensburg. | | |
| laude S | 2 5 | " | $\frac{7}{7}$ | | | 28 7e | " " " | | |
| /irginia | | 11 | $\frac{7}{7}$ | | | 76 76 | Tranton and | | |
| I. P. Bigelow | | 1, | 8 | | | 48 | Trenton and "Kingston and " | | |
| . Wonder | | " | 0 | 0 00 | 0 | 30 | " Kingson and " | | |
| prv | | July | 8 | 4.39 | 5 | 32 | 1 " " | | |
| Ariel | | | | | | | .] " " " | | |
| unita | | July | 9 | 20.24 | 6 | 60 | " Trenton and " | | |
| sland Belle | 335 | " | 9 | 89.77 | 12 | 20 | " Kingston and " | | |
| $Arundell \dots \begin{cases} Lake \\ 250 \end{cases}$ | 600 | | 12 | 339 · 39 | 35 | 12 | " Sarnia and " | | |
| | | 1 | | | | - | | | |
| Badger State | | Aug. | | 1,115.52 | 97 | | | | |
| Empire State | | | • • • • • | 1,116.53 | 97 | 30 | i ii ii | | |
| | ! ! | 190 | Ю. | 1 | | | | | |
| slander | 416 | April | 13 | 118.61 | 17 | 52 | Paddle, Kingston and Ogdensburg. | | |
| New Island Wanderer. | 400 | 11 | 15 | | | 68 | | | |
| Outing | 25 | May | | 15.87 | | 28 | | | |
| St. Lawrence | | 1,, | 16 | 312.90 | 33 | 04 | Paddle, Kingston and Montreal. | | |
| Empire ∫to Montr'l) | 863 | | 16 | 379.74 | 38 | 40 | | | |
| State 600 J | 1 | 1 | | | 1 | | | | |
| New York | | | 16 | | | 60 | | | |
| Jessie Bain | | June | 16 | | | 52 | | | |
| Sophia | | June | 20 | | | 28 48 | | | |
| win Armstrong | 20 | ! " | ٠٠٠. | 101 24 | 44 | 40 | Ogdensburg. | | |
| Capt. Visgar | 80 | ١,, | 21 | 29.23 | 7 | 42 | | | |
| Island Belle | 335 | " | 21 | | | 20 | | | |
| Milton | | | 22 | 19.42 | | 52 | | | |
| Dean | | ., | 22 | 11 19 | | 88 | | | |
| Cresco | 65 | | 22 | 62.00 | 9 | 96 | 11 11 | | |
| Messina | 250 | 100 | 23 | | | 12 | | | |
| Spencer Meade | 35 | i | 24 | | | 44 | | | |
| Valetta | | | 26 | | | 24 | | | |
| Virginia | 50 | April | | | | 76 | | | |
| IT D D:1 | | | | | | '/* | Trenton and Ogdensburg. | | |
| H. P. Bigelow | | | | 70 01 | 0 | 76 | " Trenton and Ogdensburg. | | |

THOS. P. THOMPSON, Steamboat Inspector.

STEAM Vessels not Inspected for the year ended June 30, 1899.

EAST ONTARIO DIVISION.

BOILERS AND MACHINERY.

| Name of Vessel. | Gross Tonnage. | Registered Tonnage. | REMARKS. Why not Inspected and Class of Vessel. | | | | | |
|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|--|--|--|--|
| Dolce. Pilgrim Rescue. Caribou. Mary Ethel. Startled Fawn Mildred Anna Olga, Transit. | 4 74 262 49 7 23 144 19 98 61 25 49 4 50 7 89 5 28 140 81 | 3·22 165·37 4·92 97·49 56·13 17·34 3·06 6·49 3·84 92·93 | Passenger, screw; no a paddle screw paddle screw yacht, screw yacht, screw passenger, screw tug, screw tug, screw | application. '' '' '' '' '' '' '' '' '' | | | | |

THOS. P. THOMPSON,
Steamboat Inspector.

STEAM Vessels Inspected for the Year ended June 30, 1899.

EAST ONTARIO DIVISION.

HULL INSPECTION.

| Name of Vessel. | Number Date of Passen- Certificate gers Expires. Allowed. | | icate | Gross Tons. | Dues Inspec | Tonnage Dues and Inspection Fees Paid. | | Class of vessel and where employed | | | |
|--------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|-------|---------------|-----------------------|-------------|-----------------------------------------|------------------|------------------------------------|-------------------------|------------|--|
| | | 189 | 99. | | 8 | cts. | | | | | |
| Dorothy | 30 | July | 2 | 10 09 | 5 | 80 | Screw. | Trenton and | Prescott. | | |
| Sophy | | | 2 | 25.73 | | 08 | " | " | 1100000 | | |
| Jopl | 40 | 11 | 16 | 10.54 | | 88 | | Kingston and | | | |
| North Star | | | 18 | 39.60 | | 20 | | Rice Lake an | id its tribi | utaries. | |
| Beaver Eclipse | 75 100 | " | 19 19 | 18:00 17:94 | | 44 44 | ** | 11 | ** | | |
| City of Peterborough | 300 | 1 , | 21 | 287 60 | | 04 | Paddle | " | ** | | |
| Majestic | | | 21 | 67 74 | | 44 | | Cos. Victoria | and Peter | chara | |
| Sunbeam | 210 | 11 | 22 | 104.92 | | 40 | 11 | " | ç | 0010. | |
| Golden City | 175 | 17 | 22 | 68:02 | | 44 | 11 | 11 | ú | | |
| Alice Ethel | | | 23 | 71.75 | | 76 | Paddle | ** | ** | | |
| Grey Hound | 40 110 | | 25 25 | 37 · 35 39 · 02 | | 96 | Screw | 11 | 11 | | |
| Maple Leaf | 70 | 11 | 26 | 26:08 | | $\begin{array}{c} 12 \\ 08 \end{array}$ | 11 | | ** | | |
| Comet | | ** | 27 | 7:60 | | 64 | " | 11 | ** | | |
| Crandella | | | 27 | 266 20 | | $\frac{3}{28}$ | Paddle | | " | | |
| Express | | | 28 | 3.90 | | 32 | | Scugog Lake | and River | r . | |
| Dawn | 40 | | 29 | 20.20 | | 60 | ,, | Cos. Victoria | and Peter | rboro. | |
| Beaubocage | | 4 | 30 | 129 00 | | 32 | Paddle | 11 | 11 | | |
| Esturion | $\frac{297}{22}$ | Aug. | 1 | 139°39 13°81 | | 12 | 61 | ** | ** | | |
| Lady of the Lake | 40 | 11 | 2 | 32.95 | | $\frac{12}{64}$ | Screw | | ** | | |
| Rainbow | 40 | " | 3 | 25 92 | | 08 | 11 | Rice Lake an | vlite tribu | torios | |
| Ivy | 30 | | 17 | 7 43 | | 56 | | Cornwalland | | | |
| Grenada | | 11 | 18 | 57:00 | 9 | 56 | | Kingston and | | | |
| International | 200 | 11 | 22 | 395 31 | | 60 | | erew, Brockv | | | |
| Meteor | 350 | . " | 24 . | 299 · 43 | 31 | 92 | | Gordon Cr | reek and | North | |
| Clyde | 60 | | 24 | 29.16 | 7 | 32 | Tem | scamingue. | | | |
| Wenoway | 40 | | $\tilde{2}6$ | 98.96 | | | Paddla | , Lake Quinze | . " | | |
| Dora | | ** | 27 | 48:32 | | 84 | Screw. | Gordon Cr | eek and | North | |
| | | | | | | | | scamingue. | | 1.0101 | |
| Argo | 75 | | 27 | 154.06 | 17 | 32 | | , Gordon C scamingue. | reek and | North | |
| Temiscamingue | 400 | 11 | 29 | 412 89 | 41 | 04 | | 11 | ,, | | |
| Charlotte | 30 | " | 30 | 13.86 | | 12 | Screw, | Kippewa Lal | ke. | | |
| R. Hurdman Maid of the Mill | 40 | . II | 31 | | | 44 | - 11 | 337 1 11 | | | |
| Dauntless | $\frac{20}{20}$ | Sept. | $\frac{1}{3}$ | 8·18 7·93 | 1 | 64 64 | " | Wahnapitae | Lake. | | |
| Gracie | 40 | 1 11 | 17 | 10.50 | | 88 | | Lake Nipissi , Massena and | | าส | |
| Princess Louise, | 100 | 11 | 17 | 26:36 | | 08 | Screw. | Kingston and | d Vaneyne l Montreal | i. | |
| $\underline{\mathbf{Commodore}}$ | | | | 3.06 | 5 | 24 | , | gcom tenic | · wonde | • | |
| Tropic | 15 | Sept. | | 8.86 | | 72 | " | 11 | Ottawa. | | |
| Nellie | 20 | . " | 24 | 6.82 | | 56 | | *1 | ** | | |
| Aberdeen | Ferry | Oct. | 26 15 | $\frac{12.65}{18.22}$ | 1 | $\frac{04}{44}$ | Centre | paddle, Tye | ndinaga a | nd So | |
| Thistle | 15 | 11 | 19 | 2.18 | 5 | | phias | burg. Barry's Bay | Ü | | |
| | | 190 | 1 | | | | 1 | | | | |
| Pierrepont | | April | 3 | 251 98 | 28 | 16 | Paddle, Prese | Trenton and | d C. Vince | ent and | |
| $\begin{array}{ll} \mathbf{America.} & \begin{pmatrix} \mathbf{Prescott} \\ \mathbf{Montreal} \end{pmatrix} \end{array}$ | 698 j 500 j | ., | 7 | 553 03 | 52 | 24 | | H | u | | |
| Hero. Prescott | 475) | ., | 10 | 342 12 | 35 | 36 | Paddla | Trenton and | Montre | ı | |
| Resolute | 300 ∫ 25 | 1 | : | | | | 1 | | | ١. | |
| Bannockburn | 25 15 | 11 | 15 | 371 86 | | 76 | | all lakes and | rivers. | | |
| Glengarry | | " | 17 19 | 1,619·56 732·41 | | 56 | " | 11 | | | |
| Rosemount | | | 17 | | | O() | 11 | | | | |

STEAM Vessels Inspected, &c.—East Ontario Division—Concluded.

 ${\tt HULL\ INSPECTION} - Concluded.$

| Name of Vessel | Number of Passengers Allowed. Date Certificate Expires. | | Gross Tons. | | Tonnag Dues an Inspection Fees Pai | d on | Class of | Vessel and where employed. | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-------|----------------|--------------------|---------------------------------------------|--------------|-----------------|----------------------------|-------------------------------------------------------|
| | | 190 | 0. | | - - | \$ ct | ts. | | |
| Ella Ross | 300 | April | 18 | 324 · 8 | 38 | | | | Brighton and Prescott. |
| Deseronto | 85 | | 18 | 54 1 | | | | | renton and Prescott. |
| D. D. Calvin | | 1 | 20 22 | $749.3 \\ 1,073.4$ | | 65 (93 (| | | ll lakes and rivers. Duluth and Quebec. |
| Arabian | Fraight | | 26 | 623 | | . 54 | | | ll lakes and rivers. |
| Bothnia | | | 26 | 833 | | 71 | | | " |
| Orion | " | | 27 | 846 | | 72 | | ** | ** |
| $egin{aligned} \mathbf{Alexandria} & \mathbf{Lake} & \dots \ \mathbf{River} \end{aligned}$ | 450) | " | 27 | 863:1 | 15 | 77 | 04 | Paddle. | Charlotte and Montreal. |
| River | 600) | ł | | | - 1 | | - 1 | | |
| Valeria North King | | | 28 29 | 51 8 872 9 | | | | | Trenton and Prescott. L. Ontario and R. St. Law- |
| James Swift | 125 | May | 1. | 265 | | | | Screw, I | Kingston and Ottawa. |
| John Haggart | 250 | " | 3 | 201 | | 24 | 16 | Screw, | Ottawa and Montreal. |
| Saturn | 15 | " | 4 | 883 (317 (| | 78 30 | | | all lakes and rivers. |
| D. R. Vanallen | | " | 5 9 | 53 | | | 32 | 11 | V'leyfield,C'nwall& Massena |
| Jubilee Eva Bell | | ,, | 18. | 10 | | | 80 | | Kingston and Ottawa. |
| C. H. Merritt, | | 11 | 19 | 121 | | 17 | | | Brighton and Prescott. |
| Varuna | | | 19 | 134 | | 18 | | | |
| Reindeer | 165 | | 19 | 58 | | | 64 | | Trenton and Prescott. |
| ${f Antelope}$ | | - " | 25 | 24 | | | 00) | | Vinceton and Commol |
| Brockville | 375 | June | | 190 | | 23 | 20 52 | . " | Kingston and Cornwall. Brighton and Prescott. |
| Annie Lake Jessie Forward | | May | 29 29 | $\frac{18}{5}$ | | | 48 | | Trenton and Prescott. |
| Curlew | | " | 29 | 8. | | | 72 | | 11 11 |
| Marmora | | | 30 | 12 | | | 04 | | Marmora and Trent River. |
| Sparrow | | June | 6 | 38. | | | 04 | | Callender and Franks Bay. |
| ${f Dauntless}$ | | 11 | 6 | | 93 | | 64 | | Lake Nipissing. |
| Ladas | | " | 6 | 54 · 346 · | | | 32 | | Callender and Chaudière. Wisawasa & Sturgeon Falls |
| Booth | | " | $\frac{6}{6}$ | 340 15 | | | | | North Bay and South River |
| Queen | 7.1 | ,, | 8 | 54 | | | 40 | | Wahnapitae Lake. |
| Maid of the Mill | | | 8 | | 18 | 5 | 64 | | |
| Victoria | | | 10 | 187 | 58 | 23 | 04 | Paddle, | Pembroke & Des Joachims. |
| D. B. Mulligan | . 40 | | 10 | 76 | 69 | 11 | 16 | Screw, | Pembroke & Allumette Id. |
| $\operatorname{Cambria} \left\{ egin{aligned} \operatorname{\mathbf{Lake}} & \ldots & \operatorname{\mathbf{Coasting}} & \ldots & \operatorname{\mathbf{Coasting}} & \ldots & \operatorname{\mathbf{Coasting}} & \ldots & \end{array} ight.$ | 400 [| ,, | 12 | 937 | 25 | 82 | 96 | Paddle, | Toronto and Prescott. |
| Iona (Coasting. | . 600 ∫ . 15 | ,, | 12 | 231 | | | | Screw, | all lakes and rivers. |
| , , (Lake | | | | | | | | | |
| $ Argyle $ $ \begin{cases} Lake\\ River Excn. $ | 750} | " | 14 | 700 | | 1 | | 1 | Toronto and Prescott. |
| Rival | 40 | 11 | 17 | 125 | | 18 | | | Brighton and Montreal. |
| Corella | ., 20 | | 19 | | 81 | | $\frac{32}{32}$ | Screw, | Kingston and Prescott. Prescott and Gananoque. |
| KennethInternational | | " | 19 23 | 395 · | 11 31 | | | | rew, Prescott & Ogdensburg. |
| City of Belleville | | '' | 23 | 101 | | | | | Kingston and Prescott. |
| | | | - 1 | | | | | | rew, Toronto and Quebec. |
| $ \begin{array}{l} \text{Columbian} & \text{Lake} \\ \text{Coasting} \end{array} $ | 950 } | " | 24 | 703 | | i | | 1 | • |
| Mahigama | .1 40 | " | 27 | 19. | | | | | Pembroke and Ft. William. |
| Lillian B | . 15 | " | 27 | 3. | 76 | 5 | 32 |): u | Carleton Place & Innesville. |
| | | 189 | 99. | | | i | | 1 | |
| Commodore | . 25 | Sept. | 27 | 3 | 06 | 5 | 24 | | Carleton Place & Innesville. |
| | 2., | 190 | | | | | | | |
| | | 1 | | | _ | | 10 | | 11.1 1.1 |
| Reliance | | June | | 239 | | 1 | $\frac{12}{80}$ | | all lakes and rivers. |
| Armenia | | " | 30 | 109 | | | $\frac{80}{12}$ | | Trenton & Dickensons Luding Trenton and Picton. |
| Ranger | . 25 | ** | 30 | 13 | · 83 · 29 | | $\frac{12}{16}$ | | Trenton and Prescott. |

ALEXANDER HORN, Hull Inspector.

Steams Vessels Inspected in Canada but Registered elsewhere for the Year ended June 30, 1899.

EAST ONTARIO DIVISION.

HULL INSPECTION.

| * | | | | | |
|-------------------------------------------|---------------------------------------------|---------------------------------|---------------------------------|------------------------------------------------------------|------------------------------------------------------------------------------------------|
| Name of Vessel. | Number of Passen- gers Allowed. | Date Certificate Expires. | Gross Tons. | Tonnage Dues and In- spection Fees Paid. | Class of Vessel and where employed. |
| | | 1899. | | , | |
| Sirius Sophia Valetta Minnie | 46 60 40 | July 6 6 6 Not issued | 17:80 16:36 27:84 9:74 | 6 28 7 24 | Screw, Kingston and Ft. Covington Trenton and Ft. Covington. Kingston and Ogdensburg. |
| H. P. Bigelow Nettie Spry | 100 25 24 | July 7 | 46·67 11·02 4·39 | 8 76 5 88 5 32 | Trenton and Ogdensburg. Kingston and Ogdensburg. |
| Naiad Claude S Gen. W. B. Franklin. | 12 25 25 | " 8 " 8 | 6·00 15·55 10·20 | 5 48 6 28 5 80 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| Virginia | | Not issued | 21 72 | 6 76 | |
| Junita | 45 335 | July 11 | 20 · 24 89 · 77 | 6 60 12 20 | Trenton and Ogdensburg. Kingston and Ogdensburg. |
| Arundell | R. 600 | " 12 | 339.39 | 35 12 | " Samia and Ogdensburg. |
| Badger State { | Reg. 153 | Aug. 6 | 1,115 52 | 97 28 | Duluth and Prescott. |
| Empire State | | Not issued 1900. | 1,116.53 | 97 36 | all lakes, rivers and bays. |
| Islander | 416 | April 8 | 118 61 | 17 52 | Paddle, Kingston, Cape Vincent and |
| Outing New Island Wanderer | 25 400 | May 12 | 15 87 123 00 | 6 28 23 68 | Ogdensburg. Screw, Cape Vincent & Ft. Covington. "Kingston, Cape Vincent and Ogdensburg. |
| New York | 730 645 600 | " 17. " 16 | 294 · 00 312 · 90 | 31 60 33 04 | Paddle, Kingston and Montreal. Kingston, Cape Vincent and Montreal. |
| State Ogdensburgh Jessie Bain | 863 j | " 17 " 16 | 379·74 44·37 | 38 40 8 52 | Screw. Kingston and Ogdensburg. |
| Sophia | Ferry 25 | June 12 20 | 16 36 181 24 29 23 | $\begin{array}{c} 6 \ 28 \\ 22 \ 48 \\ 7 \ 32 \end{array}$ | Trenton and Ft. Covington. Brockville and Ogdensburg. Ogdensburg and Kingston. |
| Island Belle Milton Dean | 45 22 | " 21 " 22 | 19·42 11·19 | 12 20 6 52 5 88 | C. Vincent and Ft. Covington. |
| Cresco | 250 | " 22 " 23 " 24 | 62·00 89·67 | 12 12 | " Cape Vincent and Cornwall. |
| | 1 | | 1 | | ı |

ALEXANDER HORN,

Hull Inspector.

STEAM Vessels not Inspected for the Year ended June 30, 1899.

EAST ONTARIO DIVISION.

HULL INSPECTION.

| Name of Vessel. | Gross Tonnage. | Reg- istered Tonnage. | Remarks. Why not Inspected and Class of Vessel. |
|-----------------------------------------------------------------------|-------------------------------------------|---------------------------------------------------|---------------------------------------------------------------------------|
| Dolce Pilgrim. Rescue Caribou Mary Ethel. Startled Fawn Olga. Transit | 262 · 49 7 · 23 144 · 19 98 · 61 | 165 37 4 92 97 49 56 13 17 34 3 84 | Screw; no application. Paddle Screw Paddle Screw Twin screw Twin screw |

ALEXANDER HORN, Hull Inspector.

STATEMENT of Tow Barges Inspected, and of Certificates of Inspection Issued to Tow Barges, for the Year ended June 30, 1899.

EAST ONTARIO DIVISION.

| Name of Vessel. | Number of Passen- gers. | Port of Inspection. | Date of Inspection | Date Certificate Expires. | Date of Issue of Certificate | Gross Tonnage. | Inspection Fees. | Date of Payment. | |
|------------------------------------------------------------------------------------------------|---------------------------------------|------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------------------------------------|-------------------------------------------------|--------------------------------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------|--|
| | | | 1898. | 1899. | 1898. | | \$ cts. | 1898. | |
| Sultana Eclipse Lindsay Chemong City of Peterboro'. Otonabee. John Loughrin Chaudiere Carleton | 200 500 400 200 200 80 | Peterborough. Lakefield Lindsay. Fenelon Falls. Peterborough. Turtle Portage Sturgeon Falls Carleton Place | 22. 25. 29. Aug. 3. 30. Sept. 2. | " 22 " 25 " 29 Aug. 3 " 30 Sept. 2 | " 12 " 12 " 12 " 12 " 12 Sept. 8 | 40·00 37·50 75·00 103·23 49·50 49·00 35·92 71·70 67·94 | 10 00 10 00 10 00 10 00 10 00 10 00 10 00 | July 19 " 22 " 23 " 29 Aug. 3 " 30 Sept. 2 Oct. 4 | |
| | | | 1899. | 1900. | 1899. | | | 1899. | |
| Hastings Chaudiere | 125 150 | Birdsall Sturgeon Falls | May 30. June 9. | May 30 June 9 | June 24 | 35·58 71·70 | | May 30 June 8 | |
| Total | | l | | | | 637 · 07 | 110 00 | | |

ALEXANDER HORN,
Steamboat Inspector.

STEAM Vessels Inspected for the Year ended June 30, 1899.

MONTREAL DIVISION.

BOILERS AND MACHINERY.

| Name of Vessel. | Number of Passen- gers Allowed. | Da Certif Expi | icate | Gross Tons. | Tonnage Dues and In- spection Fees Paid. | Class of Vessel and where employed |
|------------------------------------------------------|---------------------------------------------|----------------------|--------------|----------------------|-------------------------------------------------|----------------------------------------------------------------------|
| | | 189 | 9. | | \$ cts. | |
| Winona | | July | 29 | 12.00 | 5 96 | Screw tug, Ottawa River, |
| Clyde | 60 | 11 | 30 | 29 · 16 | 7 32 | pass., Temiscamingue Lake. |
| | | . " | 30 | 299:43 | 31 92 | 11 11 11 11 |
| H. Trudel | | | | 13.38 | 6 04 5 40 | Warp tug, Quinze. |
| John Thompson | 40 | 11 | $rac{1}{2}$ | 5·15 98 96 | 12 92 | Screw yacht " " Paddle pass. " " |
| Wenoway Ballantyne | 40 | ! "; | $\tilde{2}$ | 13.82 | 6 04 | Warp tug |
| Quinze | | 1 | 2 | 32 46 | 7 56 | Screw " |
| Argo | 75 | ,, | 5 | 154 06 | 17 32 | Paddle pass., Temiscamingue Lake. |
| Årgo Dera | 25 | | 5 | 48.32 | 8 84 | Screw " " " |
| Temiscamingue. | 400 | 11 | 6 | 412:89 | 41 04 | Paddle " " |
| Otter D. A. Martin | · · · · · · · · · · · · · · · · · · · | | 6 | 21 · 16 77 · 60 | 6 68 | Warp tug, Kippewa Lake. Screw "North River. "passenger, Kippewa Lake |
| D. A. Martin | 30 | " | 6 8 | 13.86 | 11 24 6 12 | borew i North River. |
| Charlotte R. Hurdman | 40 | 1 | 8 | $93 \cdot 12$ | 12 44 | " passenger, Kippewa Lak |
| North River | | .,, | 8 | 13.61 | 6 12 | Warp tug, North River. |
| Beaver | | 11 | 9 | 13.09 | 6 04 | Warp tug, North River. Temiscamingue Lake. |
| North River Beaver Mink Maid of the Mill | | " | 9 | 13 82 | 6 12 | 11 11 11 11 |
| Maid of the Mill | 20 | 1 11 | 10 | 8.18 | 5 64 | Screw pass., Wahnapitae |
| Turtle River Belle | | " | 11 12 | 33·12 14·14 | $\begin{array}{c} 7 & 64 \\ 6 & 12 \end{array}$ | Warp tug, Nipising Screw tug, Combernere and Barry Bay. |
| Weslemkoon | | | 13 | 17:00 | 6 36 | Warp tug. Nipissing Lake. |
| Monarque | | | 15 | 136 · 41 | 15 88 | Paddle tug. Ottawa River. |
| Lake Owl Janet Craig | \ | 31 | 20 | 145 00 | 16 60 | Screw "St. Lawrence River. |
| Qw1 | `····· | NT - A - | 25 | 3.69 | 5 32 | yacht. |
| Janet Craig | | NOT 18 | suea | 11·73 33·67 | 5 96 7 72 | passenger, Chats Lake. Richelieu Lake. |
| Richelieu | •••• | Sept. | 30 | 14.19 | | tug, Ottawa River. |
| Alcyone | | Oct. | 20 | 38.44 | 8 04 | vacht. |
| Thistle | 15 | | 26 | · 2 18 | | pass., Barry's Bay and Haverga |
| Wild Rose | | | 9 | 9.97 | 5 80 | " yacht. |
| T '3 | 900 | 190 | į | 365 42 | 37 20 | Daddle former Montanal & T |
| Longueuil | 300 600 | April | 11 | 419.00 | 41 52 | Paddle ferry, Montreal & Longueur Bouchervill |
| Hochelaga | 125 | ,,, | 24 | 894 43 | 79 52 | Screw passenger, Montreal & Toledo. |
| Duchess of York | 700 | | 25 | 489.74 | 47 20 | Paddle Ottawa River. |
| Duchess of York Chateauguay Nora McNaughton Florence | 40 | 11 | 25 | 222 27 | 25 76 | " Montreal & Chateaugus |
| Nora | | | 26. | | 7 24 | Screw tug, St. Lawrence River. |
| McNaughton | | " | 27 | 137.19 112.94 | 15 96 14 04 | 11 11 11 11 |
| Florence | | | 27 28 | 79.62 | 11 40 | Ottawa " |
| E B Eddy | | " | 28 | 78 14 | 11 24 | ii ii Ottawa ii |
| E. B. Eddy Dolphin | | | 28 | 69 66 | 10 60 | 11 11 11 11 |
| Florence | | . 11 | 28 | 61.53 | 9 96 | 11 11 11 11 |
| G. H. Notter | | 11 | 28 | 14 00 | 6 12 | 11 II II II |
| Sir Hector | | | 28 | 39.72 | 8 20 | и и и н |
| Rockland | 140 | " | 29 | 77·56 247·26 | 11 24 27 76 | " passenger Montreal and Ottow |
| Ida Hall | 50 50 | 11 | 29 29 | | 27 76 | passenger, Montreal and Ottaw |
| | | | 29 | 143 43 | 19 44 | H 0 0 H |
| Welshman Harry Bate D. B. Mulligan | 50 | 1 | 29 | 253.71 | 28 32 | 11 11 11 11 |
| D. B. Mulligan | 40 | May | 1 | 76 69 | 11 16 | " ferry, Pembroke and Desjardi |
| Victoria | 400 | 1,0 | 1 | 187.58 | 23 04 | Paddle pass., Des Joachi |
| C. B. Powell | · · · · · · · · · · · · · · · · · · · | | 1 | 272 · 34 320 · 20 | 26 76 30 60 | tug, Upper Ottawa River. |
| | | | | | | |
| Alex, Fraser E. H. Bronson | | " | 2 | 285 22 | 27 80 | 11 11 12 11 13 13 13 13 |

STEAM Vessels Inspected, &c.—Montreal Division—Continued.

BOILERS AND MACHINERY-Continued.

| Name of Vessel. | Number of Passengers Allowed. | Date Certificate Expires. | | Gross Tons. | Tonna Dues a Inspec tion Fees Pa | nd e- | Class of Vessel and where employed. |
|-------------------------------------------------------------|----------------------------------------|---------------------------------|----------|---------------------|----------------------------------------------|---------------|----------------------------------------------------------------|
| | | 19 | 00. | | \$ 0 | ets. | |
| Nama | i : | Max | 3 | 41 86 | . 8 | 36 | Screw yacht. |
| | | | 3 | 17.35 | 6 | 36 | |
| Bonito F. W. McRae | | | 5 | 46.00 | | 68 | |
| Mansfield | 60 | " | 6 | 1 6 9 · 06 | 21 | 52 | |
| Charlemagne | | Ì | 6 | 76 38 | 11 | 08 | l'Isle tug St. Lawrence River. |
| Bonenfant | 20 | May | 6 | 21 · 34 | | | Paddle, ferry, Charlemagne and Bout |
| Donemant | | 1.243 | • • • | •. | | ,,, | de l'Isle. |
| Sovereign | | | 9 | 637 29 | | 96 | pass., Montreal and Carillon. |
| Garnet | | | 9 | 152.05 | | 16 | , |
| Filgate | 189 | | 9 | 425 · 00 87 · 46 | | 96 | |
| G. H. Harris | | 11 | 11 | 428.50 | 42 | 24 | Screw, tug, Ottawa River. Paddle, pass., Collingwood and Geor- |
| Mocket | 211 | ! " | | 120 00 | | | gean Bay ports. |
| Princess | | | 11 | 579.96 | | 32 | Paddle, pass., Montreal and Carillon. |
| Richelieu | | | 11 | 113.38 | 17 | 04 | |
| Empress | 800 | •• | 12 | 677.60 | | 16 | Grenville. |
| Albert | · · · · · · · · · · · · | 11 | 13 13 | 216 · 98 17 · 09 | | 36 | tug, Upper Ottawa River. Screw, yacht. |
| Juno | • • • • • • • • • | 11 | 13 | 30:38 | | | tug, Upper Ottawa River. |
| G. B. Pattee G. B. Green | 565 | | 13 . | 254 · 81 | | | Paddle, pass., Aylmer and Chats Rap. |
| Samson | | 11 | 15 | 15.27 | 6 | 20 | tug, Upper Ottawa River. |
| J. L. Murphy | | | 15 | 173 05 | | | Screw " " " |
| Madawaska | , | " | 15 | 14 57 | | | Warp " " " |
| Amable du Fond Hamilton | | " | 15 15 | 17:40 319:88 | | 36 | Paddle " " " |
| Princess Louise | 200 | " | 16 | 114 · 88 | 17 | 20 | Screw, pass., Ottawa and Grenville. |
| E. G. Laverdure | 100 | ,, | 16 | 54.00 | 9 | 32 | u u u u |
| Princess Louise E. G. Laverdure Beatrice B Marquis of Lorne | 40 | " | 16 | 58 63 | | 72 | |
| Marquis of Lorne | | " | 16 | 20.19 | | 60 | |
| Emile | : 40 | " | 16 17 | 11·80 28·52 | | 96 | |
| Russell | | " | 17 | 76.49 | | . 16 | |
| Bella Ritchie | | | 17 | 68.52 | 10 | 52 | Paddle, pass., Ottawa & Papineauville |
| Minnie Bell | | 1,, | 17 | 21 . 74 | ! ! € | 3 7€ | Screw, tug, Rideau Canal. |
| Robert Anglin | | 11 | 17 | 97 18 | 3 12 | 2:76 | |
| Agnes | 40 | ,, | 18 | 29:37 | 7) 7 | 32 | River. Buckingham and High |
| zignes | | " | 10 | 20 0 | 1 | 02 | Falls. |
| Leon | 20 |) ,, | 18 | 14.57 | ϵ | 29 | Screw, pass., High Falls and Notre |
| - | | | | | | | Dame de la Garde. |
| Thurso | 40 | " | 19 | 20 · 07 12 · 00 | | | Paddle, ferry, Thurso and Clarence. Screw, tug, Ottawa River. |
| WinonaIshaway | | | 19 25 | 6.70 | |) 90 5 56 | |
| Hiram Easton | | | 29 | 34 0 | | 7 72 | |
| Glide | 40 |) ,, | 29 | 80.48 | | 4(| ferry, Hawkesbury and Calumet |
| Glide T. Osborne | 1 | . " | 29 | 24 . 97 | | 00 | tug, Ottawa River. |
| Laurier | | June | 1 | 18.60 | | 5 59 | |
| OliveSt. Michael | | " | 1 2 | 213·00 15·6 | | 5 04 | l " " Portland. B Paddle, tug, Ottawa River. |
| Col. By | | " | 2 | 9.3 | , (1 | , 20 179 | Screw, tug, Ottawa Kiver. Screw, tug, Rideau Canal. |
| Napierville | 4(| | 3 | 165.4 | 1 2 | (20 | Paddle, ferry, Cote Ste. Catherine and |
| • | | i | | | 1 | | Verdun. |
| Nosbonsing Booth | | J " | 5 | 24 5 | 3 | 7 00 | Screw, tug, Nosbonsing Lake. |
| Booth | 40 |) | 5 | 347 00 | 3 | 76 | Paddle, pass., Wisawasa and Sturgeor |
| Zephyr | | | 5 | 2.78 | 2 . | 5 92 | Falls. Screw, tug, Nipissing Lake. |
| Ladas | 40 | | 5 | | ' | $\frac{2}{3}$ | 2 " pass Callander and Chaudiere. |
| Dauntless | 20 | | 6 | 7.9 | | 5 6- | |
| | | | | | | | . 0 |

^{*} Name changed to Britannic.

STRAM Vessels Inspected, &c.—Montreal Division—Concluded.

BOILERS AND MACHINERY—Concluded.

| Name of Vessel. | Number of Passengers Allowed. | Da Certii Expi | ficate | Gross Tons. | Tonna Dues a Inspec tion Fees Pa | nd e- | Class of Vessel and where employed. |
|--------------------------------------------------------------|----------------------------------------|----------------------|--------|----------------|----------------------------------------------|----------|---------------------------------------------------|
| | : | 190 | 00. | | \$ 0 | ets. | |
| Sparrow | | June | 6 | 38:17 | | | Screw, pass. Callander and Frank's Bay |
| Shoofly | | ** | 6 7 | 9·99 15·37 | | 80 20 | |
| Queen | | ** | | 54 · 54 | | | |
| Verva | 10 | " | 8 | 8.18 | | 64 | |
| Maid of the Mill | 20 | " | 8 | | | 88 | 1 " |
| Empress Turtle | | " | 9 | 35.57 | | | |
| Turtle | • • • • • • • • • • | | 9 | 33 12 | 10 | 0-1 | Warp " |
| Hebron | • • • • • • • • • | " | 13 | 149 00 | 10 | 92 | Screw, freight, St. Lawrence and Ottawa River. |
| Maude | 350 | ١,, | 16 | 269 · 23 | 29 | 52 | Paddle, pass., Montreal and Ottawa |
| Lady of the Lake | 700 | | 24 | 607.00 | 56 | 56 | " Newport and Magog. |
| Owl | 10 | ., | 24 | 3.69 | | | Screw " " " |
| Annie C | 10 | | 24 | 6.33 | | 51 | |
| John A | | | 24 | 19.70 | | 60 | |
| | | | 26 | 433 83 | | 72 | |
| Robinault | 200 | 11 | 26. | 332.00 | | 56 | Valleyfield. |
| Chaffey | 40 | | 27 | 42.44 | | 36 | |
| White Squall | | 11 | 27 | | | 56 | wacht. |
| John | 25 | ., | 28 | 35 17 | | | Paddle, ferry, Carillon and Point |
| Prefontaine. Robinault Chaffey. White Squall. John. †Frolic. | | | 29 | 15.72 | 12 | 56 | Fortune. Screw, yacht. |
| Total | | İ | | 15,432 95 | 1,957 | 39 | |

⁺ Paid dues and fees for 1898 and 1899.

WM. LAURIE,
Steamboat Inspector.

Steam Vessels Inspected, &c.—Montreal Division. BOILERS AND MACHINERY.

| Name of Vessel | Number of Passen- gers Allowed. | Date Certificate Expires. | Gross Tons, | Tonnage Dues and Inspec- tion Fees Paid. | Class of Vessel and where employed. |
|------------------------------------------------|------------------------------------------|---------------------------------|------------------------|------------------------------------------------------|----------------------------------------|
| | 1 | 1899. | | \$ cts. | i i |
| Nellie Reid | | | 55.71 | 1 - | Screw, tug, lake and rivers. |
| Maggie R. King | l | Aug. 10 | | 7 16 | canals. |
| Derrick No. 2 | | " 11 | | | Floating derrick, Montreal harbour, |
| Tim Doyle | | 19 | 14.84 | 6 20 | Screw, tug, canals. |
| Gracie *Windermere | 40 | 23 | 10 50 | 5 88 | Paddle, pass., Valleyfield & Massena. |
| Frank Parew | | Oct. 3 | 31 · 17 43 · 02 | 14 96 8 44 | Screw, yacht. |
| Frank Perew | | 20 . | 21.89 | 6 76 | u oug, nivers. |
| | | 1900. | | | |
| Derrick No. 5 | | ! | 100.00 | 13 00 | Floating derrick, Montreal harbour. |
| Derrick No. 4 | | ,, 24 | 100.00 | 13 00 | Proxing derrick, Montreal haroott. |
| Derrick No. 6 | | 27 | 100.00 | 13 00 | 11 |
| Dredge No. 1 | | " 29 | 100.00 | 13 00 | Spoon dredge |
| St Peter Dredge No. 2 | | | 43 00 100 00 | 8 44 13 00 | Screw, tug |
| Dredge No. 3 | | April 7. | 100.00 | 13 00 | Spoon dredge |
| Aberdeen | | | 86.58 | 11 96 | Screw, tug |
| St. Louis | | " 13 | 34 00 | 7 72 | |
| Drill boat | | " 17 | 100.00 | 13 00 | Floating drill boat, Montreal harbour. |
| Derrick No. 2 | | " 17 " 19 | $\frac{100.00}{32.05}$ | 13 00 7 56 | " derrick " Screw, tug, rivers. |
| Aurelia | | | 100.00 | 13 00 | Spoon dredge " |
| Dredge I. X. L | | . 20 | 100.00 | 13 00 | 11 11 |
| C. W. Jones | | " 20 | 47 96 | | Screw, tug |
| M. P. Davis | | " 21 | 11 00 | 5 88 | Montreal harbour. |
| Lucia | | May 1 | 41·07 43·05 | 8 28 8 44 | " canals. " lake and rivers. |
| H. Larosée | | " 15 | 12·69 | 6 04 | |
| Dama | 40 | ,, 15 | 54.58 | | Screw, pass., rivers. |
| Robert Stoker | | · 16 | 13.72 | 6 12 | tug, canals. |
| Mabel Macdonald | ···· | " 22 | 41.81 | 8 36 | tug, rivers. |
| Dredge No. 4 Dredge No. 6 | | " 22 | 100.00 | 13 00 13 00 | Spoon dredge, Soulanges Canal. |
| C. W. Dennis | | June 2 | 16.91 | 6 36 | Screw, tug, canals. |
| Plover | | · 2 | 40.30 | 8 20 | " rivers. |
| W. P. Buckley | | " 2 | 26.83 | 7 16 | 11 11 3 |
| Ida | ••••• | " 2 " 7 | 26 · 41 7 · 90 | 7 08 | canals. |
| Dandy | | " 7 " 8 | 46.00 | 5 64 8 68 | Screw, yacht. tug, rivers. |
| Shickluna | <i>.</i> | 8 | 66.00 | 10 28 | " " |
| Grain Elevator No. 15. | 1 | " 12 | 212.60 | 22 04 | " Elevator, Montreal harbour. |
| Grain Elevator No. 16. Grain Elevator No. 2 | · · · · · · · · · · · · · · · · · · · | " 12 | 210.31 | 21 80 | |
| Grain Elevator No. 8 | | " 15 | 170 00 80·00 | 18 60 11 40 | 11 11 11 |
| Grain Elevator No. 8. Grain Elevator No. 10. | | ,, 15 | 173.00 | 18 84 | 11 11 11 |
| Grain Elevator No. 12. | | 15 | 183.00 | 19 64 | 11 11 11 |
| Grain Elevator No. 11. | | | 169.00 | 18 52 | " " |
| H. M. Mixer Nellie Reid | | 40 | 30·00 55·71 | 7 40 9 48 | tug, rivers. tug, lake and rivers. |
| Grain Elevator No. 14. | | " 19 " 19 | 181 00 | 19 48 | Elevator, Montreal harbour. |
| Grain Elevator No. 1. | | ., 19 | 165 00 | 18 20 | 11 11 11 |
| Grain Elevator No. 13. | | " 20 | 178 00 | 19 24 | " " |
| Grain Elevator No. 7 | | " 20 | 170.00 | 18 60 | " " |
| Grain Elevator No. 9 Grain Elevator | | ıı 20 | 172.00 | 18 76 | " " |
| St. Lawrence No. 1 | | June 20 | 83.00 | 11 64 | " " |
| W. F. Logie | | " 21 | 17 32 | 6 36 | " tug, canals. |
| Grain Elevator No. 4. | | " 21 | 188.00 | 20 04 | " Elevator, Montreal harbour. |
| Grain Elevator No. 5 Grain Elevator No. 6 | | " 21 | 80.00 | 11 40 18 60 | 11 11 11 |
| Asilga | | " 21 " 28 | 170·00 23·72 | 6 84 | tng, canals, |
| | | | | i | Sign Continues |
| Total | ¹ | | 4,907 78 | 695 20 | |

^{*} Paid dues and fees for 1897 and 1898.

STEAM Vessels not Inspected for the Year ended June 30, 1899.

MONTREAL DIVISION.

BOILERS AND MACHINERY.

| Name of Vessel. | Gross Tonnage. | Reg- istered Tonnage. | Remarks. Why not Inspected and Class of Vessel. |
|-------------------------------------------------|--------------------------------------------|---------------------------------|--------------------------------------------------|
| Hiram Robinson | 60 · 9 ·) 9 · 69 22 · 08 | 38 80 6 05 21 47 | |
| Perrick No. 3. Hurtubise Tora. jittle Roxy | 100.00 46.12 5.18 11.67 | 42 52 3 96 6 88 | _ |
| Jnion Cit Willow Lottie Mattawan | 75°04 16°83 10°04 22°43 100°00 | 66 05 10 64 8 52 15 25 | Not running |
| Oredge No. 6 | 100.00 4.00 17.05 | 3:00 8:97 9:00 | |
| Eileen High Rock Elsie Ross Paul Smith | 11.00 7.00 9.83 293.16 | 5 00 7 76 184 69 | |
| Chummy. Vesta Conquerer Agnes McMahon | 5·37 14·17 233·04 81·48 | 3 76 7 56 208 57 46 51 | Chartered to the Government. |
| Enterprise feanne Hadys Dhipmunk | 13 · 43 16 · 12 26 · 01 37 · 00 | 9·14 10·96 17·69 25·00 | No application. |
| ompm | 1,348 64 | 767:75 | |

WM. LAURIE. LOUIS ARPIN.

STEAM Vessels Inspected for the Year ended June 30, 1899.

QUEBEC DIVISION.

BOILERS AND MACHINERY.

| | | | | | | 1 |
|----------------------------------------------------------|------------------|-------|-----------------|-----------------|----------------|----------------------------------------------------------------------------------------------------|
| | | | | | 1 | |
| | Number | | | | Tonnage | |
| | of | | ate | Gross | Dues and | |
| Name of Vesse | | | ficate | Tons. | Inspection | Class of Vessel and where employed. |
| | gers | Exp | ires. | Tons. | Fees Paid. | |
| | Allowed. | | | | r ces r uici. | |
| | | | | | | |
| | | 18 | 99. | | \$ cts. | |
| Jubilé | | Univ | 7 | 25 | 7 00 | Screw, pleasure yacht, Richelieu River |
| Nile | | | 7 | 28 | 7 24 | " " " " " " |
| Alleghany | | ,, | 7 | 5 | 5 40 | 11 11 |
| Alleghany Pierreville | | | 7 | 42 | 8 36 | Paddle, freight and tug, Pierreville |
| Admiral | 340 |) ,, | 11 | 682 | 62 56 | and Montreal. Paddle, pass., Gaspé and Dalhousie. |
| Admiral Lena | | ,,, | 19 | 22 | 6 76 | Screw, tug, Lake Megantic. |
| Mecanamac | | 11 | 19 | 4 | 5 32 | " pleasure vacht, Spider Lake. |
| Campania | | | 19 | 23 | 6 84 | u tug, Lake Megantic. |
| Mecanamac. Campania Polaris. | 450 |) " | 23 | 533 | 50 64 | winter ferry, Quebec and Levis |
| Frances | 40 |) | 30 | 19 | 6 52 | Pad., ferry, Campbellton and Cross |
| Christiana | | ļ.,, | 30 | 57 | 9 56 | Point. Paddle, tug, Restigouche River. |
| Christiana Oak Bay | | ۱,, | 30 | 27 | 7 16 | 11 11 |
| Fearless | | Aug. | 2 | 10 | 5 80 | Screw, tug, Pabos River. |
| Le Brochu Queen L'Amie | | | | | | a · · · · · |
| Queen | 450 | Aug. | 8 | 367 | 37 36 | Screw, winter ferry, Quebec and Levis. |
| L'Amie | | , | 9 | 16 | 6 28 | " tug, Quebec Harbour. |
| St. George Two Brothers | : | . 11 | 10 | 12 | 5 96 | 11 11 11 |
| Two Brothers | | | 12 | 23 | 6 84 | 11 11 11 11 11 11 |
| Cygnet | | | 18 | 12 | 5 96 | " pleas. yacht, Sorel & Montreal. |
| CygnetLilley HBatiscan | | a.". | 29 | 14 | 6 12 | tug, Quebec Harbour. |
| Batiscan | | Sept. | ə | 40 99 | 8 20 12 92 | Paddle, tug, Quebec and Batiscan. |
| Siesta | 0.5 | 1 " | 8 | 348 | 35 84 | Screw, pleasure yacht. |
| Davoy | Zi | 0 | 12 | 50 | 9 08 | pass., Quebec and Anticosti. |
| Mario Louise | 40 | . " | 27 | 99 | 12 92 | tug, Saguenay River. |
| Kinogomi | 41 | " | 90 | $\frac{33}{21}$ | 6 68 | Paddle, ferry, Chicoutimi & Ste. Anne. Screw, tug, Saguenay River. |
| Marie Louise Kinogami Forest Thor Johanna B. | | " | 26 | 21 | 0 00 | belew, tug, baguenay itiver. |
| Thor. | | | | 323 | 30 84 | Paddle. tug, Saguenay River. |
| Johanna B. | | | | 17 | 6 36 | Screw, tug. |
| Shamrock | | Oct. | 17 | 237 | 26 96 | Screw, tug, tug, Buoy service, Quebec and |
| | 1 | i | | 00 | 4.00 | Montreal. |
| Mersey Almanda | Crew | Nov. | $\frac{3}{4}$. | 60 11 | 9 80 5 88 | Screw, tug, Quebec and Montreal. |
| | | ļ | | | | |
| _ | | 190 | | | | |
| Rhoda | 150 | April | 8 10 | 182 196 | 22 56 23 68 | Paddle, pass., Quebec and Rimousk Montreal and St. Jean d'Iberville. |
| Victoria | Cross | i | | 190 | 23 08 | Department of Public Works. |
| Chambly | | " | 12 | 535 | 50 80 | Montreal and Chambly. |
| Arthur | Crow | | 11 | 78 | 11 24 | Paddle, tug, Sorel and Napierville. |
| John Pratt | | | 11 | | 11 24 | Screw, tug, attending dredge. |
| Cartier | | " | | | 1 | boron, vag, acconding dredge, |
| Terrebonne | | | 13 | 636 | 58 88 | Montreal and Contrecœur pass. |
| Laprairie | | | 14 | 600 | 56 00 | and Laprairie pass. |
| Berthier | 600 | | 13 | 934 | 82 72 | and Three Rivers page |
| Sorel | 40 | | 14 | 158 | 20 64 | and Three Rivers pass. Sorel and St. Thomas de Pierreville. |
| Shamrock | Crew | 1 | | | | Dept. of Marine, laying buove in |
| Fire Fly | 40 | ,, | 15 | 214 | 25 12 | River St. Lawrence. Paddle, ferry, Sorel and Berthier. |
| Champion | | | 17 | 482 | 46 56 | Paddle, Quebec and Berthier. |
| |] | | 17 | 156 | 20 48 | Sirew, Quebec and St. Romuald. |
| Levia | 1 3.40 | | 18 | 807 | 72 56 | Montreal and St. Lohn's Nfld. |
| Levis | 350 | | | | | |
| Solino | . 3/ | . 1 | | | | |
| Solino | 30 | ,, | 18 | 269 | 29 52 | ferry, Quebec & Isle of Orleans. |
| Levis. Solino Orleans Savoy North | 36 350 25 | 11 | 18 19 | 269 348 | 29 52 35 84 | terry, Quebec & Isle of Orleans. |
| Solino | 350 350 25 | 11 | 18 | 269 | 29 52 | ferry, Quebec & Isle of Orleans. pass. & ft., Quebec & Anticosti. Paddle, pass., Quebec and Levis. |

 $11 - 7\frac{1}{2}$

STEAM Vessels Inspected, &c.—Quebec Division—Continued.

BOILERS AND MACHINERY-Continued.

| Name of Vessel. | Numb of Passe gers Allow | n. | Da Certif Expi | icate | Gross Tons. | Tonnage Dues and Inspec- tion Fees Paid | Class of Vessel and where employed. |
|-------------------------|--------------------------------------|------------|----------------------|--------------------------------------------------|--------------------------------------------|-----------------------------------------------------|---------------------------------------------------------------------------|
| | | | 190 | 0. | | \$ ets | s. · |
| Lenora | Crew | | April | 20 | 8 | 5 64 | Screw, pleasure yacht. |
| Hosanna | | 185 | - 11 | 21 | 89 | 12 12 | pass., Montreal and Longueui |
| Carolina Ethel | | 600 | | $egin{array}{c} 21 \dots \ 22 \dots \end{array}$ | 977 | 86 16 10 76 | |
| Montreal | | 800 | | 22 | $\begin{array}{c} 72 \\ 2,068 \end{array}$ | 173 44 | |
| Hudson | Crew. | | ,, | 24 | 158 | 17 64 | |
| Spray | | | ** | 24 | 107 | 13 56 | Screw " " |
| Saguenay | | 433 | | 24 | 992 | 87 36 | |
| Hamilton | | 375 | 2 | 24 | 938 199 | 83 04 23 92 | |
| Rivière du Loup | | 40 | " | 25 | 199 | 23 92 | Paddle, ferry, Varennes & L'Assom tion. |
| Ottawa | Crew | | " | 25 | | | Dept. of Public Works, screw tug a |
| W. C. Frances | 1 | | | 25 | 37 | 7 96 | tending dredge. Screw, Montreal harbour tug. |
| T. H. Nasmith | 1 | | " | 25 | 49 | 8 92 | |
| Rodolphe | | | | 26 | 116 | 14 28 | |
| Georgiana | | | ** | 26 | 53 | 9 24 | Screw, Montreal harbour tug. |
| Sincennes | " . | | " | 26 | 228 | 23 24 | Tanada Gueses |
| Campana | 9 | 400 340 | " | 27 28 | $1,697 \\ 682$ | 143 76 62 50 | |
| Spray of Quebec | Crew | 040 | May | 4 | 24 | 6 92 | |
| Charlevoix | | 75 | 11 | 1 | 212 | 24 90 | |
| Lord Stanley | | 3 0 | " | 2 | 276 | 30 08 | |
| Etoile | | 591 | ,, | 8 | 560 | 52 80 | Gulf St. Lawrence. Paddle, pass. and ft., Quebec and S Jean Deschaillons. |
| Alma | Crew. | | " | 9 | 12 | 5 96 | |
| St. Croix | | 550 | ** | 9 | 506 | 48 48 | Paddle, pass. and ft., Que. & St Cro |
| Temiscouata | | | ** | 10 12 | 11 | 5 88 | |
| Hope | 1 | | " | 11 | 19 | 6 52 | Dept. of Marine and Fisheries, buo |
| | | | | | | | and lighthouse service. |
| Cultivateur | 1 . | 750 | 17 | 18 | 362 | 36 96 | |
| Canada | 1 | 600 400 | ** | 18 19 | 1,768 968 | 149 44 85 44 | |
| Caspian | | 000 | " | 19 | | 132 16 | |
| St. Anne | | 40 | 11 | 19 | 14 | 6 12 | |
| Julia | | | 11 | 20 | 91 | 12 2 | Twin-screw, tug, Montreal & Chamb |
| Quebec | | 800 | - 11 | 20 | 2,656 | 220 48 | |
| Corsican Spartan | | 400 400 | " | 30 | 946 628 | 83 68 58 24 | |
| Daisy | Crew. | | | 1 | 4 | 5 3 | |
| Grace | | | ., | 1 | 4 | 5 32 | Pleasure yacht. |
| Algerian | | 400 | May | 18 | 914 | 81 13 | |
| Victor | | 27 | June | 6 9 | 35 86 | 7 80 | |
| Diver | | 150 | " | 9 | 274 | 29 9 | |
| St. Louis. | | 504 | ,,, | 12 | 428 | 42 2 | |
| Alice | Crew. | | " | 22 | 67 | 10 30 | Screw, Montreal harbour tug. |
| Richard | | 6 | " | 23 | 448 | 43 8 | |
| M. E. Hacket | | • • • • | " | 5 8 | 78 20 | 11 24 6 60 | |
| Lilly H Two Brothers | | • • • • | . 11 | 10 | 23 | 6 8 | |
| Pilot | .) . | 450 | 1 " | 24 | 426 | 42 0 | |
| St. Roch | Crew. | | 11 | 10 | 18 | 6 4 | tug, Quebec harbour. |
| Brothers | 4 : | 150 | ** | 27 | 367 | 37 3 | 3 Pad., pass. & ft., Montreal & Berthie |
| St. Francis | | • • • • | | | | | Government tug attending dredge |
| Como | | 40 | June | 2 8 | 75 | 11 0 | Public Works. Paddle, ferry, Three Rivers & Nicol |
| Bourgeois | . | 40 | 11 | 28 | 94 | 12 5 | 2 " " St.Grégo |
| Glacial | 1 | 100 | | 28 | 109 | | 2 Screw, "St. Angèl |

STEAM Vessels Inspected, &c.—Quebec Division—Continued.

BOILERS AND MACHINERY-Concluded.

| Name of Vessel. | Number of Passen- gers Allowed. | Date Certificate Expires. | Gross Tons. | Tonnage Dues and Inspec- tion Fees Paid. | Class of Vessel and where employed. |
|----------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-------------------------------------|------------------------------------------|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Blanford Beatrice. Ivan R. Florence St. George Marie Josephine Polaris Maud St. Pierre (Dredge) Mersey Florence (Schooner) | " 39 Crew 450 Crew | " 29 " 30 " 30 " 24 " 23 " 6 May 28 | 40 18 18 12 117 533 50 | 8 20 6 44 6 44 5 96 14 36 | Paddle, tug, St. Maurice River. Screw, pass., Piles and La Tuque. "tug," Quebec harbour tug. wrecking schooner, Gulf St. Lawrence. Screw, ferry, Quebec and Lévis. Paddle, tug, attending dredge. Dredging at Louiseville River. Screw, tug, Quebec harbour. "wrecking schooner. |

JOS. SAMSON,

Boiler and Machinery Inspector.

STEAM Vessels Inspected in Canada but Registered elsewhere, for the Year ended, June 30, 1899.

QUEBEC DIVISION.

BOILERS AND MACHINERY.

| Name of Vessel. | Number of Passen- gers Allowed. | Date Certificate Expires. | ertificate Gross | | Class of Vessel and where employed. | |
|-----------------|---------------------------------------------|---------------------------------|------------------|---------|-------------------------------------|--|
| Greetlands | 40 | 1900. May 8 | 10.90 | \$ cts. | | |

JOS. SAMSON, Boiler and Machinery Inspector.

STEAM Vessels not Inspected for the Year ended June 30, 1899.

QUEBEC DIVISION.

| Name of Vessel. | Gross Tonnage. | Registered Tonnage. | |
|-----------------|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dot Beaver | 9:85 373: 163:42 58:13 11:38 5:19 248:79 178:79 173:14 17: 4:08 10: 11:6:25:42:58 | 6·70 104 12·22 39·53 7·74 4·85 176·73 112·65 109·07 15· 2·77 3· 7· 4· 15· 15· 39· | Screw, tug, not running. Paddle, tug, did not run till July 14; inspected her since. Screw, tug, sold to Dept. of Public Works, Ottawa. "" has not been fitted up this year. "" pleasure yacht, engine taken out of her. Paddle, passenger, burnt at her wharf, L. St. John. "" want of water to run; inspected her since. "Screw" "" " pleasure yacht, engine taken out of her. "tug, not running this year. "" "" "" "" "" "" " "" "" " "" "" " " "" "" " " "" "" " " " "" "" " " " "" "" " " " " "" "" " " " " " " " " " " " " " " " " " " " |
| Genereux | 7· 1,401·78 | 681 · 16 | Screw, tug |

JOS. SAMSON,

Boiler and Machinery Inspector.

PIERRE D. BRUNELLE,

Hull Inspector.

STEAM Vessels Inspected for the Year ended June 30, 1899. QUEBEC AND MONTREAL DIVISION.

HULL INSPECTION.

| | | , | | | |
|--------------------|---------------------------------------------|---------------------------------|-------------------------------------------|-------------------------------------------------|---------------------------------------------------------------------------------|
| Name of Vessel. | Number of Passen- gers Allowed. | Date Certificate Expires. | Gross Tons. | Tonnage Dues and Inspection Fees Paid. | |
| | | 1899. | | \$ cts. | |
| T., bild | 40 | July 6 | 25 | 7 00 | Screw, pass., Quebec & Montreal. |
| Jubilé | 200 | 3 diy 6 | 192 | 23 36 | Montreal & Valleyfield. |
| Bonenfant | 20 | 26 | $\widetilde{21}$ | 6 68 | Pad., f'y, Charlemagne & Bout de l'Isle |
| Admiral | 340 | n 26 | 682 | 62 56 | Pad., pass. & ft., Montreal & Gaspé. |
| Harry Bate | Freight | . 27 | 254 | 28 32 | Screw, freight, Montreal & Ottawa. |
| Olive | 60 | " 27 . | 213 | 25 04 | Screw, pass. & ft., Montreal & Perth. |
| Isle Héron | 140 | " 27 " 27 | 160 247 | 20 80 27 76 | Pad., f'y, Verdun & C. Ste. Catherine. Screw, pass. & ft., Montreal & Ottawa |
| Ida Chaffey | 140 | 11 30 | 42 | 8 36 | terry, Valleyfield & Lancaster. |
| C. Anderson | 60 | ,, 25 | 125 | 15 00 | pass. & ft., Quebec & Chicoutimi. |
| Ivan R | 39 | Aug. 4 | 18 | 6 44 | " Piles & La Tuque. |
| *Undine | | | 17 | 6 36 | Roberval & G'de Décharge |
| †Peribonca | | 1 | 179 | 22 32 | Pad. " " |
| Mistassini | 40 | Aug. 10 | 249 173 | 27 92 21 84 | Mistassini. |
| Le Colon | 40 40 | 10 . | 99 | 12 92 | ferry, Chicoutimi & Ste. Anne. |
| Francis | 40 | ,, 10 | 19 | 6 52 | " Campbellton & Cross Pt. |
| Lena | | Condemn. | 22 | 6 76 | Screw, ferry, Lake Megantic & 3 Lakes |
| Tiber | -80 | Aug. 24 | 1,735 | 146 80 | pass. & ft., Mont. & Newf'dland |
| John | 30 | . 2 | 35 | 7 80 | Pad., ferry, Carillon & Pt. Fortune. |
| Polaris | 450 | Sept. 6 | 533 | 50 64 | Screw, ferry, Quebec & Levis. |
| Queen | 450 | " 7 | $\begin{array}{c} 367 \\ 426 \end{array}$ | 37 36 42 08 | 11 11 11 |
| Pilot Victor | 450 27 | " 8 " 8 | 35 | 7 80 | tender, Quebec Harbour. |
| Savoy | 25 | 16 | 348 | 35 84 | " pass. and freight, Quebec and |
| Savoy |) | 1900. | 0.20 | | Isle Anticosti. |
| Rhoda | 150 | April 1 | 182 | 22 56 | Paddle, pass., Quebec & Rimouski. |
| Polino | 30 | 1 1 | 807 | 72 56 | Screw, pass. & ft., Mont. & Newf'dland |
| Campana | 400 | " 1 | 1,697 | 143 76 35 84 | Montreal & Pictou. Quebec & Isle Anti- |
| Savoy | 25 | " 19 | 348 | 30 04 | costi. |
| Orleans | 530 | ıı 19 | 269 | 29 52 | Screw, ferry, Quebec & Isle Orleans. |
| Admiral | 340 | 19 | 682 | 62 56 | Pad., pass. & ft., Dalhousie & Gaspé. |
| Melbourne | 125 | n 22 | 894 | 79 52 | Screw, pass. & ft., Montreal & Toledo |
| Berthier | 600 | May 25 | 934 | 82 72 | Pad., pass., Montreal & Three Rivers. |
| Chambly | 600 | " 25 | 535 | 50 80 58 88 | " Chambly. " Sorel. |
| Terrebonne | 450 375 | 11 25 11 26 . | 636 938 | 83 04 | " Sorel. " Hamilton, |
| Hamilton | 800 | 11 26 . | 2,068 | 173 44 | " Quebec. |
| Fire Fly | 40 | 26 | 214 | 25 12 | " Sorel and Berthier. |
| Sorel | 40 | u 26 | 158 | 20 64 | " St. Thomas. |
| Laprairie | 350 | ıı 26 | 600 | 56 00 | Montreal & Laprairie. |
| Lord Stanley | | " 19 | 276 | 30 08 | Screw, wrecking str., Montreal & Gulf. |
| Charlevoix | | " 29 | 212 | 24 96 86 16 | pass. & ft., Quebec & Malbaie. Pad., pass., Montreal & Chicoutimi. |
| Carolina | 600 600 | 1 1 | $977 \\ 1,768$ | 149 44 | t " " " " |
| Levis | 350 | 25. | 156 | 20 48 | Screw, ferry, Quebec & St. Romuald. |
| Champion | 612 | 11 4 | 482 | 46 56 | Pad., pass., Quebec & Berthier. |
| Saguenay | 438 | 11 5. | 992 | 87 36 | " " Saguenay. |
| North | 450 | 1, 6 | 289 | 31 12 | Paddle, ferry, Quebec & Levis. |
| South | 454 | " 6 | 349 | 35 92 | passenger, Quebec & St. Jean |
| Etoile | 591 | " 8 | 560 | 52 80 | Déchaillons. |
| Ste. Croix | 550 | n 9 | 506 | 48 48 | Screw, pass., Quebec & Ste. Croix. |
| Hosanna | 185 | " 15. | 89 | 12 12 | ferry, Montreal & Longueuil. |
| Longueuil | 300 | " 15 | 365 | 37 20 41 52 | Pad., ferry, Hochelaga "Boucherville. |
| Hochelaga | 600 800 | " 15 " 16 | 419 677 | 62 16 | Pad., pass., Ottawa & Grenville. |
| Empress | 350 | 16 | 269 | 29 52 | " Montreal & Ottawa. |
| Maud Beatrice B | 40 | 16 | 59 | 9 72 | Screw, ferry, Ottawa & Hull. |
| Princess Louise | 200 | | 115 | | pass., " Grenville. |
| | | | | | = : |

^{*} Unfit to carry passengers. + Unfit to carry passengers.

STEAM Vessels Inspected, &c.—Quebec and Montreal Division.—Continued.

| HULL | INSPECTION—(| Continued. |
|------|--------------|------------|
|------|--------------|------------|

| Name of Vessel. | Number of Passen- gers Allowed. | Da Certi Exp | ficate | Gross Tons. | Tonnage Dues and Inspec- tion Fees Paid. | Class of Vessel and where employe |
|------------------|---------------------------------------------|--------------------|----------|----------------|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| | | 190 | 00. | | \$ cts. | |
| Bella Ritchie | 100 | May | 16 | 69 | 10 52 | Pad., pass., Ottawa & Papineauvil |
| Harry Bat | 50 | ., | 16 | 254 | 28 32 | Screw, pass. & ft., Ottawa & Montre |
| Emile | 40 | . 0 | 16 | 12 | 5 96 | " Mentreal & Ottawa. |
| G. Laverdure | 100 | - " | 17 | 54 | 9 32 | Screw, pass., Ottawa and Grenville. |
| Asrquis of Lorne | | . 0 | 17 | 20 | 6 60 | ferry, Ottawa and Hull. |
| B. Greene | 565 40 | 11 | 17 | 255 | 28 40 | Pad., pas., Aylmer & Shats Rapids. |
| Agnes | 25 | !! | 18 18 | 29 15 | 7 32 6 20 | Screw, ferry, Buck'ham & High Roc |
| réon | 20 | : '' | 18 | 15 | 6 20 | Screw ferry High Rook and Vot |
| æon | 20 | : " | 10 | 10 | 0 20 | Screw, ferry, High Rock and Not Dame de la Garde. |
| Churso | 4!) | . 11 | 19 | 20 | 6 60 | Paddle, ferry, Thurso and Clarence |
| Bonito | 30 | ** | 19 | 17 | 6 36 | Screw, ferry, Calumet and L'Orign |
| Hide | 40 | | 19 | 80 | 11 40 | " " Hawkesbur |
| Robinault | | | 22 | 332 | 34 56 | Screw, pass., Montreal & Valleyfiel |
| Velshman | | 11 | 22 | 143 | 19 44 | " " Ottawa |
| Algerian | | June | 23 | 914 | 81 12 | Pad., pass., Montreal & Hamilton. |
| orsican | | May | 23 | 946 | 83 68 | " Toronto. |
| aspian | 400 | D. | 23 | 968 | 85 44 | " " |
| Jueber | 800 | . 0 | 23 | 2,656 | 220 48 | Quebec. |
| Iansfield | | • ,, | 24 | 169 | 21 52 | Screw, ferry, Charlemagne and Bo de l'Isle. |
| rois Rivières | 1,000 | " | 30 | 1,552 | 132 16 | Pad., pas., Montreal and Ste. And de Beaupré. |
| partan | 400 | " | 30 | 946 | 83 68 | Pad., pass., Montreal and Toronto. |
| Bohemian | 200 150 | • | 30 . | 628 | 58 24 | Prescott. |
| Brothers | | " | 29 31 | 367 14 | 37 36 6 12 | Serow formy Sorol and Borthian |
| reetlands | | 1 " | 20 | 1,091 | 95 28 | Screw, ferry, Sorel and Berthier. Screw, pas.& ft, Montreal & f'rgn po |
| Iissawippi | 25 | June | 23 | 1,001 | 5 32 | Screw, pleasure yacht, Lake Mississ |
| ady of the Lake | | ** | 24 | 607 | 56 56 | Paddle, pass, Newport & Magog. |
| Owl | 10 | | 24 | 4 | 5 32 | Screw, pleasure yacht, Lake Magog |
| Annie C | 10 | 1 11 | 24 | 633 | 5 51 | 0 0 0 |
| Sovereign | | 1 11 | 26 | 637 | 58 96 | Paddle, pass., Montreal & Carillon |
| ohn | | . " | 26 | 35 | 7 80 | ferry, Carillon & Pt. Fortu |
| Chaffey | 40 | | 27 | 42 | 8 36 | Screw, terry, Valleyfield & Lancas |
| ligate | 189 | 11 | 27 27 | 425 | 42 00 | ferry, Carillon & Pt. Fortu Screw, ferry, Valleyfield & Lancas Paddle, pass., Montreal and Cornw Screw, pass., Montreal & Vaudreu |
| Prefontaine | 40 40 | " | 29 | 19 434 | 6 52 42 72 | & frt, " Quebec. |
| | 30 | " | 30 | 196 | 23 68 | " " St.Jean Iberv |
| Victoria | 700 | May | 25 | 490 | 47 20 | Pad., pass., Montreal and Carillon. |
| St. Louis | 514 | June | | 428 | 42 24 | Quebec and St. Je |
| | | i | 1 | | | Deschallions. |
| Victor | 27 | 111 | 12 . | 35 | 7 80 | Screw, tender, harbour of Quebec. |
| Jive | 60 | | 14 | 213 | 25 04 | Screw, pas. & ft, Mont. & PortlandO |
| Kivière du Loup | 40 | 11 | 14 | 199 | 23 92 | Pad., ferry, Varennes & l'Assompt |
| Bonenfant | 20 | " | 14 | 21 | 6 68 | Charlemagne & Bout de l'I |
| Hallda | | " | 15 | 247 247 | 27 76 | Screw, pass. & ft., Mont. & Ottawa |
| Oama | | 11 | 15 16 | 55 | 27 76 9 40 | Screw, pas., Montreal and Quebec. |
| Garnet | | " | 16 | 152 | 20 16 | Pad., pass., Montreal and Valleyfie |
| Princess | 443 | | 16 | 579 | 54 32 | " Comillon |
| sland Queen | | ., | 17 | 98 | 12 84 | Screw, ferry, Montreal & Longueu Screw, pas., Quebec and upper lak Pad., pas., Montreal and Chateaugu |
| Richard | 6 | | 22 | 448 | 43 84 | Screw, pas., Quebec and upper lak |
| Chateauguay | 40 | | 25 | 222 | 26 76 | Pad., pas,. Montreal and Chateaugu |
| Cultivateur | 730 | " | 22 | 362 | 36 96 | rad., ierry, Montreal & St. Helen |
| Contest | | July | 3 | 274 | 29 92 | Pad., pas., Quebec & Gulf of St. L. |
| Como | 40 | | 15 | 75 | 11 00 | Pad., pas., Quebec & Gulf of St. Le Pad., ferry, Three Rivers & Nicole Screw, Three Rivers & Ste. Ang |
| Flacial | 100 | " | 15 | 109 | 16 72 | Screw, Three Rivers & Ste. Ang |
| Bourgeois | 40 | 1 11 | 15 . | 94 | 12 52 | Pad., ferry, Three Rivers & St. Gi |

PIERRE D. BRUNELLE, Hull Inspector.

Steam Vessels Inspected in Canada but Registered elsewhere, for the Year ended June 30, 1899.

QUEBEC AND MONTREAL DIVISION.

HULL INSPECTION.

| Name of Vessel. | Number of Passen- gers. Allowed. | Date Certificate Expires. | Gross Tons. | Tonnage Dues and Inspection Fees Paid. | Class of Vessel and where employed. |
|-----------------|----------------------------------------------|---------------------------------|----------------|----------------------------------------|-----------------------------------------------------------------|
| Greetlands | 40 | 1900. May 8 | 1,091 | \$ cts. 95 28 | Screw, pass. and frt., between Mont- real and foreign ports. |

PIERRE D. BRUNELLE, Hull Inspector.

STEAM Vessels not Inspected for the Year ended June 30, 1899.

QUEBEC AND MONTREAL DIVISION.

HULL INSPECTION.

| Name of Vessel. | Gross Tonnage. | Register- ed Tonnage. | Remarks. Why not Inspected and Class of Vessel. |
|-----------------|-----------------------------------------------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Paul Smith | 293 · 16 22 · 05 498 · 33 370 · 13 1,383 · 83 | 325 · 51 240 · 35 | Pad., pas., not running this year. Screw, ferry, condemned and laid up. Pad., pas., on Lake Champlain, not requested to be inspected. Pad., pas., on Lake Champlain, not requested to be inspected. |

PIERRE D. BRUNELLE,

Hull Inspector.

STEAM Vessels Inspected for the Year ended June 30, 1899.

NOVA SCOTIA DIVISION.

BOILERS AND MACHINERY.

| Name of Vessel. | ame of Vessel. Number of Date Passengers Allowed. | | ficate | Gross Tons. | Tonnage Dues and Inspec- tion Fees Paid | Class o | of Vessel and where employed |
|---------------------------------------------------------|----------------------------------------------------|-------|------------------------------------------|----------------------------------|-----------------------------------------------------|---------|-------------------------------------------------------------|
| | | 1899. | | | \$ cts. | | |
| Oolphin | | July | 6 | 8:07 | | Screw, | fish boat, Yarmouth & coast. |
| da Lue | 30 | | 8 | 44 51 | | " | pass., Yarmouth & coastwise |
| Alpha | 150 | ** | 9 11 | 61 · 20 57 · 60 | | | freight, Avon River & coast. pass., La Have River. |
| La Rird | | | 14 | 41.28 | 8 28 | . " | freight, Halifax & coastwise |
| Zuba | 20 | ,, | 15 | 12.04 | | 1 | ferry, Barrington & C. Island |
| Aid | | 1 11 | 18 | 98.55 | |] ., | lighter, Liverpool & coast. |
| St. Michael | 15 | " | 18 | | | ., | pass., Liverpool & P. Mouto |
| Yuba Aid St. Michael | | ,, | 18 | | | " | water boat, Lunenburg Hrb |
| Maggie | 40 | " | 19 | 19:26 | | 1 | pass., Lunenburg and South |
| Sarrie | 40 | " | 19 23 | 14 83 12 84 | | " | pass., Mahone Bay & Cheste pass., Halifax Harbour. |
| Julorave | 975 | " | 25 | 484 86 | | | ferry, Strait of Canso. |
| Zulieka | | ,, | 26 | 12 38 | | ,, | yacht, Bras d'Or Lake. |
| Jommodore. Julgrave Julieka Eleanor M. Cates essie Gray | | Aug. | 2 | 58.81 | 9 72 | | tug, Louisburg & coastwise. |
| essie Gray | | " | 3 | 76 01 | 11.08 | Stern-v | vheel, lighter, Bras d'Or Lake |
| ennox | 25 | 11 | 4 | | | Paddle | , ferry, Lennox Passage. tug, Canso & coastwise. |
| Jennox | | 17 | 5 11 | 18:40 52:02 | | Screw, | lighten Helifey Herberg |
| Anticosti | • • • • • • • • • • • • • • • • • • • • | '' | 12 | 19:00 | 6 52 | " | lighter, Halifax Harbour. yacht, Halifax Harbour. |
| Ialcom Cann | 125 | ", | 17 | 211 81 | 24 96 | | pass Mulgrave & coastwise. |
| David Duncan | · · · · · · · · · · · · · · · | 11 | 18 | 20.59 | 6 68 | 11 | pass., Mulgrave & coastwise tug, St. Mary's Bay. |
| Centreville | | 11 | 18 | 59.71 | 9 80 | ** | freight, Centreville & coast. |
| Bessie and Harry | | 11 | 22 | 22:00 | | 1 | water boat, Halifax Harbour |
| Boyer | 100 | Mon | 24 | 60.00 10.45 | 9 80 5 80 | " | pass., Halifax Harbor. |
| Assorte | 20 20 | Sent. | 13 | 35.40 | | " | pass., Minor w'ters N. S.&C.I pass., Halifax Harbour. |
| Ascotte. Dolphin. | 15 | 11 | 17 | 12.78 | * 12 08 | | tug & pass., Meat Harbour & Moser's River. |
| a Have | | ., | 23 | 49.27 | 8 92 | 1, | tug, Halifax & coastwise. |
| A Have. | | Oct. | 10 | 42 12 | 8 36 | 11 | water boat, Halifax Harbour |
| Vilfred C | 60 | ** | 26 | 99.26 | 12 92 | | pass., Halifax & coastwise. |
| Vilfred C Bridgewater Aic-Mac | 225 | " | 28 | 207 79 | 24 64 | TD 133 | 11 11 11 11 11 11 |
| Aic-Mac Vanda | 40 | NT | 29 | 150 · 63 38 · 48 | 20 08 8 04 | Paddle, | ferry, Halifax Harbour. |
| VandaVanda | | Nov. | 1 | 12·24 | 5 96 | Screw, | tug, Yarmouth & coastwise. |
| | | | $egin{array}{c} 1. \ 2. \ . \end{array}$ | 49.66 | 8 92 | ,,, | fish boat, Yarmouth & coast. |
| sland Gem | | | 2 | 15.62 | 6 28 | , ,, | 11 11 |
| Vestport | 25 | | 2 | 80.09 | 11 40 | | pass., Yarmouth & coast. |
| a Tour | 70 | н | 3 | 154 43 | 20 32 | | 11 |
| ialitax | 250 | " | 10 | 338 42 | 35 04 | Paddle, | ferry, Halifax Harbour. |
| Ralph E. S. | ••• | Dea | 26 10 | 54 · 64 27 · 82 | 9 40 7 24 | Screw, | tug, Halifax Harbour & coast fish boat, Halifax & coast. |
| Vestport .a Tour lalifax lenry Hoover talph E. S alvor | | " | 31 | 44.93 | 8 60 | ,, | lighter, Halifax Harbour. |
| į | | 190 | | | | | |
| lewfoundland | | Feb. | 10 | 918.75 | 78 52 | | freight, foreign. |
| Iarlaw enore | 60 | '' | 25 | 451 36 | 44 08 | | passenger, foreign. |
| enore | | Marc | h 6 | 15.23 | 6 20 | " | fish boat, Halifax & coast. |
| ea Bird | | 11 | 9 10 | 41 · 28 59 · 91 | 8 28 9 80 | " | " |
| erena E | | | 16 | 24 94 | 7 00 | 11 | freight, "Yarmouth & coast. |
| 1. M | 40 | " | 16 | 47 58 | 8 84 | | pass., |
| ertrude M | | | | | | 4 | |
| Sarina | 40 | ** | 16 | 32.46 | 7 56 | ** | tug & pass., " |
| ertrude M. farina ouisburg lorence C. | 40 | " | 16 23 31 | 32 · 46 1,815 · 60 38 · 98 | 7 56 150 28 8 12 | 11 | |

^{*} Paid for 2 years.

STEAM Vessels Inspected, &c.—Nova Scotia Division—Continued.

BOILERS AND MACHINERY-Continued.

| Coban | | | | | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|-------------|----------|------------------|--------------------------|-----------|---------------------------------------|
| Cape Breton | Name of Vessel. | of Passen- gers | Certificate | | | Dues a Inspe- tion | and ec | |
| Coban | | | 189 | 99. | | * | ets. | |
| Colan | Cape Breton | | A pril | 12 12 | | | | freight & fish boat, Halifax & |
| St. Olaf. | | | | | | | | |
| Chester. | Bonavista. | 50 | \" | | 1,306 33 | | | |
| Chester. | St. Olaf | 150 | Marc | n I | 305 27 191:70 | | | |
| Rob Roy | Charten | 40 | Aprii | 24 | 79:50 | | | |
| Avon. | Pob Pov | | " | | | | | |
| Falmouth | Avon | 40 | | | | | | |
| W. M. Wea.herspoon | Falmouth | | ,, | | | 8 | 44 | |
| Alpha. 20 Nov. 27. 306 91 32 48 Screw, pass., Yarmouth & coastwise. 1900. Yarmouth | W. M. Weatherstoon. | 1 | 11 | 26 | | | | 11 11 |
| Yarmouth | | | Nov. | 27 | 306.91 | 32 | 48 | Screw, pass., Yarmouth & coastwise. |
| Yarmouth | | | 196 | 90. | | | | |
| Halifax | | 1 | 1 | | 1 451.00 | 101 | 10 | £ |
| Cacouna. May Jueen 35 | | | | 27 | 1,401 92 | | | _ |
| May Queen 35 4 35 92 7 88 "tug, fr'g't, & p., Pictou & coast. Pass., Pictou & coastwise. Arcadia 40 4 11 57 5 96 pass., Pictou & coastwise. Bessie 20 4 10 45 5 80 "pass., Pictou & coastwise. 1899. 1899. 10 90 "pass., Minor waters of N. S. Diamond May 5 22 65 6 84 Screw, tug, Pictou & coastwise. Shannon. 5 75 11 11 00 Paddle, ferry, Halifax & Dartmouth. Nereus 9 16 39 6 28 Screw, tug, Pictou & coastwise. Anita 11 26 50 7 16 7 16 7 16 7 16 7 16 7 16 7 16 7 16 7 16 7 16 7 16 7 16 7 16 7 16 7 16 7 16 7 16 7 16 7 16 7 16 7 16 7 16 7 16 7 16 7 16 7 16 7 16 7 16 7 16 7 16 7 16 7 16 7 16 7 16 7 16 </td <td>Halifax</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | Halifax | | | | | | | |
| Marion 40 4 11 57 5 96 " pass., Pictou Harbour. Bessie 20 4 10 45 5 80 " pass., Minor waters of N. S. Mayflower 70 July 1 392 05 39 36 Twin-screw, p., Pictou & coastwise. Diamond May 5 22 65 6 84 Screw, tug, Pictou & coastwise. Shannon " 5 75 11 11 00 " Paddle, ferry, Halifax & Dartmouth. Nereus " 9 16 39 6 28 Screw, yacht, Halifax & Dartmouth. Nereus " 11 26 50 7 16 fish boat " " " Petrel 25 12 6 36 5 48 " ferry, Halifax & Dartmouth. Perey Cann 35 18 80 06 11 40 pass., Pictou " Petrel 25 12 6 36 5 48 " ferry, Halifax & Dartmouth. Perey Cann 35 18 80 06 11 40 pass., Pictou " Ulala " 1 13 70 6 12 yacht, Halifax | | | | | | | | tug, fr'g't, & v., Pictou & coast |
| Marion 40 4 11 57 5 96 " pass., Pictou Harbour. Bessie 20 4 10 45 5 80 " pass., Minor waters of N. S. Mayflower 70 July 1 392 05 39 36 Twin-screw, p., Pictou & coastwise. Diamond May 5 22 65 6 84 Screw, tug, Pictou & coastwise. Shannon " 5 75 11 11 00 " Paddle, ferry, Halifax & Dartmouth. Nereus " 9 16 39 6 28 Screw, yacht, Halifax & Dartmouth. Nereus " 11 26 50 7 16 fish boat " " " Petrel 25 12 6 36 5 48 " ferry, Halifax & Dartmouth. Perey Cann 35 18 80 06 11 40 pass., Pictou " Petrel 25 12 6 36 5 48 " ferry, Halifax & Dartmouth. Perey Cann 35 18 80 06 11 40 pass., Pictou " Ulala " 1 13 70 6 12 yacht, Halifax | | | | | | | | pass., Pictou & coastwise. |
| Bessie | | | | | 11.57 | 5 | 96 | pass., Pictou Harbour. |
| Mayflower | | | ., | 4 | 10.45 | 5 | 80 | pass., Minor waters of N. S. |
| Mayflower | | | 18 | 99. | | | | |
| Diamond | 35 . 0 | 70 | ł_ | | 900.05 | 20 | 96 | Turin serow n Pietou & coastwise |
| Diamond | Mayflower | 10 | 1 | | 392 05 | 39 | - 30 | I win-screw, p., I felou & coastwise. |
| Shannon | | í | 19 | 00. | | | | |
| Shannon | Diamond | | May | 5 | 22.65 | 6 | 84 | Screw, tug, Pictou & coastwise. |
| Dartmouth 300 " 9. 311 23 32 88 Paddle, ferry, Halifax & Dartmouth. Nereus " 9. 16 39 6 28 Screw, yacht, Halifax & coastwise. Anita " 11. 26 50 7 16 5 48 " fish boat " jass., Halifax & coastwise. " pass., Halifax Loadt " jass., Pictou " jass., Sydney & coastwise. " jass., Sydney & Bras d'Or Lake " jass., Sydney & Bras d'Or Lake " jass., Sydney & coastwise. " jass., Malgrave " jass., Sydney & fish boat, Sydney | Shannon | | 11 | 5 | 75.11 | | | 11 11 |
| Antta | Dontmouth | 300 | i | | | | | Paddle, ferry, Halifax & Dartmouth. |
| Antta | Nereus | | 11 | | | | | Screw, yacht, Halifax & coastwise. |
| Percy Cann | Anita | | 1 11 | | | | | |
| Lunenburg | Petrei | 20 | 11 | | | | | |
| Ulala. " 1 13 70 6 12 might " yacht, Halfax might Peerless 200 23. 94 27 12 52 " pass., Sydney & Bras d'Or Lake. Hygeia. 75 24. 57 69 9 64 " tug, Sydney & coastwise. C. M. Winch 1899. 12 04 " tug, Sydney & coastwise. Weymouth 150 Dec. 31. 153 93 20 32 " pass. " " Merrimac. " 25. 85 80 11 80 " " water boat, Sydney Harbour. Marion. 25. 478 49 46 24 24 Marion. 25. 18 63 6 44 Screw, tug, Sydney Harbour. Blue Hill. 140 26. 195 83 23 68 Twin-screw, p., Sydney & Mulgrave. Vega. 90 26. 165 55 21 28 Screw, pass., Mulgrave & coastwise. Robbie Burns. 200 June 7. 88 95 12 12 Twin-screw, p., Sydney & Brashour. Highland Mary 160 " 7. 73 73 10 92 Twin-screw, lighter & pass., Halifax Harbour. Gømbrinus | | | | | | | | |
| Peerless 200 23. 94°27 12 52 pass., Sydney&Brasd Of Lake. | Illala | 10 | 1 | | | | | vacht, Halfax |
| Hygeia | Peerless | 200 | | | | | | |
| C. M. Winch | Hygeia | 75 | ,, | 24 | 57.69 | | | " " |
| Weymouth 150 Dec. 31. 153 93 20 32 pass. " Gladiator. May 24. 70 40 10 60 " tug " " " Merrimac. " 25. 85 80 11 80 " water boat, Sydney Harbour. Daisy " 25. 10 74 5 88 " water boat, Sydney Harbour. Marion. 400 25. 478 49 46 24 Paddle, p. Sydney & Strait of Canso. Zaidee " 25. 18 63 6 44 Screw, tug, Sydney Harbour. Blue Hill. 140 " 26. 195 83 23 68 Twin-screw, p., Sydney & Mulgrave. Screw, pass., Mulgrave & coastwise. Screw, pass., Mulgrave & coastwise. Screw, pass., Mulgrave & Sydney. Mary O. Dell. " 27. 28 92 7 32 Robbie Burns 200 June 7. 88 95 12 12 Highland Mary 160 " 7. 73 73 10 92 Gømbrinus May 1. 28 36 7 24 A. C. Whitney. 150 June 1. 62 67 10 04 | C. M. Winch | | " | 24 | 87.72 | 12 | 04 | u tug, Sydney & coastwise. |
| Cladiator | | | 18 | 99. | | | | |
| Cladiator | Weymouth | 150 | Dec | 31 | 153 93 | 20 | 32 | Dass. " |
| Gladiator. May 24. 70 40 10 60 " tug " " Merrimac. " 25. 85 80 11 80 " water boat, Sydney Harbour. Daisy 25. 478 49 46 24 Paddle, p., Sydney & Strait of Canso. Marion. 400 25. 478 49 46 24 Paddle, p., Sydney & Strait of Canso. Zaidee " 25. 18 63 6 44 Screw, tug, Sydney Harbour. Blue Hill 140 26. 195 83 23 68 Twin-screw, p., Sydney & Mulgrave. John L. Cann. 125 26. 165 55 21 28 Screw, pass., Mulgrave & coastwise. Vega. 90 26. 132 22 18 56 pass., Mulgrave & Sydney. Mary O. Dell. " 27. 28 92 7 32 " tug & fish boat, Mulgrave and coastwise. Robbie Burns 200 June 7. 88 95 12 12 Twin-screw, lighter & pass., Halifax Harbour. Highland Mary 160 " 7. 73 73 10 92 Screw, pass., Mulgrave & Sydney. Gømbrinus May 1. 28 36 7 24 Screw | weymouth | 100 | 1 | | 100 30 | | . 02 | |
| Merrimac. " 25. 85.80 11.80 " water boat, Sydney Harbour. Daisy " 25. 478.49 46.24 24 Paddle, p., Sydney & Strait of Canso. Marion. 200. 125. 18.63 6.44 Screw, tug, Sydney Harbour. Paddle, p., Sydney & Strait of Canso. Screw, tug, Sydney Harbour. Screw, tug, Sydney Harbour. Blue Hill. 140.26. 195.83 23.68 Twin-screw, p., Sydney & Mulgrave. John L. Cann. 125. 26. 165.55 21.28 Screw, pass., Mulgrave & Coastwise. Vega. 90. 26. 132.22 18.56 " pass., Mulgrave & Sydney." Mary O. Dell. " 27. 28.92 7.32 " tug & fish boat, Mulgrave and coastwise. Robbie Burns. 200 June 7. 88.95 12.12 Twin-screw, lighter & pass., Halifax Harbour. Highland Mary 160. " 7. 73.73 10.92 Gambrinus May 1. 28.36 7.24 A. C. Whitney. 150 June 1. 62.67 10.04 Turn Strew, lighter, Halifax Harbour. | | | 19 | 00. | į | 1 | | |
| Daisy " 25. 10.74 5.88 (Marion.) water boat, Sydney Harbour. Marion. 400 " 25. 478.49 46.24 (Paddle, p., Sydney & Strait of Canso.) Zaidee. " 25. 18.63 (Gamerical Street) 6.44 (Paddle, p., Sydney & Strait of Canso.) Screw, tug, Sydney Harbour. Screw, tug, Sydney Harbour. Twin-screw, p., Sydney & Mulgrave. & Coastwise. Vega. 90 " 26. 132.22 (Paddle, p., Sydney Harbour.) Wary O. Dell. " 27. 28.92 (Paddle, p., Sydney Harbour.] Robbie Burns. 200 June 7. 88.95 (Paddle, p., Sydney Harbour.] " Wilgrave & Coastwise.] Robbie Burns. 200 June 7. 88.95 (Paddle, p., Sydney Harbour.] " Paddle, p., Sydney Harbour.] " Wilgrave & Coastwise.] Robbie Burns. 200 June 7. 88.95 (Paddle, p., Sydney Harbour.] " Lag & fish boat, Mulgrave & Coastwise.] Highland Mary. 160 (Paddle, p., Sydney Harbour.] " Twin-screw, p., Sydney Harbour.] Highland Mary. 160 (Paddle, p., Sydney Harbour.] " Twin-screw, p., Sydney Harbour.] Gambrinus. May 1. 28.36 (Paddle, p., Sydney Harbour.] " Screw, lighter & pass., Halifax Harbour.] A. C. Whitney. 150 June 1. 62.67 (Paddle, p., Sydney Harbour.] " Screw, tug, Sydney Harbour.] | | | | | | | | |
| Daisy " 25. 10.74 5 88 " water boat, Sydney Harbour. Marion. 400 " 25. 478*49 46 24 24 Paddle, p., Sydney & Strait of Canso. Zaidee " 25. 18*63 6 44 Screw, tug, Sydney Harbour. Blue Hill 140 26. 195:83 23 68 Twin-screw, p., Sydney & Mulgrave. John L. Cann. 125 26. 165:55 21 28 Screw, pass., Mulgrave & coastwise. Vega. 90 26. 132:22 18 56 " pass., Mulgrave & Sydney. Mary O. Dell. " 27. 28*92 7 32 " tug & fish boat, Mulgrave and coastwise. Robbie Burns 200 June 7. 88*95 12 12 Twin-screw, lighter & pass., Halifax Harbour. Highland Mary 160 " 7. 73*73 10 92 Gømbrinus May 1. 28*36 7 24 A. C. Whitney. 150 June 1. 62*67 10 04 A. C. Whitney. 150 June 1. 62*67 10 04 | Merrimac | 1 | " | | | | | |
| Zaidee 25. 18 63 6 44 Screw, tug, Sydney Harbour. Blue Hill 140 26. 195 83 23 68 Twin-screw, p., Sydney & Mulgrave. John L. Cann. 125 26. 165 55 21 28 Screw, pass., Mulgrave & coastwise. Vega. 90 26. 132 22 18 56 pass., Mulgrave & Sydney. Mary O. Dell. 27. 28 92 7 32 tug & fish boat, Mulgrave and coastwise. Robbie Burns 200 June 7. 88 95 12 12 Twin-screw, lighter & pass., Halifax Harbour. Highland Mary 160 7. 73 73 10 92 To win-screw, lighter, Halifax Harbour. A. C. Whitney. 150 June 1. 62 67 10 04 To win-screw, lighter, Halifax Harbour. | Daisy | | - 11 | | | | | Paddle n Sydney & Strait of C |
| Blue Hill | | | | | | | | Screw. tug. Sydney & Strate of Canso. |
| John L. Cann. 125 26. 165 55 21 28 Screw, pass., Mulgrave & coastwise. Vega. 90 26. 132 22 18 56 pass., Mulgrave & Sydney. Mary O. Dell. 27. 28 92 7 32 ug & fish boat, Mulgrave and coastwise. Robbie Burns. 200 June 7. 88 95 12 12 Twin-screw, lighter & pass., Halifax Harbour. Highland Mary. 160 7. 73 73 10 92 Gambrinus May 1. 28 36 7 24 A. C. Whitney. 150 June 1. 62 67 10 04 Turn Carrey, lighter, Halifax Harbour. ug & pass., Halifax Harbour. | | | | 26 | | | | Twin-screw, p., Sydney & Mulgrave. |
| Vega. 90 26. 132·22 18 56 pass., Mulgrave & Sydney. Mary O. Dell. 27. 28·92 7 32 tug & fish boat, Mulgrave and coastwise. Robbie Burns. 200 June 7. 88·95 12 12 Twin-screw, lighter & pass., Halifax Harbour. Highland Mary 160 7. 73·73 10 92 Screw, lighter, Halifax Harbour. A. C. Whitney. 150 June 1. 62·67 10 04 Turn tug & pass., Halifax Harbour. | | | | 26. | | 21 | 28 | Screw, pass., Mulgrave & coastwise. |
| Mary O. Dell. " 27. 28 92 7 32 " tug & fish boat, Mulgrave and coastwise. Robbie Burns. 200 June 7. 88 95 12 12 Twin-screw, lighter & pass., Halifax Harbour. Highland Mary. 160 " 7. 73 73 10 92 Gømbrinus May 1. 28 36 7 24 A. C. Whitney. 150 June 1. 62 67 10 04 Turn tug & pass. Halifax Harbour. Turn tug & pass. Halifax Harbour. | | | | | | | | pass., Mulgrave & Sydney. |
| Robbie Burns. 200 June 7. 88 95 12 12 Twin-screw, lighter & pass., Halifax Harbour. Highland Mary. 160 7. 73 73 10 92 Harbour. Harbour. Gambrinus May 1. 28 36 7 24 Screw, lighter, Halifax Harbour. A. C. Whitney. 150 June 1. 62 67 10 04 Tutus & pass., Halifax Harbour. | | | ı | | | | | tug & fish boat, Mulgrave and |
| Highland Mary 160 7. 73 73 10 92 8 36 7 24 Screw, lighter, Halifax Harbour. A. C. Whitney 150 June 1 62 67 10 04 7 tug & pass., Halifax Harbour. | | 1 . | 1 | _ | 00 | | | |
| Highland Mary 160 7. 73.73 10 92 | Robbie Burns | 200 | June | 7 | 88.95 | 12 | 12 | |
| Gembrinus May 1 28 36 7 24 Screw, lighter, Halifax Harbour. A. C. Whitney 150 June 1 62 67 10 04 T tug & pass., Halifax Harbour. | Highland Many | 100 | | 7 | 72.72 | 10 | 92 | n n n |
| A. C. Whitney 150 June 1. 62 67 10 04 tug & pass., Halifax Harbour. | | 1 | | | | | | Screw, lighter, Halifax Harbour |
| 11. Of 11 money 11. | | | | | | | | |
| | Pastime | | | | | | | |

STEAM Vessels Inspected, &c.—Nova Scotia Division—Concluded.

BOILERS AND MACHINERY-Concluded.

| Name of Versel. | Number of Passen- gers Allowed. | Date Certificate Expires. | Gross Tons. | Tonnage Dues and Inspec- tion Fees Paid. | Class of Vessel and where employed. |
|-----------------|------------------------------------------|--------------------------------------|-----------------------------------------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Juno | 30 | " 16 " 17 " 17 " 17 " 19 | 9·29 1,694·60 26·69 31·38 44·51 8·07 32·21 84·73 | \$ cts. 5 72 143 52 7 08 * 14 96 8 60 5 64 7 56 11 80 | Screw, ferry, Yarmouth & Bay View. pass., Yarmouth & Boston. tug, Yarmouth & coastwise. yacht tug & p. " fish boat " ferry, Annapolis River. pass., Canning & coastwise. |
| Evangeline | 160 | 21 | | 11 32 | Twin-screw, pass., Kingsport & coast. Screw, freight, Hantsport & coastwise. |
| Acadia | | Nov. 1 | 74·21 21,673·52 | 10 92 2,322 56 | " pass., Halifax & Lunenburg. |

^{*} Paid for 2 years.

JOHN P. ESDAILE. Steamboat Inspector, Halifax, N.S.

Steam Vessels Inspected in Canada but Registered elsewhere, for the Year ended June 30, 1899.

NOVA SCOTIA DIVISION.

BOILERS AND MACHINERY.

| Name of Vessel. | Number of Passen- gers Allowed. | Date Certificat Expires. | e Gross Tons. | Tonnage Dues and Inspection Fees Paid. | Class of Vessel and where employed. |
|-------------------------------------------------------------------------------------|--------------------------------------------------|------------------------------------------------|--------------------------------------------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------|
| | | 1899. | | \$ cts. | |
| Express Bruce Chebucto Delta City of Ghent. Prince Edward Beta Ulunda Dahome Portia | 300 232 15 70 400 75 40 50 | Aug. 12. 15. 30. Sept. 8. 14. | . 1,154 59 578 48 873 21 198 64 1,413 74 1,086 67 1,717 09 2,469 74 | 100 40 54 24 77 84 23 92 121 12 | pass. and freight, foreign. |
| Erna . Grand Lake | 100 50 15 350 109 60 840 60 | " 21. " 24. May 13. " 17. June 14. | . 895 89 . 1,826 54 . 211 91 . 1,033 65 . 1,707 70 . 1,838 59 . 5,017 00 | 154 16 24 96 90 72 144 64 155 12 409 36 68 72 | " tug & pass., Halifax & coastwise. Paddle, pass., " " |

JOHN P. ESDAILE, Steamboat Inspector, Halifax, N.S.

STEAM Vessels not Inspected for the Year ended June 30, 1899.

NOVA SCOTIA DIVISION.

BOILERS AND MACHINERY.

| Name of Vessel. | Gross Tonnage. | Registered Tonnage. | Remarks. Why not Inspected and Class of Vessel | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|---------------------------------------------------|--|--|--|--|
| Goliah Rescue Tusket Alida Scotia Vesta Gem Havana Maple Leaf Arrow Pinafore Meadow Flower Volunda City of St. John Elsie Eldon Lion Victor Star | 146 · 83 124 · 09 3 · 04 64 · 18 41 · 58 9 · 21 4 · 69 470 · 18 129 · 06 6 · 56 6 · 56 6 · 56 6 · 29 · 80 709 · 12 22 · 14 37 · 91 19 · 82 9 · 62 6 · 07 | 99·85 84·92 2.00 29·52 28·27 5·40 2·12 245·86 81·31 7·92 14·67 4·46 13·96 446·75 15·06 21·25 13·48 6·41 4·13 | Laid up tug. """"""""""""""""""""""""""""""""""" | | | | |
| Total | 1,869 · 78 | 1,127 · 34 | | | | | |

JOHN P. ESDAILE, Steamboat Inspector, Halifax, N.S

STEAM Vessels Inspected for the year ended June 30, 1899.

NOVA SCOTIA DIVISION.

HULL INSPECTION.

| | | | | | 1 |
|----------------------|------------------------------------------|------------------------------|----------------------------|----------------------------------------|------------------------------------------------------------------------|
| Name of Vessel. | Number of Passen- gers Allowed. | Date Certifica Expires | | Tonnage Dues and Inspection Fees Paid. | Class of Vessel and where employed |
| | | 1899. | | \$ cts. | |
| Highland Mary | 160 | June 20 | 73 73 | 10 92 | Twin-screw, barge, Halifax Harbour. |
| Ida Lue | | July 8 | 44.51 | 8 60 | Screw, pass., Yarmouth & coast. |
| Robbie Burns | . 200 | | | | Twin-screw, pass., Halifax Harbour. |
| Yuba. | | | | | Screw, ferry, Barrington Passage. pass., Liverpool & Port Mouton. |
| St. Michael | | | | 6 52 | pass., Lunenburg and South. |
| Carrie | . 40 | ,, 19 | | 6 20 | pass., Chester and Mahone Bay. |
| Trusty | . 150 | | | 1 % T * 2 | pass., Bridgewater & coastwise. |
| Mulgrave | | | 484.86 | | Govt., screw, ferry, Strait of Canso. Screw, ferry, Lennox Passage. |
| Lennox Malcom Cann | | | | 24 96 | pass., Mulgrave and coast. |
| L. Boyer | 100 | 24 | | | " excursion, Halifax Harbour. |
| Bessie | . 20 | | 10 45 12 24 | | pass., Minor waters N.S.&C.B |
| Commodore | | Aug. 26 Sept. 9 | 35 40 | | " " Halifax Harbour. |
| Mascotte | | Oct. 22 | | | " Moser's River&Harbour. |
| Wilfred C | . 60 | 27 | | | " Halifax & coast. |
| Bridgewater | | | 207 79 150 63 | | Paddle, pass., Halifax & Dartmouth |
| Mic-Mac | | | 80 09 | | Screw, pass., Yarmouth & coastwise |
| La Tour | | | 154 43 | 20 32 | 0 11 11 |
| Halifax | | | 338 42 | 35 04 | Paddle, ferry, Halifax & Dartmouth |
| | | 1900. | | | |
| | | Ì | | | a tilea li fermina |
| Newfoundland | | | | | Screw, freight, Canadian & foreign. |
| Gertrude M Louisburg | Nil 40 | Mar. 16 | 1,815 60 | | |
| Cape Breton | Nil | April 1 | 1,764 19 | 146 12 | 0 0 0 |
| Coban | .1 37 | 1 11 28 | 1,003 30 | | D' to a la constraine |
| St. Olaf | . 150 | | 305 27 1,306 3 5 | | C 1: & formion |
| Bonavista Avon | | | 64.66 | | |
| Yarmouth | | | 1,451 92 | | |
| | | 1899. | | | |
| Alpha | . 20 | Nov. 26 | 306 91 | 32 48 | " Yarmouth & coastwise. |
| | | 1900. | | | |
| Halifax | 500 | May : | 2 1,738 45 | 147 04 | " Canadian & foreign. |
| Cacouna | Nil. | | 2. 1,450.78 | 3 121 08 | " freight. " |
| Rimouski | 40 | | 124.70 | | |
| Arcadia | | | 4 61·64 4 10·45 | | 1 |
| Bessie | 40 | | 11.57 | | " " Pictou Harbour. |
| Mayflower | . 70 | | 392 0 | 39 36 | Twin-screw, pass., Pictou & coastwise. |
| May Queen | . 35 | | 35.9 | | |
| Dartmouth | | | 2 311·23 7 6·36 | 32 88 | Screw, ferry, Richmond & " |
| Petrel | | | 80.00 | | pass., Halifax and coast. |
| Peerless | 200 | | 94.2 | | Twin-screw, p., Sydney & Bras d'Or Lakes. |
| Weymouth | . 150 | . 2 | 153.93 | | Screw, pass., Sydney and coast. |
| Hygiea | . 7 | 5 " 2 | 57:69 | 9 64 | ii ferry, Sydney & North Sydney |
| Harlaw | | | 5 451 36 5 478 49 | | |
| Marion. Blue Hill | | | 5 195.8 | | Twin-screw, p., Sydney & Mulgrave. |
| Vega | . 90 | 0 2 | 6 132 2 | 2 18 56 | Screw, pass., Mulgrave and Sydney. |
| John L. Cann | . 12 | 5! "2 | 6 165 5 | 5 21 28 | u u coast. |

STEAM Vessels Inspected, &c.—Nova Scotia Division—Continued.

HULL INSPECTION-Continued.

| Name of Vessel. | Number of Passen- gers Allowed. | Date Certificat Expires. | Gross Tons. | Tonnage Dues and Inspec- tion Fees Paid. | Class of Vessel and where employed. | |
|-------------------------------|------------------------------------------|--------------------------------|---------------------------------|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| | | 1906. | | \$ cts. | | |
| Highland Mary Robbie Burns | 160 260 | June 7. | | 10 92 12 12 | Twin-screw, pass Halifax Harbour. | |
| Lunenburg Pastime | 40 160 | * Sept. 1 | 256·55 67·71 | | Screw, pass., Pictou and coastwise. Twin-screw, pass., Halifax Harbour. | |
| Ida Lue | 30 40 40 40 160 160 | June 17. 17. 19. 19. 20. | 9·20 32·46 32·21 84·73 | 8 60 5 72 7 56 7 56 11 80 11 32 | Screw, pass., Yarmouth & coastwise. ferry, Yarmouth & Bay View. pass., Digby Basin. ferry, Annapolis River. pass., Canning and coast. Twin-screw, pass., Kingsport & coast. | |
| Acadia | 150 | Oct. 1. | 74.21 | 10 92 | Screw, pass., Halifax and Chester. | |
| Eldon | | May 24. June 28. | 6.07 | 5 48 | " Strait of Canso. " ferry, Wallace River. Screw, excursion, Halifax Harbour. | |

^{*} Closing navigation 1899.

S. R. HILL, Inspector of Hulls and Equipment.

Steam Vessels Inspected in Canada but Registered elsewhere, for the Year ended June 30, 1899.

NOVA SCOTIA DIVISION.

HULL INSPECTION.

| | Number of Passen- | Date | | Gross | Tonnage | |
|--------------------------------|----------------------|--------------------|------|------------|-------------------------------------|------------------------------------------------------|
| Name of Vessel. | gers Allowed. | Certific Expire | | Tons. | Dues and Inspection Fees Paid | n Class of Vessel and where employed |
| | ĺ | 1899. | | | \$ et | 3. |
| Express | 300 | July | 8 | 550 23 | 52 (| Paddle, passenger, Yarmouth & Coast. |
| Bruce | 300 | | 0 | 1,154 59 | | O Screw, passenger, Nova Scotia and Newfoundland. |
| Chebucto | | Aug. 1 | | 578:48 | | 4 Twin-screw, ferry, Halifax & Dartm'th. |
| Delta | 15 | | 5 | 873 · 21 | 1 " | 4 Screw, pass. and frt., Canadian and foreign. |
| City of Ghent Prince Edward | 70 | | 3 | 198:64 | 23 9 | 2 Screw, pass. and frt., Halifax and coast. |
| rince Edward | 400 | Sept. | ۱۰۰۰ | 1,413.74 | 121 1 | 2 Twin-screw, passenger, Yarmouth and coastwise. |
| Beata | 75 | n 10 | 0, . | 1,086 67 | 94 9 | 6 Screw, passenger, Canadian & foreign. |
| Dahome | | Oct. 2 | 5 | 2,469.74 | 205 6 | OScrew, passenger & freight, Canadian and foreign. |
| Ulunda | 40 | Sept. 7 | 7 | 1,717 · 09 | | 6 Screw, passenger & freight, Canadian and foreign. |
| Portia | 90 | Nov. 10 | 6 | 1,156 40 | 100 4 | 8 Screw, passenger & freight, Canadian and foreign. |
| | | 1900. | | | | |
| Erna | 30 | Jan. | 6 | 1,530 · 11 | 130 4 | Screw, passenger & freight, Canadian and foreign. |
| Grand Lake | 100 | April 1 | | 895 89 | | 8 Screw, passenger, Canadian & foreign. |
| Taymouth Castle | 50 | | 0 | 1,826 54 | | |
| City of Monticello | | | 1 | 1,033 65 | | 2 Paddle, pass., Halifax and coastwise. |
| Douglas H. Thomas | 15 | | 1 | 211 91 | 24 9 | 6 Screw, passenger, Halifax and coast. |
| Silvia | 109 | May 1 | 3 | 1,707.70 | 144 6 | 4 Screw, passenger & freight, Canadian and foreign. |
| Duart Castle | 60 | 16 | 6 | 1,838 · 59 | 155 1 | 2 Screw, passenger & freight, Canadian and foreign. |
| La Grand Duchesse | 840 | June 1 | 4 | 5,017 00 | 409 3 | Twin-screw, passenger, Canadian and foreign. |
| Pro Patria | 60 | ,, 10 | 0 | 759.01 | 68 7 | 2 Screw, passenger, Halifax & coastwise. |

S. R. HILL, Inspector of Hulls and Equipment.

Steam Vessels not Inspected for the Year ended June 30, 1899. NOVA SCOTIA DIVISION.

HULL INSPECTION.

| Name of Vessel. | Gross Tonnage. | Register'd Tonnage. | Remarks. Why not Inspected and Class of Vessel. |
|--------------------------------------------------|----------------------------------------------------|---------------------------|--------------------------------------------------|
| Havana City of St. John Maple Leaf Boston. Total | 470 18 709 12 129 06 1,694 50 3,002 86 | 446 75 81 31 733 77 | Not ready, undergoing repairs. |

STEAM Vessels Inspected for the Year ended June 30, 1899.

NEW BRUNSWICK AND P. E. ISLAND DIVISION.

BOILERS AND MACHINERY.

| Name of Vessel. | Number of Passen- gers Allowed. | Da Certif Expi | icate | Gross Tons. | Tonnage Dues and Inspection Fees Paid. | Class of Vessel and where employed |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | 189 | 99. | | 8 ets. | |
| Waring | | July | 4 | 28.74 | | Screw, tug, St. John. |
| Calluna | · · · • · · · · · | 11 | 9 | $\frac{22.26}{28.92}$ | 6 76 | and fish boat, Richibuct |
| Mary Odell Frederick A | | " | 9 9 | 28 92 31 11 | 7 32 7 48 | " " " |
| St. Kilda | 1 | " | 11 | 55 64 | 9 48 | Paddle, Miramichi. |
| | | | 16. | 189 05 | 23 12 | Screw, tug, coasting. |
| Amanda Green | | " | 25. | 19 63 | 6 60 | St. John. |
| Dream | | | 29 | 44.51 | | Screw, yacht " |
| Arbutus | | | 1 | 46.76 | . 8 76 | passenger, St. Croix. |
| Bessie Ardella | | 11 | 2 | 17:44 | 6 36 | " fish boat " |
| Calla | 30 | " | 2 | 9.79 | 5 80 | yacht " |
| Calla | 1 | | 3 | 19:66 | 6 60 | " " " |
| Fipsv | i | | 11 | 16 70 | 6 36 | tug, Charlottetown. |
| Flash | | | 11 | 5:59 | 5 44 | " yacht, St. John. |
| Cricket | 1 | | 22. | 4:85 | 5 40 | " " " |
| Lotes | | " | 22 | 5·00 19·93 | 5 40 6 60 | n u u u u u u u u u u u u u u u u u u u |
| Delta | 40 | " | 25 | 1,001 93 | | Paddle "St. John. |
| Victoria | 400 | Sant | 30 1 | 28 83 | 6 92 | Screw, tug, Northport. |
| Wands | | Dept. | 1 | 25.10 | 7 00 | Port Floin |
| Western Extension | 280 | " | 7 | 424 · 89 | 41 92 | Paddle, ferry, St. John. Screw, tug, Chiputincook Lake. Stern-wheel, passenger, St. John. Screw, tug, St. John. |
| Western Extension Vacuna | 200 | | 20 | 9.52 | 5 80 | Screw, tug. Chiputincook Lake. |
| Aberdeen. | 400 | | 21 | 243 86 | 27 52 | Stern-wheel, passenger, St. John. |
| Kingsville | | Nov. | 2 | 36.59 | 7 88 | Screw, tug, St. John. |
| Aberdeen | | 11 | 18 | 367.50 | 34 36 | reight, Charlottetown. Paddle, ferry, St. John. |
| Ouangondy | 208 | ** | 7 | 294.75 | 31 60 | Paddle, ferry, St. John. |
| | | 190 | 0. | | | |
| Captain | : | Feb. | 20 | 68:43 | | Screw, tug " |
| NereidE. RossPrince Rupert | 40 | *** | 21. | 107 87 | 16 64 | n pass. |
| Nereid | | Mar. | 6 | 30.03 | 7 40 | u tug u |
| E. Ross | 40 | 1 | 7 | 29:63 | 7 40 | De 111 |
| Prince Rupert | 850 | " | 14 . | | 100 64 | Paddle, pass. |
| Maggie M | 40 | " | 17 | 65.78 | 10 28 | Screw, tug, St. John. |
| | | | | | 10.04 | |
| W. H. Murray | 950 | | $\frac{17}{94}$ | 72:55 1.955:46 | 10 84 | Tuin-seraw passanger P F I |
| Northumberland | 350 | | 24 | 1,255 46 | 100 40 | Twin-screw, passenger, P.E.I. |
| Northumberland | 350 | | 24 | $1,255 \cdot 46$ $541 \cdot 79$ | 100 40 51 36 | Screw, passenger, P.E.I. |
| Northumberland | 350 | | 24 | 1,255 46 541 79 379 96 | 100 40 51 36 38 40 | Screw, passenger, P.E.I. Paddle " " |
| Northumberland | 350 | | 24 | 1,255 46 541 79 379 96 29 32 | 100 40 51 36 38 40 7 32 | Screw, passenger, P.E.I. |
| Northumberland | 350 350 300 | April | 24 | 1,255 46 541 79 379 96 29 32 40 11 10 39 | 100 40 51 36 38 40 7 32 8 20 5 80 | Screw, passenger, P.E.I. Paddle "" Screw, tug, St. John. |
| Northumberland | 350 350 300 | April | 24 25 25 1 3 12 | 1,255:46 541:79 379:96 29:32 40:11 10:39 87:11 | 100 40 51 36 38 40 7 32 8 20 5 80 11 96 | Screw, passenger, P.E.I. Paddle "Screw, tug, St. John." |
| Northumberland | 350 350 300 | April | 24 25 25 1 3 12 12 12 | 1,255 46 541 79 379 96 29 32 40 11 10 39 87 11 232 73 | 100 40 51 36 38 40 7 32 8 20 5 80 11 96 26 56 | Screw, passenger, P.E.I. Paddle " " Screw, tug, St. John. " " " " Stern-wheel, passenger, St. John. |
| Northumberland | 350 350 300 | April | 24 25 25 3 12 12 12 | 1,255 46 541 79 379 96 29 32 40 11 10 39 87 11 232 73 158 20 | 100 40 51 36 38 40 7 32 8 20 5 80 11 96 26 56 17 64 | Screw, passenger, P.E.I. Paddle "Screw, tug, St. John." |
| Northumberland Princess Jacques Cartier Leader Mildred Fred Glasier Hercules Springfield Admiral Hero | 350 350 300 | April | 24 25 1 3 12 12 12 12 | 1,255 46 541 79 379 96 29 32 40 11 10 39 87 11 232 73 158 20 127 63 | 100 40 51 36 38 40 7 32 8 20 5 80 11 96 26 56 17 64 15 24 | Screw, passenger, P.E.I. Paddle " Screw, tug, St. John. " " Stern-wheel, passenger, St. John. Paddle, tug, St. John. |
| Northumberland Princess Jacques Cartier Leader Mildred Fred Glasier Hercules Springfield Admiral Hero Filly Glasier | 350 350 300 | April | 24 25 25 1 12 12 12 12 12 12 12 | 1,255 46 541 79 379 96 29 32 40 11 10 39 87 11 232 73 158 20 127 63 209 31 | 100 40 51 36 38 40 7 32 8 20 5 80 11 96 26 56 17 64 15 24 21 72 | Screw, passenger, P.E.I. Paddle " Screw, tug, St. John. " " Stern-wheel, passenger, St. John. Paddle, tug, St. John. |
| Northumberland Princess Jacques Cartier Leader Mildred Fred Glasier Hercules Springfield Admiral Hero Filly Glasier Sea King | 350 350 300 | April | 24 25 25 1 3 12 12 12 12 12 12 12 | 1,255 · 46 541 · 79 379 · 96 29 · 32 40 · 11 10 · 39 87 · 11 232 · 73 158 · 20 127 · 63 209 · 31 128 · 63 | 100 40 51 36 38 40 7 32 8 20 5 80 11 96 26 56 17 64 15 24 21 72 15 32 | Screw, passenger, P.E.I. Paddle " " Screw, tug, St. John. " " Stern-wheel, passenger, St. John. Paddle, tug, St. John. " " Screw, tug " |
| Northumberland Princess Jacques Cartier Leader Mildred Fred Glasier Hercules Springfield Admiral Hero Tilly Glasier Sea King G. K. King | 350 350 300 | April | 24 25 25 1 3 12 12 12 12 12 12 12 12 12 | 1,255·46 541·79 379·96 29·32 40·11 10·39 87·11 232·73 158·20 127·63 209·31 128·63 45·48 | 100 40 51 36 38 40 7 32 8 20 5 80 11 96 26 56 17 64 15 24 21 72 15 32 8 60 | Screw, passenger, P.E.I. Paddle " Screw, tug, St. John. " " Stern-wheel, passenger, St. John. Paddle, tug, St. John. |
| Northumberland Princess Jacques Cartier Leader Mildred Fred Glasier Heroules Springfield Adduiral Hero Filly Glasier Sea King G. K. King | 350 350 300 | April | 24 25 1 3 12 12 12 12 12 12 12 12 13 13 14 15 16 17 18 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 | 1,255·46 541·79 379·96 29·32 40·11 10·39 87·11 232·73 209·31 128·63 209·31 128·63 45·48 67·97 | 100 40 51 36 38 40 7 32 8 20 5 80 11 96 26 56 17 64 15 24 21 72 15 32 8 60 10 44 | Screw, passenger, P.E.I. Paddle " Screw, tug, St. John. " Stern-wheel, passenger, St. John. Paddle, tug, St. John. " " Screw, tug " " " " " " " " " " " " " " " " " " " |
| Northumberland Princess Jacques Cartier Leader Mildred Fred Glasier Heroules Springfield Adduiral Hero Filly Glasier Sea King G. K. King | 350 350 300 | April | 24 25 1 12 12 12 12 12 12 12 12 13 13 13 13 13 13 14 15 16 17 17 18 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19. | 1,255 46 541 79 379 96 29 32 40 11 10 39 87 11 232 73 158 20 127 63 209 31 128 63 45 48 67 97 234 52 | 100 40 51 36 38 40 7 32 8 20 5 80 11 96 26 56 17 64 15 24 21 72 15 32 8 60 10 44 26 80 | Screw, passenger, P.E.I. Paddle Screw, tug, St. John. """ Stern-wheel, passenger, St. John. Paddle, tug, St. John. """ Screw, tug """ Screw, tug """ Screw, tug """ Screw, pass. |
| Northumberland. Princess Jacques Cartier Leader Mildred Fred Glasier Hercules Springfield Admiral Hero Tilly Glasier Sea King G. K. King G. D. Hunter Hampstead Winnie | 350 350 300 170 | April | 24 25 25 1 12 12 12 12 12 12 12 12 13 13 13 13 13 13 13 14 15 16 17 17 18 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19. | 1,255 46 541 79 379 96 29 32 40 11 10 39 87 11 232 73 158 20 127 63 209 31 128 67 97 234 52 12 46 | 100 40 51 36 88 40 7 32 8 20 5 80 11 96 26 56 17 64 15 24 21 72 15 32 8 60 10 44 26 80 5 96 | Screw, passenger, P.E.I. Paddle " " Screw, tug, St. John. "" Stern-wheel, passenger, St. John. Paddle, tug, St. John. "" "" Screw, tug " "" "" "" "" "" "" "" "" "" "" "" "" " |
| Northumberland. Princess Jacques Cartier Leader Mildred Fred Glasier Hercules Springfield Admiral Hero Tilly Glasier Sea King G. K. King G. D. Hunter Hampstead Winnie | 350 350 300 170 | April | 24 25 1 12 12 12 12 12 12 12 12 13 14 15 16 17 18 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19. | 1,255 46 541 79 379 96 29 32 40 11 10 39 87 11 232 73 158 20 127 63 209 31 128 63 45 48 67 97 234 52 | 100 40 51 36 38 40 7 32 8 20 5 80 11 96 26 56 17 64 15 24 21 72 15 32 8 60 10 44 26 80 | Screw, passenger, P.E.I. Paddle Screw, tug, St. John. """ Stern-wheel, passenger, St. John. Paddle, tug, St. John. """ Screw, tug """ Screw, tug """ Screw, tug """ Screw, pass. |
| Northumberland. Princess. Jacques Cartier. Leader Mildred Fred Glasier Hercules Springfield Admiral Hero Tilly Glasier Sea King G. K. King G. D. Hunter Hampstead Winnie Fanchon Ernest Eva Johnson. | 350 350 300 170 150 40 | April | 24 25 1 12 12 12 12 12 12 12 13 13 13 18 18 18 18 | 1,255 46 541 79 379 96 29 32 40 11 10 39 87 11 232 73 158 20 127 63 209 31 128 63 45 48 67 97 234 52 12 46 110 61 12 58 15 77 | 100 40 51 36 88 40 7 32 8 20 5 80 11 96 26 56 17 64 17 64 15 24 21 72 15 32 8 60 10 44 26 80 6 6 46 6 6 46 6 6 88 | Screw, passenger, P.E.I. Paddle " " Screw, tug, St. John. "" "" Stern-wheel, passenger, St. John. Paddle, tug, St. John. "" "" "" "" "" "" "" "" "" "" "" "" " |
| Northumberland Princess Jacques Cartier Leader Mildred Fred Glasier Hercules Springfield Admiral Hero Tilly Glasier Sea King G. K. King G. D. Hunter Hampstead Winnie Franchon Ernest Eva Johnson Bismark | 150 40 | April | 24 25 25 1 12 12 12 12 12 12 12 13 13 13 13 18 18 19 19 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10. | 1,255 46 541 79 379 96 29 32 40 11 10 32 73 158 209 31 127 63 209 31 128 63 45 48 67 97 234 52 12 46 110 61 12 58 15 77 49 04 | 100 40 51 36 38 40 7 32 8 20 5 80 11 96 26 56 17 64 15 32 21 72 15 32 8 60 10 44 26 80 6 04 6 28 8 92 | Screw, passenger, P.E.I. Paddle Screw, tug, St. John. """ Stern-wheel, passenger, St. John. Paddle, tug, St. John. """ Screw, tug """ Screw, pass. """ Screw, pass. """ Paddle """ Paddle """ Paddle """ |
| Northumberland Princess Jacques Cartier Leader Mildred Fred Glasier Hercules Springfield Admiral Hero Cilly Glasier Sea King G. K. King G. D. Hunter Hampstead Winnie Fanchon Ernest Eva Johnson Bismark Star | 350 350 300 170 150 40 40 | April | 24 25 25 12 12 12 12 12 12 12 12 13 13 13 13 18 18 19 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 | 1,255 46 541 79 379 96 29 32 40 11 10 39 87 11 232 73 158 20 127 63 209 31 128 63 45 48 67 97 234 52 12 46 110 61 12 58 15 77 49 04 461 03 | 100 40 51 36 38 40 7 32 8 20 5 80 11 96 26 56 17 64 15 24 21 72 15 32 8 60 8 60 6 6 88 6 04 6 28 8 89 8 44 88 | Screw, passenger, P.E.I. Paddle " " Screw, tug, St. John. "" "" Stern-wheel, passenger, St. John. Paddle, tug, St. John. Screw, tug " "" "" "" "" "" "" "" "" "" "" "" "" " |
| Northumberland. Princess. Jacques Cartier. Leader Mildred Fred Glasier Hercules Springfield Admiral Hero. Filly Glasier Sea King J. K. King J. D. Hunter Hampstead Winnie Franchon Ernest Eva Johnson Bismark | 150 40 300 680 | April | 24 25 25 1 12 12 12 12 12 12 12 13 13 13 13 18 18 19 19 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10. | 1,255 46 541 79 379 96 29 32 40 11 10 32 73 158 209 31 127 63 209 31 128 63 45 48 67 97 234 52 12 46 110 61 12 58 15 77 49 04 | 100 40 51 36 38 40 7 32 8 20 5 80 11 96 26 56 17 64 15 32 21 72 15 32 8 60 10 44 26 80 6 04 6 28 8 92 | Screw, passenger, P.E.I. Paddle Screw, tug, St. John. """" Stern-wheel, passenger, St. John. Paddle, tug, St. John. """" Screw, tug """" Screw, pass. """ Screw, pass. """ Paddle """ Paddle """ Paddle """ Paddle """ |

STEAM Vessel Inspected, &c.-New Brunswick and P. E. Island Division-Continued.

BOILERS AND MACHINERY-Continued.

| | of Passen- gers Allowed. | Da Certif Expi | icate | Gross Tons . | Tonnage Dues and Inspection Fees Paid. | Class of Vessel and where employed |
|-----------------------------------------|-----------------------------------|----------------------|---------------------|--------------------------------|----------------------------------------------------|------------------------------------------------------------|
| | 1900. | | | \$ cts. | | |
| annie | | April | 21 | 33 44 | 7 64 | Screw, tug, St. John. Stern-wheel, passenger, St. John. |
| Anne | 200 | " | 21 | 138 21 | 19 04 | Stern-wheel, passenger, St. John. |
| Champion | | " | 24 | 190·14 305·77 | 20 20 29 48 | Paddle, tug, St. John. |
| Tope | 150 | " | 24 | 104 66 | 16 40 | " ferry " |
| daggie Milier | 1.70 | May | 1 | 11:77 | 5 96 | Screw, tug, St. John. |
| Ziking | 123 | " | 1 | 11 · 77 127 · 70 33 · 65 | 18 24 | passenger, St. Croix. |
| Viking | | ,, | 6 | 33.65 | 7 72 7 88 | tug, St. John. |
| angent | 1 | 11 | 9 | 3) 74 | 7 88 | Twin-screw, tug, St. John. |
| zillie | 65 | 11 | 12 | 71:64 | 10 76 | Screw " " |
| Iontague | 10 | - 11 | 15 | 129·55 106·96 | 18 32 16 53 | Paddle, ferry, Georgetown. |
| Electra | 40 | "" | 16 16 | 32.90 | | Screw, passenger, Charlottetown. |
| Velson | | " | 16 | 59·90 | 7 64 9 80 | " tug " |
| Fred, M. Batt | | '' | 16 | 5.59 | 5 48 | " vacht " |
| dash | 40 | " | 17 | 74 87 | 11 00 | " tug " |
| Alameda | | | 17 | 62.59 | 10 04 | " passenger " |
| C. A. Stewart | | " | 17 | 35.94 | 7 88 | Twin-screw, tug " |
| Elfin | | - " | 17 | $122 \cdot 42$ | 17 76 | Paddle, ferry " |
| črank C. Batt | 40 | 11 | 18 | 32.90 | 7 64 | Screw, ferry, Summerside. |
| Atlas | 1 | | 19 | 15.79 | 6 28 | " " Point du Chêne. |
| Clushing, | 200 | - " | 11 | $257 \cdot 09 \\ 70 \cdot 13$ | 28 56 | " passenger, St. John. |
| | | June | $\frac{2}{7}$ | | 10 60 | " tug |
| Ada | | " | 7 | 3 66 30 59 | 5 32 | yacht, Fredericton. |
| Quiddy | | " | $\frac{7}{7}\cdots$ | 8.71 | 7 40 5 72 | Paddle, tug "Twin-screw, yacht" |
| tandoiph | | " | 8 | 5.05 | 5 40 | Screw, tug |
| Meta Carrie Knight | l | ., | 8 | 5.88 | 5 48 | " " " |
| Ventune | 40 | 11 | 9 | 71 15 | 10 68 | " St. John. |
| Neptune Wee Laddie | | " | 12 | 16.60 | 6 36 | 11 11 11 |
| 481117A | | 11 | 20 | 13.55 | 6 12 | " " Miramichi. |
| 20(12)(1 | į. | 1 11 | 20 | 10.32 | 5 80 | " " " |
| ady Dufferin | 40 | " | 20 | 47 48 19 33 | 8 76 | |
| Lady Dufferin Florence Bessie | 1 | " | $rac{20}{20}$ | 5.18 | 6 52 5 40 | 1 7 1 1 |
| Sessie | 900 | | 21 | 101.24 | 16 16 | |
| Rustler Loyalist Zulu | 200 | | 21 | 17:57 | 6 44 | u tug u |
| Zulu | 1 | | 21 | 17.60 | 6 44 | " " " |
| Bridgetown | 1 | | 21 | 14 66 | 6 20 | |
| Bridgetown | | 11 | 22 | 21 55 | 6 76 | |
| St. George St. Nicholas Miramichi | 200 | " | 23 | 277·78 62·20 | 30 24 | Paddle, passenger " |
| St. Nicholas | 100 | " | $\frac{22}{23}$ | 62:20 | 9 96 | |
| Miramichi | 100 | " | 23 22 | 75·18 16·52 | $\begin{array}{c c} 11 & 00 \\ 6 & 32 \end{array}$ | tug " |
| Jubilee | 1 | | 22 | 70.50 | 10 60 | tug " |
| Mascott Sybella H | 40 | ' " | 22 | 70 68 | 10 68 | Paddle, ferry |
| Sarcella | | ;; | 22 | 21 86 | | |
| rip. | 1 | 1 | 23 | 4.81 | 5 40 | |
| Lena | l . | | 22. . | 26 · 40 | 7 08 | " " |
| St. Isidore | | . " | 23 | 141.75 | | Paddle, tug " |
| Nelson Arthur | 100 | " | 23 | 64:34 | 10 12 | |
| Arthur | | .1 | 23 | 4:99 | 5 40 | " yacht " |
| Marietta | 20 | , " | 23 | 7:04 | 5 56 | Paddle tue |
| St. Kilda Waring | | " | $\frac{23}{28}$ | 55.64 28.74 | 9 48 7 32 | Paddle, tug Screw, tug, St. John. |
| waring | 1 | " | 40 | 20 /4 | 1 32 | - Jonn. |

Steam Vessels Inspected in Canada but Registered elsewhere, for the Year ended June 30, 1899.

NEW BRUNSWICK AND PRINCE EDWARD ISLAND DIVISION.

BOILERS AND MACHINERY.

| Name of Vessel. | Number of Passen- gers Allowed. | Date Certificate Expires. | Gross Tons. | Tonnage Dues and Inspection Fees Paid. | Class of Vessel and where employed. |
|----------------------|---------------------------------------------|---------------------------------|----------------|----------------------------------------|----------------------------------------|
| State of Maine | 550 | 1900. April 1 | | \$ ets. | Paddle, passenger, St. John to Boston. |
| Cumberland St. Croix | | May 25 | 1,993 58 | 136 48 167 52 | Screw, |
| Total | | | 5,009 39 | 424 80 | |

W. L. WARING, Steamboat Inspector.

STEAM Vessels not Inspected for the Year ended June 30, 1899.

NEW BRUNSWICK AND PRINCE EDWARD ISLAND DIVISION.

BOILERS AND MACHINERY.

| Name of Vessel. | Gross Tonnage. | Registered Tonnage. | Remarks. Why not Inspected and Class of Vessel |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| City of Monticello. Rose Standish Ada G. Fourist. Electric. Feneral Leavitt. Lubec Nautilus Bessie Ardella St. Andrew Alcyone Hillsborough. Southport. May Queen. Victor Henrietta Eva Squirrel Nellie H. St. Lawrence Alice, Derby Utopia Frances. | 17 44 15 05 228 67 239 92 35 92 45 51 19 12 18 01 13 11 7 52 50 82 15 77 11 66 25 00 | 565 62 216 90 30 55 10 98 2 55 12 11 25 47 11 58 52 11 10 73 186 15 17 94 28 67 13 01 12 25 8 97 5 12 10 51 10 75 11 0 75 11 0 75 11 0 75 11 0 75 11 0 75 11 0 75 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Paddle, out of district. " unable to inspect. " laid up. Screw, out of district. " laid up. " unable to inspect. " " " laid up. " getting new boiler. " laid up. Paddle, not applied for. " " " " " Screw, out of district. Paddle, unable to inspect. Screw, " " " " " " " " " " " " " " " " " " " |

STEAM Vessels Inspected for the Year ended June 30, 1899.

NEW BRUNSWICK AND PRINCE EDWARD ISLAND DIVISION.

HULL INSPECTION.

| Name of Vessel. Number of Passengers Allowed. | | Date Certificate Expires. | | Gross Tons. | Tonnage Dues and Inspection Fees Paid. | | Class of Vessel and where employed | | | |
|------------------------------------------------|-----|---------------------------------|-------------------|----------------------|-------------------------------------------------|------|------------------------------------|--------------|--------------|---------|
| | | 100 | | | | | | · | | |
| | | 189 | 9. | | \$ 0 | ets. | } | | | |
| Springhill | | July | | 189.05 | 23 | 12 | Screw, | passenger, | coasting. | |
| Arbutus | | Aug. | 1 | 46:76 | | 76 | 1 | | St. Croix. | |
| Calla | 30 | | 2 | 9:79 | | 80 | | 11 | TT " 33 | ~ |
| Delta | 40 | | 25 | 19.93 | | 60 | | 11 | Hopewell | Cape. |
| Victoria | | Mar. | | 1,001 93 | | | Paddle | | St. John. | |
| Western Extension | | Sept. | 7 | 424 89 | | 92 | | " | 11 | |
| Aberdeen | 400 | Nov. | 21 | 243 · 86 367 · 48 | 27 | 44 | Stern-v | vneel " | 3.4 | |
| Elliott | | | 7 | 294 75 | | 30 | Decrew, | freight, co | asting. | |
| Ouangondy | 208 | Dec. | 1 | 294 10 | 31 | 52 | Paddle. | , ferry, St. | John. | |
| | | 190 | 0. | | | | | | | |
| Storm King | 40 | Feb. | 21 | 107 · 87 | 16 | 64 | Screw. | passenger, | St. John | |
| E. Ross | | Mar. | 7. | 29 63 | | 40 | " | m.senger, | | |
| Prince Rupert | 850 | | 14 | 1,158 44 | | | Paddle | | " | |
| Wm. H. Murray | 40 | | 17 | | | | Screw | 11 | | |
| Northumberland | 350 | | 24 | 1.255 - 46 | | | Twin-se | | North'ld S | Strait. |
| Jacques Cartier | 300 | | 25 | 379 96 | | | Paddle | | 11 | , |
| Princess | 350 | | 25 | | | | Screw | ** | 11 | |
| Springfield | | April | | 232.73 | | | Stern-v | vheel | St. John. | |
| Hampstead | 150 | | 13 | 234 52 | | 80 | Screw | ** | ** | |
| Fanchon. | 40 | | 17 | 110.61 | | | Paddle | ** | 11 | |
| Victoria | 680 | | 18 | 1,001 93 | | 16 | | 11 | 11 | |
| May Queen | 321 | | 20 | 539 · 40 | | 12 | | 11 | 11 | |
| David Weston | 450 | | 20 | 765 15 | | 20 | | ** | ** | |
| Cliften | 200 | | $\overline{21}$ | 138 · 21 | | 04 | Stern-v | vheel " | ** | |
| Maggie Miller | 150 | | 24 | 104 66 | | | | , ferry, Mil | llidgeville. | |
| Star | 300 | | $\overline{24}$. | 461 03 | | 83 | | passenger | St. John. | |
| Viking | | May | 1 | 127.70 | 18 | 24 | Screw | ''' | St. Croix. | |
| Flushing | 250 | | 11 | 257 09 | 28 | 56 | | ** | St. John. | |
| Lillie | 65 | | 12 | 71.64 | 10 | 76 | | 11 | | |
| Montague | 75 | | 15 | 129 55 | 18 | 32 | Paddle | , ferry, Geo | orgetown, I | P.E.I. |
| Electra | 40 | | 16 | 106 · 96 | 16 | 56 | Screw. | passenger | , Ch'town, | ** |
| Alameda | 70 | | 17 | 62.59 | | 04 | | ' " | " | 11 |
| Elfin | 65 | | 17 | 122.42 | | 76 | Paddle | , ferry | •• | 11 |
| Wm Aitkens | 40 | | 17 | 74.87 | | | | passenger | *1 | ** |
| Frank C. Batt | 40 | | 18 | 32 90 | | 64 | | " | Summersi | de. |
| Dirigo | 1 | June | 2 | 70.13 | | 60 | | 11 | St. John. | |
| Neptune | 40 | | 9 | 71 · 15 | | 68 | | 11 | . 11 | |
| Lady Dufferin | 40 | | 20 | 47:48 | | | Paddle | *** | Miramich | i. |
| Nelson | 100 | | 21 . | 64.34 | | | Screw | ** | 11 | |
| Miramichi | 100 | | 21 | 75.18 | | 00 | ** | 11 | ** | |
| St. Nicholas | 100 | | 22 | $62 \cdot 20$ | | 96 | | ** | ** | |
| Sybella H | 40 | | 21 | 70.68 | | | Paddle | , ferry | ti | |
| Victor | 35 | | 22 | | . 8 | 68 | 10 | | , Campbell | |
| Eva | 40 | | 22 | | 6 | 44 | Screw | . " | Dalhousie | |
| St. George | | | 21 | | | | Paddle | • • | Miramich | |
| Marietta | 25 | | 21 | | | | Screw | ** | 11 | |
| Bismark | | April | | 49·04 | | | Paddle | | St. John. | |

I. J. OLIVE, Hull Inspector, &c.

Steam Vessels Inspected in Canada but Registered elsewhere, for the Year ended June 30, 1899.

NEW BRUNSWICK AND PRINCE EDWARD ISLAND DIVISION.

HULL INSPECTION,

| Name of Vessel. | Number of Passen- gers Allowed. | Date Certificate Expires. | Gross Tons. | Tonnage Dues and Inspection Fees Paid. | |
|-----------------|---------------------------------------------|---------------------------------|----------------|-------------------------------------------------|--|
| | | 1900. | | \$ ets. | |
| State of Maine | 550 550 400 | April 1 " 27 . May 25 | 1,605.82 | 136 48 | |

I. J. OLIVE, Hull Inspector, &c.

STEAM Vessels not Inspected for the Year ended June 30, 1899. NEW BRUNSWICK AND PRINCE EDWARD ISLAND DIVISION.

HULL INSPECTION.

| Name of Vessel. | Gross Tonnage. | Registered Tonnage | Remarks. Why not inspected and class of vessel. |
|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------|--------------------------------------------------|
| City of Monticello May Queen. Frances Millsborough Southport Rustler Rose Standish. General Leavitt Lubec | 35 92 26 34 228 67 239 92 101 54 384 93 22 65 | 17 · 94 17 · 91 66 · 13 186 · 15 | Not ready " " |
| Total | 2,124 56 | 1,172 20 | |

I. J. OLIVE, Hull Inspector, &c.

STEAM Vessels Inspected for the Year ended June 30, 1899.

BRITISH COLUMBIA DIVISION.

BOILERS AND MACHINERY.

| Hyak Duchess Jwendoline Alberta. | 20 | Date Certificate Expires. | | Tons. | Inspec- tion Fees Paid. | Class of Vessel and where employed. | |
|-------------------------------------------|----------|---------------------------------|-----------------------------------------------------|-----------------------|-------------------------------------------------------|------------------------------------------------------------|--|
| Duchess | -90 | 189 | | | \$ cts. | | |
| Awendoline | | July | 4 | 39:04 | | Freight and pass., Upper Columbia R | |
| Alberta | | " | $\begin{bmatrix} 5 \dots \\ 9 \dots \end{bmatrix}$ | 145 48 90 59 | 19 60 12 28 | | |
| | | | 11 | 508 15 | 48 64 | " Kootenay Lake. | |
| Red Star | | | 11 | 14.81 | 6 20 | Freight, Kootenay Lake. | |
| Kokanee | 200 | - '' | 13. | 347 50 | 35 84 | and pass., Kootenay Lake. | |
| Hercules | 50 | " | 14 13 | $\frac{64.68}{43.81}$ | 10 20 8 52 | Tug Kostoner Leke | |
| Angerona | | " | 13 | 13.79 | | Tug, Kootenay Lake. Yacht | |
| Nelson. | | " | 14 | 496.01 | | Freight and pass., Kootenay Lake. | |
| nternational | 300 | ٠. | 14 | 525 55 | 50 08 | 11 | |
| Surprise | | " | 14 15 | 14·80 193·49 | 6 12 | Tug " | |
| City of Ainsworth | 90 | ", | 15 | 14.78 | $\begin{array}{c} 23 \ 44 \\ 6 \ 20 \end{array}$ | Freight and pass. "Freight " | |
| Denver | | '; | 15 | 8.51 | 5 72 | Tug " | |
| Kaslo. | | | 17 | 57 17 | 9 08 | Freight and pass. " | |
| Lytton | 125 | | 17 | 451 66 | 44 16 | " Columbia River, | |
| Rossland | | '' | 18 | 883 55 | 78 72 | | |
| Wm. Hunter | | '' | 18 19 | 56·70 578·03 | 9 08 54 24 | Slocan Lake. | |
| Slocan Kootenay | | " | 19 | 1,117.09 | 97 36 | " Columbia River. | |
| Illicillewaet | | 1 | 20 | 97 92 | 12 84 | H H | |
| Columbia | | ,, | 20 | 49 84 | 9 00 | Tug " | |
| Lardeau | | 11 | 20 | 9 60 | | Passenger | |
| Archer | | '' | 20 | 15:32 | 6 20 | Tug " | |
| Penticton | | '' | $23 \dots $ | 49 69 142 48 | 9 00 16 36 | Greight, Dog Lake. | |
| Aberdeen | | " | 24 | 554.04 | $\frac{10}{52} \frac{30}{32}$ | Freight and pass., Okanagan Lake. | |
| Thompson | | 11 | 26 | 149.80 | 20 00 | " Thompson River. | |
| Ethel Ross | | " | 26 | 82.05 | | Freight " | |
| Bristol | | 1,1 | 28 | 1,983 15 | 166 64 | Pacific Ocean. | |
| Marjorie | | Aug. | 4 8 | 19.50 1,495.09 | 6 60 127 60 | Passenger, Yukon River. Freight and pass., B.C. waters. | |
| Royal City | | ,, | 10 | 200 46 | 24 00 | Fraser River. | |
| Mermaid | | 11 | 13 | 128.55 | | Ferry, Nanaimo Harbour. | |
| Swan | | 11 | 13 | 12.27 | 5 96 | Yacht, Nanaimo. | |
| Joan | | | 11 | 821 21 | | Freight and pass., B.C. waters. | |
| Mamie | | " | 15 | 89·60 741·00 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | " & Alaska | |
| Horsa | | " | 9 | 373.09 | 37 84 | | |
| Queen City | | Sept. | | 391 21 | 39 28 | 11 11 11 | |
| Tees | 125 | , ,, | 16 | $569 \cdot 24$ | 53 52 | | |
| City of Nanaimo | 500 | 11 | 19 | 761 37 | 68 88 | | |
| Bonanza | | | 21 | 109:04 | 13 72 | Freight " | |
| City of Tipella Willie | 17 27 | " | $24 \dots 25 \dots$ | 18 89 82 60 | 6 52 11 64 | Passenger, Harrison Lake. | |
| Romona. | | ,, | 28 | 250.79 | 28 08 | and freight, Fraser River. | |
| Pilot | | ,,, | 30 | 279.05 | 30 32 | coast. B.C. | |
| On Time | | Oct. | 13 | 10.70 | 5 88 | Tug. Fraser River. | |
| Water Lily | | " | 18 | 73 81 | 10 92 | Water boat, Esquimalt Harbour. | |
| Troubadour | | NT | 21 | 17 61 64 80 | 6 44 10 20 | Tug, Victoria Harbour. Freight and pass., coast, B.C. | |
| Mystery | | Nov. July | 15 | 834.81 | 74 80 | Kootenay Lake. | |
| Ymir | | o diy | 15 | 69.74 | 10 60 | Tug " | |
| Sandon | 50 | - 11 | 15 | 96:22 | 12 68 | and pass., Slocan Lake. | |
| Fawn | | " | 15 | 32.70 | 7 64 | Tug, Columbia River. | |
| Minto | 250 | | 15 | 828 91 | 74 32 | Freight and pass., Columbia River. | |
| Trail Delta. | 50 | Nov. | 15 | 662:77 | 61 04 | Freight, coast, B.C. | |
| Maude | | Dec. | $egin{matrix} 25 \dots \ 1 \dots \end{smallmatrix}$ | 25 · 20 174 · 99 | 22 00 | reight, coast, B.C. | |
| Alarm | | Dec. | 3. | 33.91 | 7 72 | 11 11 | |
| Rainbow | 35 | Aug. | 2 0 | 207 21 | 24 64 | 11 11 | |
| Princess Louise Danube | | Dec. Nov. | | 931 · 76 886 · 89 | 82 56 78 96 | Ft. & pass., B.C. waters and Alaska | |

STEAM Vessels Inspected, &c.—BRITISH COLUMBIA DIVISION—Continued.

BOILERS AND MACHINERY—Continued.

| Name of Vessel. | Number of Passen- gers Allowed. | Da Certif Exp | icate | Gross Tons. | Tonna Due and I specti Fees P | es In- ion | Class of Vessel and where employed. |
|--------------------------------|---------------------------------------------|---------------------|-----------------|----------------------|-------------------------------------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | 189 | 99. | | 8 | cts. | |
| Morris | | Dec. | 19 | 11.66 | 5 | 96 | Fishing tug, Naas River. |
| Mist | | 11 | 22 | 28.68 | | 32 | west coast, V.I. |
| i | | 190 | 90. | | İ | | |
| Autolycus | | Jan. | | 25:47 | | 00 | Yacht, coast, B.C. |
| Lorne | 20 | Feb. | 6 | 287 96 | | 04 | Tug and pass., coast, B.C. |
| Bessie | | " | 17 | 10:90 | | 88 | Tug, Fraser River. |
| Thistle | 140 | Mar. | 27 | 222 · 36 101 · 17 | | 76 | Freight and pass., coast, B.C. |
| Rarbara Roscowitz | 125 | Mar. | $\frac{20}{22}$ | 337 92 | | 08 04 | 11 11 |
| Barbara Boscowitz Constance | 12 | " | 23 | 49.52 | | 00 | Tug and pass., coast, B.C. |
| Constance | | | 25 | 152.18 | | 16 | Tug, coast, B.C. |
| Daisy | | " | 27 | 60.10 | | 80 | " " |
| | | 189 | 99. | | i | | |
| R. P. Rithet | 81 | Oct. | 15 | 816 69 | 73 | 36 | Freight & pass, Victoria & Fraser Riv |
| | | 190 | | | | 0., | reigne te pass, vietoria te i rasci itiv |
| A 1L. | 100 | 1 | | er.9 - 40 | 4100 | 40 | The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s |
| Alpha Hope | | April | 19 | 653 46 78 49 | *120 | $\frac{48}{32}$ | Freight & pass., coast B.C. & Alaska |
| Nell | | " | 25 | | | 64 | Tug and pass., coast, B.C. Freight & pass. |
| Florence | | " | 26 | | | 40 | Fishing tug, Skeena River. |
| Casca | | May | 2 | | | 20 | Freight & pass., Stikine River. |
| Sybil | 100 | 1 11 | 3 | | | 76 | " Yukon River. |
| Alert | | 111 | 5 | | | 52 | Tug and pass., coast, B.C. |
| Mermaid | 100 | | 6 | | | 32 | Ferry, Nanaimo Harbour. |
| Swan | | | 6 | | | 96 | Yacht " |
| Oscar | | 1 | 15 | 95.42 | | 60 | Freight, coast, B.C. |
| Yosemite | $\begin{array}{c} 500 \\ 12 \end{array}$ | '' | 27 | 1,525 03 85 26 | 130 | 80 | Freight and pass., coast, B.C. |
| | | 189 | | i | | - | 1 18 |
| Katie. | 100 | May | | 46.00 | Q | 68 | Pass., Victoria harbour. |
| 1 | 100 | 19 | | 20 00 | | 00 | t dos., v letoria nartoldi. |
| Son Ivon | | 1 | 3 | 91 - 41 | | ev | Vi king Ang Shaana Dina |
| San Juan Wellington | | | 13 | 21 41 16 30 | | 68 | Fishing tug, Skeena River. Fraser River. |
| Magnet | | | 14. | 23.72 | | 92 | " Fraser River. |
| Stranger | | | 14. | 21 26 | | 68 | 11 11 |
| Fearless | | | 15. | 52.97 | | 24 | Tug, Fraser River. |
| Cleeve | | ., | 15. | 35 94 | 7 | 88 | 11 11 |
| May Queen | | " | 15 | | | 12 | п п |
| Eva | | | 15 | | | 80 | u u |
| Delta | | ! | 15 | | | 20 | 10 11 T2: |
| Surrey | | " | 15 15 | | | 04 | Ferry " Freight & pass., Fraser River. |
| Transfer | 120 | " | 16 | | | 12 | |
| Beaver | 150 | ,,, | 16 | | | 60 | 11 11 |
| Cutch | 200 | | 17 | | | 08 | coast, B.C. & Alaska |
| Lapwing | 30 | | 19 | 150.73 | 20 | 08 | 11 11 11 |
| City of Nanaimo | 500 | | 23 | 761 37 | | 88 | " " " |
| Selkirk | | 11 | 23 | | | 36 | Freight, coast, B.C., and Alaska. |
| Fingal Clansman | | " | 25 | | | 28 | " " |
| Clansman Rothesay | 950 | - 0 | 26 | | | 76 | Freight & new Day 3.7.1 |
| Glenora | | | $\frac{26}{27}$ | | | 24 36 | Freight & pass., Burrard Inlet. |
| Sadie | | " | 3 | | | 92 | Tug & pass, coast, B.C |
| | . 40 | | | | | | in the second country D.C. |
| Lottie | | - 11 | 3 0 | 29.24 | 7 | 32 | Tug, Fraser River. |

^{* 2} years' dues.

J. A. THOMSON, Steamboat Inspector, Victoria, B C.

Steam Vessels Inspected in Canada but Registered elsewhere for the Year ended June 30, 1899.

BRITISH COLUMBIA DIVISION.

BOILERS AND MACHINERY.

| Name of Vessel. | Number of Passen- gers Allowed. | Date Certificate Expires. | tificate Gross I | | age and tion aid. | Class of vessel and where employed. | | | | |
|---------------------|---------------------------------------------|---------------------------------|------------------|-------|----------------------------|-------------------------------------|----------------|------------|--|--|
| | | 1899. | | \$ | cts. | | | | | |
| North Star | 120 | July 8. | | | 40 | | pass., Kootena | y River. | | |
| Flirt | | 13 | | | 32 | | otenay Lake. | | | |
| Rosalie | 127 | 29 | | | | F. and p., C | anadian & fore | ign ports. | | |
| Garland | 50 | Aug. 1 | | | 36 | ** | 11 | " | | |
| Dirigo | 240 | 25 | 843 55 | 75 | 52 | 11 | 11 | ** | | |
| | | | | | | '' | 11 | ** | | |
| | ĺ | 1900. | | | | " | 11 | 11 | | |
| | | | | i | | 11 | 11 | ** | | |
| Victoria | 342 | Jan. 4 | 3,502 00 | 288 | | ٠, | ** | ** | | |
| Tacoma | 232 | 13 | | 232 | | ,, | 11 | ** | | |
| $\mathbf{Humboldt}$ | 325 | Mar. 8 | | | 00 | 11 | | *1 | | |
| Amur | 112 | 6 | 907:16 | | 56 | 11 | 11 | 11 | | |
| City of Kingston | 500 | April 10. | 1,117 40 | | 36 | 11 | 11 | ** | | |
| Geo. E. Star | 100 | May 1 | | | 84 | " | 11 | ** | | |
| City of Seattle | 592 | 7 | 1,411.00 | 120 | 88 | 11 | 11 | ** | | |
| Utopia | 100 | 10 | 423 72 | . 41 | 84 | 11 | 11 | ** | | |
| Queen | 402 | 12 | 2,727 80 | 226 | 24 | 11 | 11 | | | |
| Walla Walla | 401 | 17 | | 253 | 60 | " | | ** | | |
| * Amur | 300 | 28. | | 8 | 00 | 11 | " | ** | | |
| Alice Gertrude | 342 | . 24 | 413.17 | 41 | 04 | ,, | ,, | | | |
| Garonne | 500 | " 26 | 3.876 00 | 318 | 08 | 11 | 11 | 11 | | |
| Cottage City | 273 | 29 | | 158 | | 11 | ** | ** | | |
| Umatilla | 400 | June 6. | | 253 | | 11 | tt | ** | | |
| North Pacific | 200 | i 6 | | | 12 | " | ** | 11 | | |
| Total | | | 28,462 · 40 | 2,482 | 12 | | | | | |

^{*} Special inspection increase passenger.

J. A. THOMSON, Steamboat Inspector, Victoria, B.C.

STEAM Vessels not Inspected for the Year ended June 30, 1899. BRITISH COLUMBIA DIVISION.

BOILERS AND MACHINERY.

| Name of Vessel. | Gross Tonnage. | Register- ed Tonnage. | Remarks. Why not Inspected and Class of Vessel. |
|--------------------|-------------------|-----------------------------|--------------------------------------------------|
| CharmerSpratts Ark | 1,044·41 | 496 · 58 | Screw, freight. and pass., laid up at present. |
| | 307·88 | 143 · 04 | Twin-screw, freight "" |

J. A. THOMSON, Steamboat Inspector, Victoria, B.C.

Steam Vessels Inspected for the Year ended June 30, 1899.

BRITISH COLUMBIA DIVISION.

BOILERS AND MACHINERY.

| Name of Vessel. | Number of Passen- gers Allowed. | Da Certii Exp | | Gross Tons. | Tonnage Dues and Inspection Fees paid | class of vessel and where employed |
|-------------------------------------------------------------------------------|---------------------------------------------|---------------------|----------------|---------------------------|---------------------------------------------------|---------------------------------------------------|
| | | 189 | i | | \$ cts | |
| Tyrrell. Kildonan Driole Fingal Chieftain Nora. Westminster Advance | 150 | July | 2 | 678 2 | 62.2 | Stern-paddle, Stickine River. |
| Kildonan | | " | 6 | 51.4 | E 9 08 | Screw tug, coast, B. C. |
| Oriole | · · · · · · · · · · · · · · · · · · · | _ '' | 11 | 4.4 | 5 3 | ? Pleasure yacht, Columbia River. |
| Ingal | · · · · · · · · · · · · | June | 24 | 90°6 64°8 | | Freight, coast, B. C. |
| Nora | | oury | 16 | 19.4 | | Fishing tug, Skeena River. |
| Westminster | | | 16 | 18.2 | | |
| activation in the second | | " | | 35.7 | 7 88 | 3 " |
| Florence | | ** | 19 | 30.4 | | |
| Florence Flora Emma Nott | 75 65 | " | 28 28 | 100·9 134·0 | | Stern-wheel, Lake Bennett. |
| Nora | . 05 75 | | 29 | 100.9 | | |
| Joseph Clossett | 100 | | 30 . | 147.0 | | |
| Ora | 75 | Aug. | 6 | 100.9 | 3 16 08 | 3 11 |
| Anglian | 75 | ** | 10 | 161 4 | | |
| Ora Anglian Vivian Willie Irving Viola Yukoner Jessie Burrows Belle Hong Kong | 100 | 11 | 11 15 | 54·0 101·9 | | |
| Viola | 100 | | 17 | 3.7 | | Lake Bennett. Prospecting yacht, Yukon River. |
| Yukoner | 250 | | 23 | 781 3 | 1 70 4 | Stern-wheel, Yukon River. |
| Jessie Burrows | 40 | Oct. | 1 | 131 · 7 66 · 6 | 0 18 50 | i Fraser River. |
| Belle | 12 | Aug. | 6 | | | Tug, coast, B. C. |
| Belle | · · · · · · · · · · · · · · · · · · · | - 11 | 16 | 35 7 28 1 | $egin{array}{cccc} 6 & 7.8 \ 9 & 7.2 \end{array}$ | |
| Etta White. | 15 | Sept. | 25 | 97 3 | | |
| Etta White | | Aug. | 26 | 33.0 | | |
| Senator | 30 | ,, | 11 | 27 (| 3 7 2 | Ferry, " |
| Gipsy | | Sept. | 29 | 10.0 | 6 58 | Tug, coast, B. C. |
| Saturna Esperanza | • • • • • • • • • • • • • • • • • • • • | Oct. | 22 | 22·0 30·8 | | |
| Esperanza Ermine | | ;; | 24 | 8.8 | | |
| Dreadnought | | Aug. | 8 | 32 8 | 4 7 6 | coast, B. C. |
| Dreadnought | | _ " | 26 | 30.7 | 5 74 | 8, 11 11 |
| Stella | • • • • • • • • • • • • • • • • • • • • | June | 1 | 16.3 | $\frac{2}{1}$ 63 | 0 |
| | | 190 | 00. | | i i | |
| Active | 20 | Jan. | 6 | 171 · 7 | 4 21 7 | 6 ,, ,, |
| Brunette | | | 11 | 37.0 | | |
| MamieVachie | ••••• | - 11 | 12 | 5.3 | | O Pleasure yacht, Wash., B.C. |
| Vachie | | | 17 | 9.9 | | O Tug, coast, B. C. |
| Iris Capilano | | " | 11 24 | 19·5 231·1 | | Fraser River. Freight and pass., coast, B.C. |
| Robt. Dunsmuir | | Feb. | 1 | $\frac{231}{231} \cdot 7$ | 5 26 5 | 6 " " " " " " |
| Tepic | 15 | | 16 | 70.8 | 7 10 6 | 8 Tug, |
| | | 189 | 99. | | | |
| Surrey | 50 | Aug. | 20 | 263 · 2 | 6 29 0 | Ferry, Fraser River. |
| | | 19 | 00. | | | |
| | | 77.1 | . | 141 0 | | , , , , , , , , , , , , , , , , , , , |
| I I Card | 1 | reb. | $\frac{24}{3}$ | 141 · 0 12 · 0 | | 8 Freight, coast, B.C. |
| J. L. Card Enterprise | 1 | | | | | 2 Tug, fishing, coast, B.C. 2 yrs. fees due |
| J. L. Card Enterprise Stampede | | Mar. | 4 | 11 • 0 | 7' K A | 6 Tug |
| Stampede Gipsy | | " | 4 3 | 11·9 49·6 | | 6 Tug " |
| Stampede Gipsy Vancouver | | 11 | 3 7 | 49·6 49·9 | 3 9 0 6 9 0 | 6 Tug " " 0 " Fraser River. 0 " coast, B.C. |
| Stampede Gipsy | | 11 | 4 | 49.6 | 3 9 0 6 9 0 6 6 5 | 6 Tug " " Fraser River. 0 " coast, B.C. 2 " " |

STEAM Vessels Inspected, &c.—British Columbia Division—Continued. BOILERS AND MACHINERY.—Continued.

| Name of Vessel. | Number of Passen- gers Allowed. | Date Certificate Expires. | Gross Tons. | Tonnage Dues and Inspection Fees Paid. | Class of Vessel and where employed. |
|--------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|--------------------------------------------------|---------------------------|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | 1899. | | 8 ets. | |
| Erie Burt Courser Chehalis Blonde Telephone North Star Lily Nagasaki S. S. Bailey Australian Linderman Alert Gleaner Ruth Scotia Clifford Sifton | 25 50 15 25 130 250 40 100 30 90 | April 4 23 17 18 18 Feb. 23 April 25 May 5 28 29 | | 9 c0 20 88 9 32 7 64 11 48 5 64 5 72 6 20 23 44 41 60 9 32 5 56 27 36 9 16 13 00 | Tug, coast, B.C. Freight and pass., Fraser River. Tug, Fraser River. " coast, B.C. Freight and pass., Upper Yukon. " " ferry, Lake Linderm'n Tug, Lake Linderman. F, and p., Lake Bennett to Atlin. F. and p., Atlin Lake. |
| Mabe F | 30 75 75 150 | 15 15 122 124 | 10 18 100 93 161 45 | 5 80 16 08 20 88 62 24 | F. and p., Atlin Lake. F. and p., Upper Yukon. |

W. A. RUSSELL, Steamboat Inspector, Vancouver, B. C.

Steam Vessels Inspected in Canada but Registered elsewhere, for the Year ended June 30, 1899.

BRITISH COLUMBIA DIVISION.

BOILERS AND MACHINERY.

| Name of Vessel. | Number of Date Passen-Certificate gers Expires. Allowed. | | Tonn Dues Inspec Fees F | and tion | Class of vessel and where employ | | | | |
|---------------------|-----------------------------------------------------------|------|----------------------------------|-------------|----------------------------------|------|--------------|-------|--------|
| | | 189 | 9. | | 8 | cts. | | | |
| Susie | 225 | Aug. | 9 | 1,121 2 | 3 104 | 88 | Stern-wheel, | Lower | Yukon. |
| Portius B. Weare | 185 | | 11 | 400 3 | | 00 | 11 | " | |
| John Cudahay | 190 | ,, | 11 | 819:6 | 1 73 | 63 | | 11 | |
| Linda | 190 | ., | 12 | 692 · 40 | 63 | 36 | | | |
| Louise | 70 | | 16 | 717:19 |) 65 | 36 | - 11 | 11 | |
| T. C. Power | 120 | 111 | 18 | 819 6 | | 60 | | 11 | |
| John J. Healey. | 220 | " | 20 | 550.00 | | 00 | | H | |
| Charles H. Hamilton | 91 | ** | 20 | 595.0 | | 60 | •• | 11 | |
| Rock Island | | - 11 | 23 | 553 69 | | 72 | 11 | ** | |
| John C. Barr | | | 24 | 546 8 | 51 | 76 | •• | 11 | |
| Total | | | | 6,816 0 | 630 | 88 | | | |

W. A. RUSSELL, Steamboat Inspector, Vancouver, B. C.

STEAM Vessels Inspected for the Year ended June 30, 1899.

BRITISH COLUMBIA DIVISION.

HULL INSPECTION.

| Name of Vessel. | Number of Passen- gers Allowed. | Dat Certifi Expir | cate | Gross Tons. | Tonnage Dues and Inspection Fees Paid | Class of Vessel and where employed |
|----------------------|---------------------------------------------|-------------------------|-----------------|----------------------|---------------------------------------|------------------------------------|
| | | 1899 | o. | | \$ ets | |
| Tyrrell | 150 | July | 2 | 678 26 | 62 24 | Stern-wheel, passenger. |
| Nahleen | | | $\frac{29}{30}$ | 589 · 98 357 · 84 | 55 20 36 64 | " " |
| Reindeer | 100 | | 28 | 1,983 15 | 166 64 | Screw, freight. |
| Clayoquot | | Aug. | 3 | 87 18 | 11 96 | passenger. |
| Marjorie | 12 | | 4 | 19.50 | 6 60 | Stern-wheel " |
| Islander Willapa | 500 100 | | 8 9 | 1,495 09 373 09 | 127 60 37 84 | Twin-screw "Screw " |
| Royal City | 39 | | 10 | | 24 00 | Stern-wheel " |
| Joan | 400 | | 11 | | 73 68 | Twin-screw " |
| Mamie | 12 | " | 15 17 | 89.60 741.00 | 12 20 67 28 | Screw " |
| Horsa | 100 100 | | 17 13 : | 128.55 | 18 32 | Twin-screw " |
| Senator | 30 | | 21 | 27 63 | 7 24 | Screw " |
| Belle | 12 | | 6 | 66 62 | 10 36 | " " |
| Queen City | | Sept. | 12 16 | 391 · 21 569 · 24 | 39 08 53 52 | ** |
| Tees City of Nanaimo | 500 | | 19 | | 68 80 | Twin-screw |
| City of Tipella | 17 | tr. | 24 | 18.89 | 6 52 | Screw " |
| Willie | 27 | | 25. | 82.60 | 11 64 | |
| Ramona Pilot | $\frac{50}{22}$ | | 28 30 | 250 79 279 05 | 28 08 30 32 | Screw" |
| Josie Burrows | | Oct. | 1 | | 18 56 | Stern-wheel |
| Etta White | 15 | | 7 | 97:35 | 12 76 | Screw |
| Mystery | 20 | Sept. | $\frac{26}{26}$ | 64 80 207 21 | 10 20 | 11 11 |
| Maude | None 30 | Aug. Dec | 1 | 174 99 | 24 64 22 00 | " " freight. |
| Princess Louise | 98 | - 11 | 13 | 931 76 | 82 56 | Paddle, passenger. |
| Danube | 300 | Nov. | 23 | 886 89 | 78 96 | Serew |
| | | 190 | 0. | i | 1 | |
| Active | 20 | Jan. | 6 | 171 · 74 | 21 76 | |
| Capilano | 25 | 11 | 24., | 231 14 | 26 48 | 11 0 |
| Lorne | 20 | Feb. | 6. | 287 96 | 31 04 | 0 0 |
| Tepic | 15 | · •• | 16 | 70.87 | 10 68 | 11 |
| | | 189 | 9. | | | |
| Surrey | 50 | Aug. | 20 | 263 · 26 | 29 04 | Paddle " |
| | | 190 | 0. | | | |
| Coquitlam | 75 | Feb. | 91 | 256 33 | 28 48 | Screw |
| Robert Dunsmuir | | | 20 | 231.75 | 26 56 | |
| Thistle | 50 | ,, | 27 | 222 36 | 25 76 | Screw " |
| Lois | 10 25 | Mar. | 4 18 | 25 15 50 41 | 7 00 9 00 | |
| Comox | 140 | | 20 | 101 17 | 16 08 | Twin-screw "Screw" |
| Barbara Boscowitz | 125 | | 22 | 337 92 | 35 04 | |
| Constance | 12 | | 23 | 49.52 | 9 00 | |
| Czar | 5/1 | April | 25 3 | 152 15 160 79 | | |
| Alpha | | | 13 | 653 46 | | Screw " |
| - | | 189 | | | | |
| R. P. Rithet | 01 | Oct. | | 816-69 | 79.90 | Stern-wheel |
| A. F. Kithet | . 81 | Oct. | 10 | 910 08 | 1 75 30 | Stern-wneel " |

STEAM Vessels Inspected, &c.—British Columbia Division—Continued.

 ${\tt HULL~INSPECTION-} Continued.$

| Name of Vessel. | Number of Passen- gers Allowed. | Date Certificate Expires. | Gross Tons. | Tonnage Dues and Inspec- tion Fees Paid. | Class of Ves | sel and where employed. |
|------------------------------------------------------------------------------------------|---------------------------------------------------------|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|---------------------------------------|
| | | 1900. | | \$ ets. | | |
| Hope | 15 25 60 150 100 12 100 500 | 18. 125 May 2 3 5 6 | 78 49 53 75 80 66 207 97 589 73 621 87 43 81 128 55 1,525 03 | 9 32 11 48 24 64 55 20 57 76 8 52 18 32 130 00 | Screw, Stern-wheel Twin-screw Stern-wheel Screw Twin-screw Paddle Screw | passenger. "" "" "" "" "" "" |
| Comet Surrey Ramona Beaver Transfer Cutch Lapwing City of Nanaimo Rothesay Glenora Sadie | 12 50 50 150 120 200 30 500 250 | 1900. May 27. June 15. 16. 16. 17. 19. 23. 26. | 85 · 26 263 · 26 250 · 79 545 · 44 264 · 16 675 · 85 150 · 73 761 · 37 553 · 11 542 · 15 | 11 80 29 04 28 08 51 60 29 12 62 08 20 08 68 80 52 24 51 36 8 92 | Paddle Stern-wheel "Screw" Twin-screw Stern-wheel Screw" | " " " " " " " " " " " " " " " " " " " |

R. COLLISTER,

Hull Inspector.

Steam Vessels Inspected in Canada but Registered elsewhere, for the Year ended June 30, 1899.

BRITISH COLUMBIA DIVISION.

HULL INSPECTION.

| Name of Vessel. | Number of Passen- gers Allowed. | Date Certificate Expires. | Gross Tons. | Tonnage Dues and Inspec- tion Fees Paid. | Class of Vessel and where employed | | |
|---------------------|---------------------------------------------|---------------------------------|-----------------------------------------|------------------------------------------|------------------------------------|--|--|
| | | 1899. | | \$ cts. | · | | |
| Rosalie | | July 29. | 318:51 | | Screw, passenger, northern ports. | | |
| Garland | | Aug. 1 | 166 61 | 21 36 | " Sound ports. | | |
| Dirigo | 240 | u 25 | 843 55 | $75 \ 52$ | n northern ports. | | |
| | | 1900. | | | | | |
| Victoria | 342 | Jan. 4 | 3,502:00 | 288 16 | Screw, passenger, China. | | |
| lacoma | 232 | 13 | | 232 88 | 11 11 11 | | |
| Humboldt | 325 | Mar. 8 | $1,075 \cdot 00$ | 94 00 | " " northern ports. | | |
| Amur | 112 | 6 | 907:17 | 80 56 | 0 0 | | |
| City of Kingston | | April 10. | 1,117 40 | 97 36 | Sound ports. | | |
| George E. Starr | | May 1 | 472 66 1,411 05 | 45 54 | Paddle, " | | |
| City of Seattle | 592 100 | " 7 " 10 | 423.72 | 41 84 | " " northern ports. " Sound ports | | |
| Utopia Queen | 402 | 10 | 2,727.80 | 226 24 | Sound ports, northern ports, | | |
| Walla Walla | 401 | 17 | 3,069.76 | 253 60 | San Francisco. | | |
| vv colice vv colice | 101 | 1899. | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 2000 | , mil i reactoco. | | |
| Amur | 300 | May 28 | 907 17 | 8 00 | Paddle, passenger, Seattle. | | |
| | | 1900. | | | : : : | | |
| Alice Gertrude | 342 | May 24 | 413 17 | 41 04 | Paddle, passenger, Sound ports. | | |
| Faronne | 500 | 26 | 3,876 00 | 318 08 | n northern ports. | | |
| North Pacific | 200 | June 6. | 488.73 | 47 12 | Sound ports. | | |
| Umatilla | 400 | 6. | 3,069.76 | 253 60 | Serew San Francisco. | | |
| Cottage City | 273 | May 20. | $1,885 \cdot 11$ | 158 80 | " northern ports. | | |

R. COLLISTER, Hull Inspector.

STEAM Vessels not Inspected for the Year ended June 30, 1899.

BRITISH COLUMBIA DIVISION.

HULL INSPECTION.

| Name of Vessel. | Gross Tonnage. | Registered Tonnage. | Remarks. Why notI nspected and Class of Vessel. |
|-----------------|--------------------------------------|----------------------------------|-------------------------------------------------|
| Charmer | 1,044 · 41 307 · 81 1,352 · 22 | 496 · 58 143 · 04 639 · 62 | Not running. |

R. COLLISTER,

Hull Inspector.

STEAM Vessels Inspected for the Year ended June 30, 1899.

KEEWATIN, MANITOBA AND NORTH-WEST TERRITORIES DIVISION.

BOILERS, MACHINERY AND HULL INSPECTION.

| Name of Vessel. | Number of Passen- gers Allowed. | Da Certit Exp | icate | Gross Tons. | | Tonnag Dues an Inspecti Fees Pai | id on | Class o | of Vessel a | nd wher | e employed |
|--------------------------------------------|------------------------------------------|---------------------|----------------------------------------|----------------|--------------------|-------------------------------------------|-----------------|---------|-----------------------------------------|---------------------|---------------------|
| | | | | | _ | | ts. | | *************************************** | | |
| Empire | 1 | Not i | ssued! | 3 | 70 | 1 | | Screw | Mackenzie | and Sl | ve River |
| Wrigley | ! | " | | 104 | 59 | | ! | 11 | freight, M | ackenzie | & Slave Riv |
| St. Alphonse | ļ | " | 1 | 24 | .94 | | | ,, | | ** | ** |
| Lillian B | ļ | " | | 4. | 60° | | | ** | 61 1 | . " | ** |
| NorahOtter | | " | j | 78 | - 99 | | | Stern | tug, Saska | itchewar | |
| Princess Helen | | | | 2 | 03 | | | Screw. | vacht | " | ** |
| | | 189 | 99. | | | | | , | ,, | ,, | |
| | | | | _ | | _ | | | | | |
| Widgeon Galatia | | Oct. | $\begin{bmatrix} 3 \\ 2 \end{bmatrix}$ | | ·95 | | 68 | Screw, | freight, L | ike Wal | igoon. |
| Galatia | | Care | 3. | | · 10 · 42 | | 68. 96: | . 11 | tug, Lake | of the 33 | Zanda |
| Josie | | | 29 | | 26 | | 28 | | rug, Lake | or the v | ooas. |
| Daisy Moore. | | | 29. | | 16 | | 48 | | | " | |
| Squaw | | - 11 | 29 | 21 | 60 | | 76 | ** | | | |
| Squaw Chieftain | | Oct. | 6 | 36 | 26 | 7 | 88 | | | ** | |
| Majestic | | 111 | 10 | 135 | | | | | | | Kainy Lake |
| Mohican | | 1 " | 8 | | 20 | | 08 | | tug, Rainy | | 7 1 |
| Heather Bell | | | 12 | 21 486 | 18 | | 68 | | " Lake | of the V | Voods. Dat Danta |
| Keenora | | | | 480 | 34 | 40 | ೧೦ | ! | and For | reignt, t Franci | Rat Portago s. |
| | | 190 | 00. | | | | | | | | |
| Phantom | | April | | | -88 | | | | ferry, Rat | Fortage | & Keewatin |
| Kennina | | May | 16 | | 86 | | 36 | | " | 11 | 11 |
| Shamrock | | 1 | 17 | | 84 | | | | pass., Lal | e of the | Woods, |
| Mary Hatch Balmoral | | " | 23 19 | 121 | 94 | | 96 | | tug pass. | 11 | |
| Mikado | | " | 15 | | 92 | | 00 | | tug | " | |
| Catherine S | 35 | | 15 . | | . 60 | | | | pass. | | |
| Edna Brydges | | | 22 | 176 | | | | | " Rat I | ortage & | Ft. Franci |
| Frank Burton | | 11 | 15 | | .00 | | 16 | +1 | fish tug, | Lake W: | innipeg. |
| Red River | | | 15 | 166 | 47 | 21 | | | pass. & frt. | | |
| City of Selkirk | 75 | | 15 | 457 413 | 82 | 44 | | | " | " | |
| Premier | 75 50 | | 15 | 413 201 | . 49 | 41 | | | ** | 11 | |
| Lady of the Lake Miles | | | 15.: 15. | | · 43 · 04 | | | | fish tug | " | |
| Millie Howell | | ;; | 15 | | 11 | | 92 | | " | | |
| Fisherman | | | 15 | | 22 | | 52 | | | | |
| Idell | 1 | 11 | 15 | | 92 | 9 | 32 | | ** | 11 | |
| Angler | | 11 | 15 | 16 | 16 | | 28 | | 11 | " | |
| Keewatin | ` | 11 | 15 | | 25 | | 28 | | tug, | Lake of | the Woods |
| Clipper | | | 15 | | · 95 · 42 | | 24 96 | | pass. & frt. | | ** |
| Josie | | 11 | 18 29 | | - 12 | | 90 32 | 11 | tug priv. yacht | : | ** |
| Daisy Moore | | ,,, | 18 | | 16 | | 48 | | tug | , | ** |
| Daisy Moore | 1 | 1, | 23 | 10 | $\cdot \tilde{00}$ | 5 | 80 | | priv. yacht | ; | |
| Gem | 1 | | 23 | 11 | .08 | 5 | 88 | " | 11 | | ** |
| Gem | 35 | | 22 | 59 | 91 | 9 | 79 | | pass. & frt. | | H |
| Chieftain | 1 | | 22 | | 26 | | 88 | | tug | | |
| Alma T | | " | 23 | | 78 | | 28 | ſ | | | ** |
| I-otta S | : 20 | " | 29. 29. | | ·03 ·01 | | $\frac{84}{24}$ | " | pass, & frt. | | ** |
| Gordon M Empress | | June | 2 | 129 | | | | 11 | tug | | ** |
| дици СББ и и и и и и и и и и и и и и и и и | | " une | 25 | 95 | · 83 | | 08 | ", | pass. & frt. | | " |
| Rambler | | Mav | Zi) | | | | | | | | |
| $\mathbf{Rambler} \dots \dots$ | | May | 27 | | 23 | | 60 | | | | 11 |
| Rambler Nora D. L. Mather Regina | | " | | 20 103 | 23 | 6 13 | 60 | " | tug | | " |

Steam Vessels Inspected, &c.—Keewatin, Manitoba and North-west Territories Division—Concluded.

BOILERS, MACHINERY AND HULL INSPECTION-Concluded.

| Name of Vessel. | of Vessel. Number of Date Certificate Expires. Allowed. | | Gross Tons. | Gross and Tons. | | Tonnage Dues and In- spection Fees Paid. | | Class of Vessel and where emplo | | | | |
|----------------------|-----------------------------------------------------------|----------|----------------|-----------------|----|------------------------------------------------------|-----|---------------------------------|-----------|--------|----------|---------|
| | | 1900 |). | | | \$ c | ts. | | | | • | |
| Jenny Lind | | May | 29. | | 81 | | | | priv. ya | cht L | ake of t | he Woo |
| Hudson Bay Messenger | • · · • • • • • • | 10 1 | 29 | 5. | | | 40 | | +1 | | ** | |
| Princess | | | 27 | 7. | | | 64 | | tug | | ** | |
| Spray | | | 30 | 8. | 98 | 5 | 72 | | 11 | | ** | |
| Sultana | | June | 2 | 3. | 35 | 5 | 24 | 0 | priv. ya | cht | ** | |
| Heather Bell | 20 | | 5 | 21 | 18 | 6 | 68 | 11 | pass. & | frt. | " | |
| | | | 5. | 131 | 03 | 15 | 48 | Side-pa | iddle, tı | 10 | | |
| Zephir | | Not iss | | 19 | 27 | | | Screw, | | -0 | | |
| Galetia | | June | 22 | 46 | | | 68 | | | Lake | e Wabig | oon. |
| Wm. Whyte | • • • • • • • • • • • | June | 8 | 17 | | | | | | | abigoon | |
| | 10 | une | 8 | 7. | | | 64 | | pass. | | abigoon | • |
| Widgeon | | 1 | 9 | 16. | | | 36 | | | nort | h shore, | LakaS |
| James Mayhew | | " . | 13 | 86 | | - | 96 | | pass. & | | n snore, | Lake C |
| Mary Ann | 20 | | 12 | 47 | | | 76 | | pass. w | tug | | |
| Siskiwett | | | 14 | 43. | | | 52 | | | | " | " |
| Georgina | | | 15 | | 60 | | 64 | | fish tug | | | 11 |
| Almedia | | | | | | | 32 | | | | alam | u |
| Kate Marks | | - ". · · | 16. ; | 54 | | 9 | 32 | 1 | tug, La | | | T . 1 C |
| Maud C | | Not 188 | suea | | 16 | · · · · · <u>·</u> | | " | - | , Lort | h shore, | Lakes |
| Minota | | | 17 | 34 | | | 80 | | 11 | | 11 | 11 |
| Rosey May | | | 17 | 3. | : | 9 | 32 | 11 | . " | | . " | 11 |
| Messanaubie | | Not iss | sued | 15. | | | | 11 | tug, Do | og_La | ke. | |
| Arcadia | | June : | 20 | 23 | | | 85 | | fish tug | , Lak | e Super | ior. |
| Gladys | | Not iss | sued | | 95 | | 64 | | 11 | | 11 | |
| Fida | | June : | 21 | 2. | 37 | 5 | 16 | 11 | ** | | ** | |
| Brothers | | | 22 | 17 | 50 | 6 | 44 | 11 | ** | | 11 | |
| Annie Mc | | | 23 | 13 | 42 | 6 | 04 | 11 | private | vach | t, Thun | der Ba |
| Swan | | 1 | 24 | 7. | 76 | 5 | 80 | .,, | fish tue | . Lak | e Super | ior. |
| Minnehaha | | | | | 42 | | 24 | | tug, La | c des | Mille L | acs. |
| Circe | , | 11 | | | 83 | | | ,, | 11 | | 11 | |
| Salty Jack | | | | 44. | | 8 | 60 | | tug La | ke Si | merior | |

GEO. P. PHILLIPS, Steamboat Inspector.

Steam Vessels Inspected in Canada but Registered elsewhere, for the Year ended June 30, 1899.

KEEWATIN, MANITOBA AND NORTH-WEST TERRITORIES DIVISION. BOILERS, MACHINERY AND HULL INSPECTION.

| Name of Vessel. | Number of Passen- gers Allowed. | Date Certificate Expires. | Gross Tons. | Tonnage Dues and In- spection Fees Paid. | Class of Vessel and where employe |
|-----------------|---------------------------------------------|---------------------------------|----------------|------------------------------------------------------|------------------------------------------------------|
| Hiram H. Dixon | | 1900. June <i>2</i> 7 | 329 00 | \$ ets. | Passenger and freight, Port Arthur and Duluth, Minn. |

GEO. P. PHILLIPS, Steamboat Inspector.

Steam Vessels not Inspected for the Year ended June 30, 1899.

KEEWATIN, MANITOBA AND NORTH-WEST TERRITORIES DIVISION.

BOILERS, MACHINERY AND HULL INSPECTION.

| Name of Vessel. | Gross Tonnage. | Registered Tonnage. | Remarks. Why not Inspected and Class of Vessel. |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|-------------------------|--------------------------------------------------|
| Queen Ethel Widgeon. Aurora Lady Ellen Isabelle Beaver. Otter Norah Ida Harry Montgomery Zena. Una Northern Bell Klondyke. Wm. Cross. Ethel Banning Sunbeam. Elenore Lily Caro Dolphin Ida Sparrow Graham. St. Joseph. Athabasca. Alpha Josie | 14 47 12 63 18 57 49 28 360 19 27 06 166 73 | 17:14 1:56 141:43 | Stern paddle, too far to go this year. |
| Uncle Sam. Daisy Bell. Nensongis Total | 7.79 7.65 7.06 | 5·27 6·12 5·20 | Screw, freight "Stern-paddle " |

GEO. P. PHILLIPS, Steamboat Inspector.

68 VICTORIA, A. 1900

STATEMENT of the number of Steam Vessels added to the Dominion during the Year ended June 30, 1899; their Class and Horse-power; whether of Wood or Iron; their Gross and Registered Tonnage; where built; and where and how employed.

| | and the second | The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon | The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s | WEST O | NTARIO 1 | WEST ONTARIO DIVISION. | |
|-----------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------------------|------------------------------------------|-----------------------------|
| Name of Vessel. | Horse- power. | Class. | Wood, Iron Gross Registered or Steel. Tonnage. Tonnage. | Gross Tonnage. | Registered Tonnage. | Where Built. | Where and how employed. |
| | | | | | | | |
| Annie C. Hill | 1.5 | Screw Wood | Wood | 14 | 6 | 9 Owen Sound | Lake Simcoe, yacht. |
| Wanda. | 9.95 | : | Composite. | 12 | 30 | 8 Toronto | Muskoka Lakes, yacht. |
| Allena May. | 1.63 | : | Wood | 16 | 11 | 11 Walkers Point | " " tug. |
| Wawonaissa | .23 | : | : | t- | ₹ | 4 Milford Bay | " yacht. |
| J. S. Blazier | 16.46 | : | : | 88 | 3 | 60 East Saginaw, U. S Georgian Bay, tug. | Georgian Bay, tug. |
| Edna | 3.33 | : | : | 52 | 30 | 30 Parry Sound | и n passenger. |
| Dredge No. 9. | 4.8 | Dredge | : | 187 | 127 | 127 Lockeport, U.S | Owen Sound Harbour, dredge. |
| Thos. Maitland | 30.83 30.83 | Screw | : | 107 | 75 | 75 Owen Sound | Georgian Bay, tug. |
| Una | 1.63 | : | : | 22 | 15 | 15 Peckskill, U. S | " yacht. |
| | 71.83 | | | 209 | 330 | | |

JAMES JOHNSTON.

Toronto.

SESSIONAL PAPER No. 11 STEATEMENT of the number of Steam Vessels added to the Dominion during the Year ended June 30, 1899; their Class and Horsepower; whether of Wood or Iron; their Gross and Registered Tonnage; where built; and where and how employed.

| -91 | | | | | | |
|------------------------------|--------------|----------------------------------------|-------------------|------------------------|-------------------------------------------|---------------------------------------------|
| Name of Vessel. Horse-power. | Class. | Wood, Iron Gross or Steel. Tonnage. | Gross Tonnage. | Registered Tonnage. | Where Built. | Where and how employed. |
| | | | | | | |
| Frank G. McAulay 6.53 | Screw | Wood | £ | 83 | 29 Saugeen | Lake Huron, fishing tug. |
| Huron 8.53 | : | : | 53 | 37 | 37 Goderich | " tug |
| Lena. 2.13 | : | : | 14 | œ | 8 St. Williams | Long Point Bay, yacht. |
| Verva4.80 | : | : | 55 | 37 | Wahnapitae | 37 Wahnapitae Wahnapitae Lake, passenger. |
| Daniel Lamb 12.96 | Dredge | : | 253 | 18 | 18 Toronto Toronto Bay, dredge. | Toronto Bay, dredge. |
| Manolia | Screw | : | 9 | 4 | = | Lake Ontario, yacht. |
| Toronto | Paddle Steel | Steel | 2,779 | 1,652 | | Prescott and Toronto, passenger. |
| Urania 76.80 | = | Wood | 868 | 424 | 424 Milwaukee, U. S Lake Erie, passenger. | Lake Erie, passenger. |
| Victoria | Screw | | 181 | 108 | Toronto | 108 Toronto Ottawa and Montreal, passenger. |
| 402.81 | 1 | | 4,282 | 2,317 | | |

Steamboat Inspector, Toronto. JOHN DODDS,

131

ORIA, A. 1900

STATEMENT of the number of Steam Vessels added to the Dominion during the Year ended June 30, 1899; their Class and Horse-power; whether of Wood or Iron; their Gross and Registered Tonnage; where built; and where and how employed.

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| | | | | | | | ٠. | | | | | 63 | VICTO |
|-------------------------|------------------------------------------------------------|---------------------------------------|------------------------------------------|-----------------------|------------------------|----------------------------------------------|-------------------------|-------------------------------------------------|------------------------------------------|------------------------------------------------------------|------------------------------------------|-----------------------------------|----------|
| Where and how employed. | 17.63 Rindsall (Int. Passenger, Rice Lake and tributaries. | | Spoon dredge, canals. | | = | Tug, St. Lawrence River. | Freight, " " | Passenger, Lake Ontario and River St. Lawrence. | Pleasure yacht. | 2.99 Ottawa, Ont Passenger, Carleton Place and Innesville. | Tug, Counties Victoria and Peterborough. | Passenger, " " | |
| Were Built. | Birdsall (Int. | · · · · · · · · · · · · · · · · · · · | 183.15 Point Levis Spoon dredge, canals. | | 134 85 Morrisburg, Ont | 17.94 Kingston, Ont Tug, St. Lawrence River. | 88.43 Cape Vincent, U.S | 373 87 Picton, Ont | 3.80 Oliver's Ferry, Ont Pleasure yacht. | Ottawa, Ont | 57 64 Lindsay, " | 19.42 Bridgenorth, Ont Passenger, | |
| Registered Tonnage. | 17.63 | 3 | 183.15 | 117 01 | 134.85 | 17.94 | 88.43 | 373.87 | 3.80 | 5.99 | 57.64 | 19.42 | 1,016·73 |
| Gross Tonnage. | 60 - 46 | 70 00 | 355 39 | 223.62 | 220.90 | 36.42 | 122.43 | 200.56 | 2.29 | 3.76 | 91.20 | 32.95 | 1,818·80 |
| Wood, Iron or Steel. | 1 | : | = | : | : | : | : | : | : | : | : | : | |
| Class. | A money | waron | 13.00 Non-prop'l'g | = | = | 6.53 Screw | : | 61.60 Paddle | 1.20 Screw | : | 6.66 Paddle | 2.70 Screw | |
| Horse- power. | | | | 09.6 | 13.00 | 6.53 | 4.80 | 09.19 | 1.20 | 0.53 | 99.9 | 2.70 | 121 · 49 |
| Name of Vessel. | 1 : 0 | Kain DOW | Dredge "Sir Hector" | Dredge "Central City" | Dredge "Pontiac" | Ruth | Alberta | Argyle | Menonah | Lillian B | Beaver | Lady of the Lake. | |

Steamboat Inspector. THOMAS P. THOMPSON,

SESSIONAL PAPER No. 11 STATEMENT of the number of Steam Vessels added to the Dominion during the Year ended June 30, 1899; their Class and Horse-power; whether of Wood or Iron; their Gross and Registered Tonnage; where built; and where and how employed.

| Horse- Power. 16.60 Paddla 13.27 Sorew 1.66 " | - | - | | | | |
|--------------------------------------------------|-------------------|-------------------------|----------|------------------------|-----------------------------------------|-------------------------------------------------------|
| 16·60 Paddli 13·27 Sorew 1·66 " | | Wood, Iron or Steel. | Gross I | Registered Tonnage. | Where Built. | Where and how employed. |
| 16·60 Paddll 13·27 Sorew 1·66 " 10·08 " | | | | • | | |
| 13.27 Sorew 1.66 " 10.08 " | Wo | | 412.89 | 236.22 | 236.22 Temiscamingue | Lake Temiscamingue, passenger. |
| 1.66 " 10.08 " | : | : | 38 . 44 | 22.21 | 22.21 Chicago, U. S | River yacht. |
| 10.08 | : | : | 15.37 | 12.49 | North Bay | 12.49 North Bay North Bay and South River, passenger. |
| 6.5 | : | : | 41.07 | 27 - 93 | 27.93 Sorel River tug. | River tug. |
| Grain Elevator No. 10 10 W " | Steel | | 212.60 | 130.42 | 130.47 Montreal | |
| Grain Elevator No. 16 16.00 " | = : | : | 210.31 | 128.92 | : | : |
| Dredge Trenton 6.50 Sp'n dred | Sp'n dredge. Wood | pc | 100.00 | | Morrisburg Rivers, dredging. | Rivers, dredging. |
| Dredge I. X. L 13 06 ". | = | : | 100.00 | : | Welland | 2 |
| Hebron 7.50 Screw | : | : | 148.97 | 98.10 | 98.10 Ottawa Rivers and Lakes, freight. | Rivers and Lakes, freight. |
| Mahigama | - <u>:</u> -: | : | 19.91 | 19.41 | 19 41 Pembroke | Pembroke and Fort William, passenger |
| Booth Wood | e Wo | - · · · · · ро | 346.55 | 218.33 | 218.33 Wisawasa | Wisawasa and Sturgeon Falls. |
| 124.85 | | | 1,646.11 | 894 08 | | |

WM. LAURIE. LOUIS ARPIN.

STATEMENT of the number of Steam Vessels added to the Dominion during the Year ended June 30, 1899; their Class and Horse-power; whether of Wood or Iron; their Gross and Registered Tonnage; where built, and where and how employed.

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| Name of Vessel. | Ногае- | Class. | Wood, Iron Gross Registered or Steel. Tonnage. | Gross Tonnage. | Registered Tonnage. | Where Built. | Where and how employed. |
|-----------------|--------|-------------------|------------------------------------------------|-------------------|------------------------|---------------------|---------------------------------------------------------------------|
| | | | | | | | |
| Richard | 9.88 | Screw Wood | Wood | 448.20 | 448.20 | Sorel, 1890 | 448.20 Sorel, 1890 Freight barge converted into a steam barge and |
| Теяв | 1.2 | : | = | 2.00 | 4.70 | 4.70 L'Islet, 1896 | Pleasure yacht on Lake Megantic. |
| Johnny H | 2.2 | : | : | 14.20 | 5.18 | 5.18 Quebec, 1899 | Quebec Harbour, tug. |
| Shamrock | 49.3 | : | : | 236.73 | 160.98 | | 1898Steam barge (screw) for buoy service between |
| Frontenac | 97.0 | Twin screw. Steel | Steel | 303.63 | 216.47 | 216·47 Lévis, 1899. | Quebec and Montreal. Tug, freight, between Quebec and St. Romuald. |
| Robert McKay | 42.68 | Screw | : | 128.88 | 87 - 43 | 1899 | Montreal and harbour tug, attending dredges. |
| Kiskissing | 1.16 | : | Wood | 3.19 | 3.30 | Island of Orleans | 2:90 Island of Orleans Pleasure yacht, Lake Kiskissing. |
| Green | 0.3 | : | : | 3.95 | 3.72 | 1899 | Lake Edward. |
| | | | | 1,175.78 | 919.58 | | |

JOS. SAMSON, Inspector of Boilers and Machinery. PIERRE D. BRUNELLE, Hull Inspector.

i

| SESS | IONA | L PAPER No. 11 | | | | | | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------------------------------|----------------------------|-----------------------------------|----------------------|---------------------------------------------------|----------------------|---------------------------------------|----------------------|----------|
| STATEMENT of the number of Steam Vessels added to the Dominion during the Year ended June 30, 1899; their Class and Horse-power; whether of Wood or Iron; their Gross and Registered Tonnage; where built, and where and how employed. | | Where and how employed. | Freight and tug, coasting. | Passenger and tug, La Have River. | " coasting. | Freight and tug, coasting. | Fishing boat " | Passenger, coasting, late "Westport." | 2 | |
| during the Year ende l Tonnage; where built | IVISION. | Where Built. | 42.19 Cheverie, N.S. | 37.76 La Have, N.S | 78.08 Lockeport, N.S | 32.48 Centreville, N.S Freight and tug, coarting. | 16.96 Liverpool, N.S | 55.65 Meteghan, N.S | 49.01 Hantsport, N.S | |
| ominion Registered | NOVA SCOTIA DIVISION. | Registered Tonnage. | 42.19 | 92.28 | 80.82 | 32.48 | 16.96 | 22.62 | 49.01 | 307 · 13 |
| to the D | NOVA S | Gross Tonnage. | 61.20 | 27.60 | 211.81 | 12.69 | 24.94 | 93.08 | 83.21 | 578 . 53 |
| sels added n; their Gr | | Wood, Iron Gross Registered or Steel. Tonnage. | Wood | : | : | : | : | : | : | |
| team Vess | | Славь. | Screw Wood | : | : | ; | : | : | : | |
| ser of S | | Ногае. | 16.60 | 18.37 | 25.67 | 8.16 | 8.16 | 13.20 | 16.66 | 134·12 |
| STATEMENT of the number power; wheth | | Name of Vessel. | Alpha | Trusty | Malcom Cann | Centreville | Serena E | Percy Cann | Nyanza | |

JOHN P. ESDAILE, Steamboat Inspector, Halifax, N.S.

STATEMENT of the number of Steam Vessels added to the Dominion during the Year ended June 30, 1899; their Class and Horse-power; whether of Wood or Iron; their Gross and Registered Tonnage; where built, and where and how employed.

BRITISH COLUMBIA.

| | | | | | | | A CONTRACTOR OF THE RESIDENCE OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY |
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-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name of Vessel. | Horse-power. | Слаже. | Wood, Iron or Steel. | Gross Tonnage. | Registered Tonnage. | Where Built. | Where and how employed. |
| Tyrrell. Flora. Emma Nott Nora. Joseph Clossett. Joseph Clossett. Anglian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivian Vivia | | Stern-wheel. Screw. Stern-wheel. Screw. Stern-wheel. Screw. Stern-wheel. Stern-wheel. Stern-wheel. Stern-wheel. Stern-wheel. Stern-wheel. Stern-wheel. Stern-wheel. Stern-wheel. Stern-wheel. Stern-wheel. Stern-wheel. | Wood Wood I. Wood I. Iron Wood Wood I. Wood | \$95.50.50.50.50.50.50.50.50.50.50.50.50.50 | 28. 58. 58. 58. 58. 58. 58. 58. 58. 58. 5 | Vancouver. Lake Bennett, B.C. Lake Bennett, B.C. Lake Bennett, B.C. Lake Bennett, B.C. Lake Bennett, B.C. Lake Linderman, B.C. Lake Bennett, B.C. Lake Bennett, B.C. Lake Bennett, B.C. Lake Bennett, B.C. New Westminster. New Westminster, B.C. Stockton-on-Tees, Eng New Westminster, B.C. Stockton-on-Tees, Eng New Westminster, B.C. Langley, B.C. Stockton-on-Tees, Eng New Westminster, B.C. Langley, B.C. Clangley, Westminster, B.C. Langley, B.C. Clangley, B.C. Clangley, Westminster, B.C. Langley, Westminster, B.C. Langley, Westminster, B.C. Langley, Westminster, B.C. Clangley, Westminster, B.C. Clangley, Westminster, B.C. Clangley, Westminster, B.C. Clangley, Westminster, B.C. Langley, Westminster, B.C. Clangley, Westminster, B.C. Stockton-on-Tees, Eng New Westminster, B.C. Clangley, Westminster, B.C. Clangley, Westminster, B.C. Clangley, Westminster, B.C. Clangley, Westminster, B.C. Clangley, Westminster, B.C. Clangley, Westminster, B.C. Clangley, Westminster, B.C. Clangley, Westminster, B.C. Clangley, Westminster, B.C. Clangley, Westminster, B.C. Clangley, Westminster, B.C. Clangley, Westminster, B.C. Clangley, Westminster, B.C. Clangley, Westminster, B.C. Clangley, Westminster, B.C. Clangley, Westminster, B.C. Clangley, Westminster, B.C. Clangley, Westminster, B.C. Clangley, Westminster, B.C. Clangley, Westminster, B.C. Clangley, Westminster, B.C. Clangley, Westminster, B.C. Clangley, Westminster, B.C. Clangley, Westminster, B.C. Clangley, Westminster, B.C. Clangley, Westminster, B.C. Clangley, Westminster, B.C. Clangley, Westminster, B.C. Clangley, Westminster, B.C. Clangley, Westminster, B.C. Clangley, Westminster, B.C. Clangley, Westminster, B.C. Clangley, Westminster, B.C. Clangley, West | Vancouver. Lake Bennett, B.C. Teslin Lake, B.C. Teslin Lake Bennett, B.C. Freight and passenger, Lake Bennett. Prospecting Yukon River. Reight and passenger, Lower Yukon. Freight and passenger, Lower Vukon. Freight and passenger, Lower Vukon. Freight and passenger, Lower Vukon. Freight and passenger, Lower Vukon. Freight and passenger, Lower Linderman. Lake Bennett, B.C. Tug, Lake Linderman. Lake Bennett, B.C. Tug, Lake Linderman. Lake Bennett, B.C. Tug, Lake Linderman. Lake Bennett, B.C. Tug and passenger, Lower Bennett. Atlin Lake. New Westminster, B.C. Freight and passenger, Kootenay Lake. New Westminster, B.C. Freight and passenger, Kootenay Lake. Stockhon-n-Tees, Bing New Westminster, B.C. Freight and passenger, Columbia River. Okanagan Landing, B.C. Freight and passenger, Kootenay Lake. Stockhon-n-Tees, Bing Passenger, Your River. Glasgow. Freight and passenger, Fraser River. Glasgow. Freight and passenger, Fraser River. Columbia, B.C. Freight and passenger, Fraser River. Glasgow. Freight and passenger, Fraser River. Columbia, B.C. Freight and passenger, Fraser River. Ballad, Ore, U.S.A. Freight and passenger, Fraser River. Freight and passenger, Fraser River. Chemainus, B.C. Freight and passenger, Fraser River. Fraser River. Freight and passenger, Fraser River. Chemainus, B.C. Freight and passenger, Fraser River. Freight and passenger, Fraser River. Fraser River. Freight and passenger, Fraser River. Freight and passenger, Fraser River. Chemainus, B.C. Freight and passenger, Fraser River. Fraser River. Fraser River. Fraser River. Fraser River. Fraser River. Fraser River. Fraser River. Fraser River. Fraser River. Fraser River. Fraser River. Fraser River. Fraser River. Fraser River. Fraser River. Fraser River. Fraser River. Fraser River. Fraser River. Fraser River. Fraser River. Fraser River. Fraser River. Fraser River. Fraser River. Fraser River. Fraser River. Fraser River. Fraser River. Fraser River. Fraser River. Fras |
| Tronpadont | 0 | - | | 5 | 3 | | |

| , Lake. River. ad. iiver. | |
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| Freight and passenger, Kootenay Lake. Tug, Kootenay Lake. Tug and passenger, Slovan Lake. Freight and passenger, Columbia River. Tug, West coast Vancouver Island. Tug, Fraser River. Freight and passenger, Yukon River. Freight, coast, B.C. | |
| an Lake. | |
| 147 43 65 43 Roseberry Slocan Lake 522 22 Nakhup, B.C. 19 50 Pontiac, Wash, U.S.A. 6 09 Tacoma, U.S.A. 364 22 Victoria, B.C. | - |
| 525 :94 [1 47 :43 147 :43 152 :22 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 19 :50 | 6,880.3 |
| 25.52 28.52 28.52 28.52 28.52 29.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 20.53 | 11, 310 · 33 6,880 · 34 |
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| | |
| 17.0 Stern-wheel. 27.3 Screw 19.4 " " " " " " " " " " " " " " " " " " " | |
| 0.2.2.1.7.1.2.1.2.1.2.1.2.1.2.1.2.1.2.1.2 | 741 .2 |
| | · |
| Moyie Ymir Syndon Minto Mist Mist Sybil Clansman. | <u>L</u> |

J. A. THOMSON, Steamboat Inspector, Victoria, B.C.

STATEMENT of the number of Steam Vessels added to the Dominion during the Year ended June 30, 1899; their Class and Horse power; whether of Wood or Iron; their Gross and Registered Tonnage; where built, and where and how employed. KEEWATIN, MANITOBA AND NORTH-WEST TERRITORIES.

| Name of Vessel. | Horse- power. | Classe. | Wood, Iron or Steel. | Gross Tonnage. | Registered Tonnage. | Where Built. | Where and how employed. |
|-----------------|------------------|-------------|-------------------------|-------------------|------------------------|------------------------------------|-------------------------------------------------------------------------|
| | | | | | | | |
| Maple Leaf | 13.5 | Screw Wood. | pooM | 8:18 | 20.03 | Rat Portage, Ont | 50.02 Rat Portage, Ont Pass. and freight, Rat Portage and Fort Francis. |
| Pearl | 1.2 | : | : | 10.00 | 2.22 | Buffalo, N.Y., U.S.A | 2.77 Buffalo, N.Y., U.S.A Private yacht, Lake of the Woods. |
| Balmoral | 2.13 | = | : | 36.94 | 23 . 22 | Rat Portage, Ont Pass. and freight | Pass. and freight " |
| Majestic | .≠ 3¢ | | : | 135 .22 | 94.93 | Fort Francis, " | " Rainy Lake. |
| Mohican | 0.9 | : | : | 34.20 | 24.08 | = | Tug, Rainy Lake. |
| Almedia | 80.0 | : | : | 89.2 | 4.36 | Port Arthur, " | Fish tug, Lake Superior. |
| Swan | 80.0 | : | : | 92.2 | 2.20 | = | = |
| Missanaubie | 1.5 | : | : | 15.09 | 8.81 | 8.81 Missanaubie | Tug, Dog Lake. |
| Gladys | 1.2 | : | : | 2.95 | 4.69 | 4.69 Jack Fish | Fish tug, Lake Superior. |
| Galatia | 9.0 | : | : | 46.10 | 30.58 | 30.26 Lake Wabigoon | Tug, Lake Wabigoon. |
| Princess Helen | 0.23 | : | Steel | 5.03 | 0.95 | 0.95 London, England | Pleasure yacht, Saskatchewan River. |
| Norah | 0.53 | : | Wood | 4.69 | 2.44 | 2.44 Edmonton, Alberta | Tug, Saskatchewan River. |
| Lillian B | 0.23 | : | : | 4.05 | 1.80 | = | Tug and freight, Mackenzie and Slave Rivers. |
| Otter | 2.4 | Stern-pad | : | 66.82 | 84.18 | : | " Saskatchewan River. |
| | | | | 472.54 | 278.51 | , | |

GEO. P. PHILLIPS, Steamboat Inspector.

STATEMENT of Steam Vessels lost, broken up or laid up as unfit for service, in the Dominion during the Year ending June 30, 1899, and where and how employed.

MONTREAL DIVISION.

| Name of Vessel. | Where and Ho | iGross | Class of Vessel and Reason of | | | |
|-----------------|--------------------------|----------|----------------------------------|--|--------------|-------------|
| | Employed | Tonnage. | Unfitness. | | | |
| Emerillon | Lower " " St. Lawrence " | " " | 15.00 116.28 5.03 32.00 | | ull unfit fo | or service. |

WM. LAURIE. LOUIS ARPIN.

STATEMENT of Steam Vessels lost, broken up or laid up, &c.—Continued. QUEBEC DIVISION.

| Name of Vessel. | Where and How Last Employed | Gross Tonnage. | Class of Vessel and Reason of Unfitness. |
|-----------------|------------------------------------------------------------------------------------------|-------------------|---------------------------------------------|
| Acadian | Screw collier, Mont. & Sydney. Paddle, pass., between Roberval | 931 · 33 | Stranded and total loss. |
| Mistassini | and Grande-Decharge. | 248 · 79 | Burnt down at her wharf, Roberval |
| Lena | Screw, ferry between Megantic | | |
| | and Three Lakes | 22.05 | Decayed, unfit for service. |
| | Paddle, tug Quebec & Montreal | | 11 11 |
| | Screw, pass, and freight between Quebec and Netasquan Screw, wrecking schooner be- | 198.48 | Lost on White Island deef. |
| • | tween Quebec and Gulf | 59.70 | Lost on the Bay of Fundy. |
| Swan | Screw, pleasure yacht on Lake | i 5.10 | Decayed, unfit for service. |
| Canadien | Screw, pass., and tug between | ,, 13 | bookyed, difficulty service. |
| | Sorel and Lanaurac | | u u |

JOS. SAMSON,

Boiler and Machinery Inspector.

PIERRE D. BRUNELLE,

Hull Inspector.

STATEMENT of Steam Vessels lost, broken up or laid up, &c.—Continued.

WEST ONTARIO DIVISION.

| Name of Vessel. | Where and How Last | Gross | Class of Vessel and Reason of |
|-------------------------------------------------------------------------------------------|--------------------------------------------|-------------------------------------------------|--------------------------------------------------------|
| | Employed. | Tonnage. | Unfitness. |
| Northern Bell. Pacific Adam Ainslie. P. M. Campbell. Ann Long Rosamond Mascott Chicoutimi | Long Point Bay, yacht. Toronto Bay, ferry. | 514 918 57 49 45 23 49 110 | Screw, burned. """ " dismantled. """ Paddle, burned. |

JAMES JOHNSTON, JOHN DODDS, Toronto.

STATEMENT of Steam Vessels lost, broken up or laid up, &c.—Continued. EAST ONTARIO DIVISION.

| Name of Vessel. | Where and How Last | Gross | Class of Vessel and Reason of |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| | Employed. | Tonnage. | Unfitness. |
| Myrtle Empress of India | Cos. Victoria & Peterboro, pas. tug. London, O. & River St. L., pas. Carleton Place, passenger. River St. Lawrence, tug. | 27 · 46 579 · 05 67 · 94 | Screw, destroyed by fire. Paddle, hull used up. "enlarged and rebuilt. "hull made into a barge. Screw, hull used up. "" |

THOS. P. THOMPSON,

Steamboat Inspector.

STATEMENT of Steam Vessels lost, broken up or laid up, &c.—Continued. NOVA SCOTIA DIVISION.

| Name of Vessel. | Where and How Last | Gross | Class of Vessel and Reason of |
|-------------------------------------------------|--------------------|-----------------------|-------------------------------|
| | Employed. | Tonnage. | Unfitness. |
| UlundaBarcelona. Caber FeidhWestportSt. John | coasting. | 1,801 · 53 61 · 07 | Name changed to 'Percy Cann'. |

JOHN P. ESDAILE, Steamboat Inspector, Halifax, N.S.

STATEMENT of Steam Vessels lost, broken up or laid up, &c.—Continued. BRITISH COLUMBIA DIVISION.

| Name of Vessel. | Where and How Last | Gross | Class of Vessel and Reason of |
|------------------------------------------------------------------------------|---------------------|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Employed. | Tonnage. | Unfitness. |
| Fairy Queen City of Ainsworth Edgar Bon Accord. Gladys. Marquis of Dufferin. | Freight, coast, B.C | 24 94 193 49 165 13 84 15 211 23 629 33 | Steam schooner, boiler condemned. Stern-wheel, dismantled. foundered in gale. burnt and sunk. foundered in gale. foundered in gale. burnt, total loss. |

J. A. THOMSON, Steamboat Inspector, Victoria, B.C.

STATEMENT of Steam Vessels lost, broken up or laid up, &c.—Continued. KEEWATIN, MANITOBA AND NORTH-WEST TERRITORIES DIVISION.

| Name of Vessel. | Where and How Last | Gross | Class of Vessel and Reason of |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| | Employed. | Tonnage. | Unfitness. |
| Mountain Bell | Passenger, Devil's Lake Banff. Bow River Saskatchwan River. Tug, Lake Winnipeg Passenger, Red River. Freight, Saskatchewan River. Fish tug, Lake Superior. | 1·00 425·00 461·02 62·05 9·83 102·02 | Stern-paddle, unfit for service. Screw, hull converted into a barge. Side-paddle, hull broken up. \$tern-paddle Screw, hull broken up in ice. |

List of Certificates of Competency and Temporary Certificates granted to Engineers of Steamboats, during the Year ended June 30, 1899.

| Date of Certificate | | of Name. | | Gr a de. | Address. | Where Examination was Passed. | F |
|---------------------|-----|---------------------------------------------------------|--------------------------------------|-----------------|---------------------------------------|----------------------------------------|--------|
| - | 189 | 8. | | | | | * |
| 1 -Ju | ılv | 11 | Wm. Isaac Vester | Temporary | Blenheim Ont | Rondesu Ont | 2 |
| -1 | 11 | 11 | John Wm. McMillan | " | Niagara, Ont | Niagara, Ont. | 2 |
| | ** | 21 | Henry Good | " | Napanee, Ont | Kingston, Ont. | 2 |
| | ** | 21 | Wm. Powles | | Tyendinaga, Ont.' | " " | 2 |
| | ** | 21 | Mitchell Kinville | | Brockville, Ont | Ottawa, Ont. | 2 |
| | | | John Gonyea | | Belleville, Ont Smith's Falls, Ont | | 2 |
| . 1 | ** | 22 | Thos. M. Heard | 3rd Class | Vancouver, B.C | | 2 2 |
| | 11 | 29 | Richard Boyd | | | | 2 |
| · I | 11 | 29 | Pierre LeBlanc. | " | Carleton, Que | St. John. N.B. | 2 |
| 1 A | | 4 | Joseph Woodhouse | 4th Class ,. | Bracebridge, Ont | Pt. Carling, O. | 5 |
| | •• | 3 | Rodney Patnote | Temporary | Penetanguishene, Ont. | Toronto, Ont. | 2 |
| | ** | 11 | Oscar Earle | | Smith's Falls, Ont | Kingston, Ont. | 2 |
| 7 | ** | 20 20 | M. L. Crandell John Allan | " | Port Perry, Ont Pilot Bay, B.C | Nelson, B.C. | 2 2 |
| S | | | John Paul | | Newboro', Ont | Kingston, Ont. | 2 |
| <u>ا</u> | ** | 22 | George M. Beecher | | Brockville, Ont | Brockville,Ont | 2 |
| ı l | 11 | 22 | Timothy Whitred | 11 | Hastings, Ont | Hastings, Ont. | 2 |
| | 11 | 22 | Frank L. Shuring | | Sudbury, Ont | Wahnapitae. O | 2 |
| | " | 27 | Alex. Dupry | 2-4 01 | Pictou, N.S. | Pictou, N.S | 2 |
| ĮS∈ | - | 22 | James W. Gidley Charles Baker | Ath | Vancouver, B.C | | 5 |
| - 1 | ** | $egin{smallmatrix} 22\dots \ 22\dots \end{smallmatrix}$ | Wm. Carfrae. | | Victoria, B.C Vancouver, B.C | | 5 5 |
| -1 | " | 22 | Robert Henderson | | Nelson B C | Nelson R C | 5 |
| <u>ما</u> | | 22 | Isaac Whitworth | 3rd " | Ladners, B.C | Victoria. B.C. | 5 |
| . | ** | 22 | Robert Waterspoon | Temporary | Cornwall, Ont | Cornwall, Ont | 2 |
| | 11 | 22 | Alex. Anderson | " | Halifax, N.S | Halifax, N.S. | 2 |
| | ** | 22 | George H. Eisner | 104 Čl | T / " TO O" | | 2 |
| - I | " | 26 26 | Jean B. O. Gendron James Godfrey | 2nd " | Lévis, P.Q. | Lévis, P.Q | *1 |
| 4 3 | ** | 26 | John E. Hill | | Charlottetown, P.E.I Victoria, B.C | Victoria R.C. | 5 5 |
| - 1 | | 26 | John D. Fullerton | | Pictou, N.S. | Pictou, N.S | 2 |
| 3 | 11 | 27 | Robert Crawford | | Rat Portage, Ont | Rat Portage,O | 2 |
| 7 O | ct. | 1 | Fred. Van Norman. | 41 0 | " " | | 2 |
| | 11 | 7 | James A. Gill | 4th Class | | Victoria, B.C. | 5 |
| <u>. ا</u> | ** | $egin{array}{c} 7\dots \ 13\dots \end{array}$ | John V. G. Clark Patk. James Hunt | | St. John, N.B Brooklyn, N.Y | St. John, N.B. | 5 |
| | ** | 13 | Chas. H. Jennings | | Victoria, B.C. | Vancouver, BC | 5 5 |
| ~ ! | | 22 | W. J. Macfarlane | 2nd " U.K. | Vancouver, B.C | Victoria, B.C. | 5 |
| -i | 11 | 22 | George Allan | 4th " | Victoria, B.C | , , | 5 |
| | 11 | <u>27</u> | | 2nd " U.K. | Halifax, N.S | | 5 |
| ٠. | " | | James Young | 3rd Close | Gore Bay, Ont | | 2 |
| → | 11 | 27 28. | Roderick Morrison | Temporary | Combermere, Ont. | Victoria, B.C. Combermere O | 5 |
| | ov. | | John J. Ewing | 1st Class. U.K. | Halifax N.S. | Halifax, N.S. | 5 |
| . ! | 11 | 10. | John K. Sutherland | | Charlottetown, P.E.I | St. John, N.B. | 5 |
|) | ** | 10 | Albert Toller | 4th " | Victoria, B.C | Victoria, B.C. | 5 |
| | " | | John Armstrong | 4th " | New Westminster, B.C. | Vancouver, BC | 5 |
| | 1+ | | | 1st " U.K. | Montreal, P.Q | Montreal, P.Q. | 5 |
| 4 } | ** | 30 | John H. Jones Isaac N. Kendall | 3rd " | New Westminster, B.C. | Uanagunan BC | 5 |
| D | ec. | | | 4th " | Vancouver, B.C | | 5 5 |
| | " | | Alex. D. Cameron | 4th " | Chance Harbour, N.S. | Halifax, N.S. | 5 |
| -1 | ., | 13 | Francis Allard | 3rd " | Bonaventure, P.Q | Quebec | 5 |
| 3 | ** | 13 | Alfred Perron | 3rd " | Grondines, P.Q | Montreal | 5 |
| | | 13 | Thomas Stewart | 3rd | Arnarior (Int. | 1 | = |
| | 11 | 14 | George Edwards. Edward F. Barnes | 2ndClass II V | Annapolis, N.S | Halifax, N.S. | 2 |
| . 1 | •• | 16 | Robert Blair | lst " | | | 5 |
| . I | " | 27 | Hugh Harold. | | Rideau Centre, Ont | Kingston Ort | 5 |
| | 11 | 27 | M. F. Hennelly | | Victoria, B.C | Victoria D.C. | |

^{*} Exchanged Certificate.

List of Certificates of Competency granted to Engineers of Steamboats, &c.—Con.

| uncare. | Da o: Certi | | Name. | Grade. | | Address. | Where Examination was Passed. | F |
|---------|-------------------|--------------------------------------------------|---------------------------------------------|---------------------------|-------|-------------------------------------|----------------------------------------|---------|
| | 189 | 98. | | | | | | 8 |
| | Dec. | 27 | Jean Bordeleau | 3rd Class | | Roberval, P.Q | Quebec | 5 |
| 6 | " | $27 \dots 27 \dots$ | Elmer Hand | | • • • | Kamloops, B.C Victoria, B.C | Victoria, B.C. | 5 |
| 8 | " | | Frederick Webster | | | Vancouver, B.C | Vanco"ver, B.C | 5 5 |
| 9 | ** | | Alfred H. Evans | | | | 1 11 | 5 |
| 0 | 11 | | James R. P. Gaudin Adjutor Barras | | ٠٠٠ | Victoria, B.C | Victoria, B.C. | 5 |
| 12 | " | | Wm. John Guthrie. | 4th | | Village Lauzon, P.Q Meaford, Ont | Toronto | 5 |
| 1 | 189 | 9. | • | | | | | |
| 3 | Jan. | 4. | Chas. D. Cooke | 2nd Class U. | K. | Pictou, N.S. | Halifax, N.S. | |
| 4 | ** | | r red. Deaumont | 3011 11 | • • • | Tait, Ont | l'Poronto Ont | 5 |
| 5 6 | " | | H. A. McWilliam James Geo. Fisher | 4th " 3rd " | | Kingston, Ont Collingwood, Ont. | Kingston, Ont. | 5 |
| 7 | ** | | Robert H. Grierson | 4th " | [| 11 | | 5 |
| 8 | 11 | 17 | | 4th | | Little Current, Ont | | 5 |
| 9 | ** | | Victor W. Barnes Thomas W. Whitely | Temperary | K. | Hampton, N.B. Sombra, Ont. | St. John, N.B. | 5 |
| 0 | " | 17 | James H. Ewing | 2ndClass, U. | K. | Vancouver, B.C | Vanco'ver B.C. | 5 |
| 2 | 11 | 23 | Adélard Lapointe | 3rd " | | Village Lauzon | Quebec | 5 |
| 3 | ** | | Benj. Madigan | lat "U. | K. | Victoria, B.C | Victoria, B.C. | 5 |
| 4 5 | " | | Wm. Frederick Wilson Eugène Bélanger, jr | | • • • | Midland, OntVillage Bienville | Quebec | 5 |
| 6 | 11 | 27 | Alphonse Desrocher | | | St. Agapit | " | 5 |
| 7 | U | 27 | Joseph Blanchet | | | Village Lauzon | " | 5 |
| 8 | Feb. | $\frac{27}{7}$ | Frederick Henderson Arthur Martin | | | Kingston, Ont Village Bienville | | ٠, |
| U | 11 | | G. A. Atkinson | | | McLeod's Mills, N.B | | 5 |
| 1 | ** | 7. | Arthur Abbey | 4th " | . | Toronto, Ont | | 5 |
| 2 | 11 | 14 | Sam. C. Beatty | 2nd | | Collingwood, Ont | Trakkan N. O | 5 |
| 3 | 11 | 14 | James C. Kelly. | | | St. Peters, N.S | Haniax, N.S. | 5 |
| 5 | ** | 14 | Wm. Stockall | | | Allenford, Ont | | 5 |
| 6 | 11 | 16 | N. Protomastro | | • • • | Village Bienville | Quebec. | 5 |
| 8 | " | 16 | Frederick Spain Thos. Theriault | | | Windsor, Out Village Lauzon | Quebec Ont | 5 |
| 9 | 11 | | Albert Martin | | | Sorel, P.Q | S rel, P.Q | 5 |
| 0 | 11 | | Hawman Arthur | 4th " . | • • • | Collingwood, Ont | Toronto, Ont. | 5 |
| 1 2 | " | 16 16 | Andrew Townsley | | • : • | Arrowhead, B.C | Victoria, B.C. | 5 |
| 3 | 11 | 20 | Robert S. Riley | 1 4 . 3 | ! | Vancouver, B.C | " : | 5 |
| 4 | 11 | 20 | Wm. Dunn. | | ٠٠. | Sorel, P.Q | Sorel, P.O | 8 |
| 5 | 11 | $egin{array}{c} 22 \dots \ 22 \dots \end{array}$ | Wm. Tilley Pitt Chas. E. Dalton | $\frac{3rd}{2nd}$ " U . | K | St. John, N.B Fairville, N.B | St. John, N.B. | 5 |
| 7 | " | 22 | Elijah Y. Drinkwalter | | | Wiarton, Ont | Toronto, Ont. | 5 |
| 18 | 11 | 22 | Walter Brydon | 4th | | Bracebridge, Ont | (,, | 5 |
| 9 | u . | $egin{array}{c} 22 \dots \ 22 \dots \end{array}$ | James Morrey | | | Denorwic, Ont | | 5 |
| ĭ | " | 24 | Wm. Tracey | | - 1 | Toronto, Ont | Toronto, Out | 2 |
| 2 | " | 24 | John J. McDonald | | | Charlottetown, P.E.I | St. John, N. B. | 2 |
| 3 | ** | | Hedley V. Pye | : ; |] | Hopewell Cape, N.B | " . | 2 |
| 14 | 11 | 24 | Edgar P. Strang L. P. Lavalee | 4th Class. | 1 | Charlottetown | Sorel. " | 2 |
| | Mar. | 2 | Wm. H. Turnbull | 4th Class | i | Victoria, B.C | Victoria R C | 5 |
| 7 | *** | 2 | James Colin | Znd " | | Sorel, P.Q | Omehee | 5 |
| 8 | " | 2 6 | Burton F. Dunn | 3rd " 2nd " | ! | vancouver. D.C. | Victoria R C | 5 |
| 9 | 11 | 6 | John J. Mark | | | Sorel, P.Q. Empress of Japan | | 5 |
| 1 | ** | 6 | Fred. W. Richardson | l'emporary | . 1 | LOTO 8 COVE N R | Q+ Tohm NID | ิด |
| 2 | ** | 10 | Hector Dow | 4th Class | 1 | Victoria, B.C. | Victoria RC | 5 |

^{*} Exchanged certificate.

† Second examination.

List of Certificates of Competency granted to Engineers of Steamboats, &c.—Con.

| uncare. | Da of Certif | • | Name. | Grade. | ${f A}{ m ddress}.$ | Where Examination was Passed. | Fee. |
|----------|--------------------|-----------|--------------------------------------------|-------------|-----------------------------------|----------------------------------------|------------|
| | 189 | 9. | | | | | \$ eta |
| 4 | Mar. | | James Lamb | | Vancouver, B.C | Vanco'ver, B.C | 5 00 |
| 15 | 11 | | | | | Victoria, B.C. | 5 00 |
| 6 | ** | 10 | Arthur Davis | Temporary | Poole's Resort, Ont | Kingston, Ont. | 2 00 |
| 17 | 11 | 12 | Arch. McLaren | 3rd | Wiarton, Ont | Toronto Ont | 5 00 |
| 9 | " | 13. | George North | 3rd , | Halifax, N.S. | Halifax, N.S. | 5 00 |
| 30 | 11 | 13 | Christian Knudsen | 1st " U.K. | Dartmouth, N.S | n | 5 00 |
| 21 | ** | | Clovis Bellefeuille, jr | Temporay | Valleyfield, P.Q | Montreal, P.Q. | 2 00 |
| 22 | . " | | John Leonard | | St. John, N.B | St. John, N.B. | |
| | April | 4 | Ovide Mongeon | 4th Class | Sorel, P.Q | | 5 00 |
| 24 | " | | Joseph Guilbault | | Towns Ont | | 5 00 |
| 25 26 | 11 | | H. G. J. Hawkins James D. Brown | | Toronto, Ont Cellingwood, Ont | | 5 00 |
| 27 | " | | John G. Clark | 2nd " | Charlottetown, P.E,I | Halifax. N.S. | 5 00 |
| 28 | ** | | Frank McDonald | Temporary | Cornwall, Ont | Montreal, P.Q. | 2 00 |
| 29 | 11 | 4 | Frank Naas | | Lunenburg, N.S | Halifax, N.S | 2 00 |
| 30 | ** | | James Campbell | | St. John, N.B | | |
| 31 | 11 | | Timothy Whitred | | Hastings, Ont | | |
| 32 | 11 | | James Logan | | Pererboro, Ont Brockville, Ont | | 2 00 |
| 34 | " | 6 | Henry A. Dawson | 4th Class. | St. Catharines, Ont | Toronto Ont | 5 0 |
| 35 | " | 6 | Richard McLaren | 4th " | Windsor, Ont. | | |
| 36 | ** | | Walter Scott | | | 11 . | 5 0 |
| 37 | 21 | | Andrew R. Anderson | | Victoria, B.C. | | 5 0 |
| 38 | " | | David Smith | | Rat Portage, Ont | | 5 0 |
| 39 10 | ** | | James E. B. Tyson | | Victoria, B.C | | 5 0 |
| 11 | ** | | David P. Wilson Duncan A. Macdonald | | Metlakatla, B.C Windsor, Ont | Windsor Ont | 5 0 |
| 12 | ** | | Alex. Fenton | | Victoria, B.C | Victoria, B.C. | |
| 13 | 11 | | Alfred F. Laurie | | Victoria, B.C Montreal, P.Q | Montreal, P.Q. | 5 0 |
| 14 | ** | 6 | Wm. J. McIntyre | Temporary | Port Sydney, Ont | Toronto, Ont | 20 |
| 15 | ** | | Richard Dennison | | | | 5 0 |
| 16 17 | " | | John H. SmithAugust Pendola | | Vancouver, B.C. | | 5 0 5 0 |
| 18 | 11 | | Jos. A. McGuire. | | " | | 5 0 |
| 19 | 11 | | Eugène Bélanger | | Village Bienville | Quebec | 5 0 |
| 50 | ` | 26 | Louis Ouellet | 2nd " | Village Lauzon | " | 5 0 |
| 51 | 11 | | Louis Ouellet | Temporary | Rat Portage, Ont | RatPortage,O. | 20 |
| 52 | ** | 26 | William Terry | - 1 0 IT IZ | Little Current, Ont | Toronto, Ont. | 2 0 |
| 53 54 | ** | 27 27 | Geo. Henry Parker Ernest Goldthorp | 4th | Halifax, N.S | Halifax, N.S. | 5 0 |
| 55 | " | 27 | Joseph H White | 2nd U.K. | Halifax N.S. | Halifax N.S. | 5 0 |
| 56 | | 27 | Joseph H. White George Bouther | 3rd Class | Sorel, P.Q | Sorel, P.O | 5 0 |
| 57 | ** | 27 | Alex. McIvor | 3rd " | Collins Inlet, Ont | Toronto, Ont . | 5 0 |
| | May | 4 | Théophile Bellefeuille Geo. W. Mitchell | Temporary | Rat Portage, Ont | KatPortage,O. | 2 0 |
| 59 | •• | 15 | Geo. W. Mitchell | 4th Class | Montreal, P.Q | Montreal, P.Q. | |
| 60 61 | 11 | 15 | Wm. Drury | 3rd " | Chute à Blondeau, Ont. | Ottawa | 5 0 |
| 62 | " | 15 15 | F. St. Germain | 3rd | Rigand, P.Q | Montreal P.O. | |
| 63 | 11 | 15 | G. Bellefeuille | Temporary | Rat Portage, Ont | Rat Portage, O. | . 20 |
| 64 | - 11 | 15 | James C. Ollard | | Victoria, B.C | Vanco'ver, B.C | 5 0 |
| 65 | - 11 | | Jos. H. Daball | | Parry Sound, Ont | Parry Sound, O | 2 0 |
| 66 | 11 | | Thomas Doan | Temporary | Sombra, Ont | Sombra, Ont. | 2 0 |
| 67 | 11 | | J. M. Pendrigh | | Yarmouth, N.S | | 5 0 |
| 68 69 | " | | Clark W. Gamble Wm. Morck | | Victoria, B.C | 1 | 5 0 |
| 70 | " | | Joseph W. Davies | | | | 5 0 |
| 71 | 11 | | John Monamy | | Halifax, N.S. | Halifax, N.S. | |
| | June | | Hugh Gold | 11 | Rat Portage, Ont | | |
| 73 | 11 | 7 | Moïse Racette | | Hull, P.Q | Hull, P.O | 2 0 |
| 74 | 11 | <u>7</u> | Rosarie Derry | | Rat Portage, Ont | Rat Portage | 2 (|
| 7ŏ | 11 | 7 7 | Geo. Thomas Leach Clement Mondeville | " | Montreal, P. Q Thurso, P. Q | Montreal, P.Q. | 2 (|

SESSIONAL PAPER No. 11

List of Certificates of Competency granted to Engineers of Steamboats, &c.—Con.

| Number of Cer- | Date of Certificate | Name. | Grade. | Address. | Where Examination was Passed. | Fee. |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| | 1899. | | | | | \$ ets. |
| 2477 2478 2482 2481 2482 2483 2484 2485 2496 2490 2490 2490 2492 2493 2494 2495 2496 2497 2498 2490 2500 2502 2503 | " 7 " 8 " 12 " 12 " 12 " 12 " 12 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 " 13 | Frank H. Judge John Hislop James F. Paige Peter F. Goldthorpe Rodney Patnote Alfred McCall Joseph Bark F. J. Coleman Henry W. Clark Wilmott Johnson Arthur McCann Richard B. Proutt Andrew Lajeunesse John F. Roblim Wm. Albert Rice James Grier Charles Taylor F. G. Wilbur Frederick C. Cone George Field Charles McLean Oscar Earle Alphonse Hamel Albert Wheeler. Emil Peterson Achille Fontaine. | 3rd "U.K. Temporary """""""""""""""""""""""""""""""""" | Winnipeg, Man Truro, N.S Rat Portage, Ont Parry Sound, " Rat Portage, Ont Newboro, Ont Cornwall, " Rat Portage, Ont St. John, N.B. Rat Portage, Ont Wallace, N.S Marmora, Ont Wellace, N.S Marmora, Ont Belleville, " Buckingham, P. Q. New Westminster Alberni, B.C. Owen Sound, Ont North Bay, " | Selkirk, Man. Halifax, N.S. Rat Portage. Toronto, Ont. Rat Portage. Kingston, Ont Rat Portage. St. John, N.B. Rat Portage. Halifax, N.S. Marmora, Ont Peterboro, Belleville, Montreal, P.Q Vanco'ver, B.C Victoria, Toronto, Ont. North Bay Wabigoon, Ont Kingston Wahnapitae, O Kingston, Ont. Victoria, B.C. | 5 00 5 00 2 00 2 00 2 00 2 00 2 00 2 00 |

APPENDIX No. 13.

STATEMENT giving Names and Stations of Light-keepers, &c., in the Dominion.

ABOVE MONTREAL.

| Name. | Station. | Appointed. | Salary. |
|------------------------------------------------|-----------------------------------------------------|-----------------------------------------|-------------------|
| | | | \$ cts. |
| Acton, Jas. A | | April 12, 1890 | 250 00 |
| Armstrong, John | | 28, 1894 | 200 00 |
| Alexander, Andrew | Lamb Island | May 1, 1897 | 400 00 |
| Baker, Henry F | Clapperton Island. | December 2, 1895 | 350 00 |
| Boyd, Robe t P | Cole Shoal | April 9, 1884 | 250 00 |
| Burlingham James | Griffith IslandPoint Peter Light and Fog Alarm | May 14, 1889 1, 1876 | 350 00 650 00 |
| Butler, Silas L | | July 15, 1897 | 300 00 |
| Baxter, Wm. I | Gin Rock | November 23, 1885. | 300 00 |
| | Nipissing, South River Beacon Light | May 22, 1889 | 80 00 |
| Borron, Edward | French River | September 13, 1875. | 500 00 |
| Boucher, François | Point à Cadieux Aylmer Island | July 26, 1892 November 17, 1882 | 150 00 175 00 |
| Bamford, Robert | | June 21, 1888 | 250 00 |
| Bertrand, Félix | | March 16, 1885 | 100 00 |
| Boyd, Wm. M | Kagawong | April 13, 1893 | 72 00 |
| Boyer, Napoléon | | 13, 1898 | 300 00 |
| Boyter, A. B | | January 3, 1898 | 200 00 |
| Brown, Adam | Red Rock, Parry Sound | May 25, 1899 | 450 00 |
| Campbell, Thos | Burlington Beach | April 1, 1875 | 350 00 |
| Collins, Allen | Christian Island | March 25, 1891 | *425 00 |
| Cross, Manly R | Gananoque Narrows and Jack Straw Shoal. | August 25, 1896 | 480 00 |
| Campbell, Robert | Goderich Isle of Coves | June 9, 1886 | 400 00 +650 00 |
| Currie, Geo | Thunder Cape | April 1, 1878 May 17, 1892 | 600 00 |
| Craig, Wm | Long Point Light and Fog Alarm | June 9, 1897 | 700 00 |
| Cullis, William | Manitoulin Island | October 1, 1877 | 740 00 |
| Campbell, John | McTavish Point | November 18, 1896. | 100 00 |
| Clark, Arthur Geo | | July 5, 1890 | 500 00 |
| Crevier, Dolphis Cartier, H. J | Point Claire River Thames | October 19, 1884 | 200 00 425 00 |
| Cooper, John | | 14 1882 | 300 00 |
| Cosgrove, George | Victoria Island, Lake Superior | November 14, 1889. | 350 00 |
| Columbus, Christopher Conover, Forrest H. C | Penetanguishene and Whiskey Island | March 18, 1893 | 300 00 |
| Conover, Forrest H. C | Leamington | April 24, 1883 June 1, 1881 | 150 00 |
| Covert, John | Belleville | | 200 00 |
| Cox, John | | 17 1897 | 100 00 100 00 |
| Connors, Frank | | 77, 1897 October 13, 1898 | 200 00 |
| Chase, H. J | | November 4, 1898 | 150 00 |
| Davieux, Joseph | Corbay Point, Batchewana | May 97 1800 | 350 00 |
| Durnan, George | | 31, 1854 | 625 00 |
| Daoust, Daniel | Lake St. Louis Light-ship No. 2 | October 20, 1897 | 300 00 |
| Dickinson, Wm. E | Long Point, West End | October 20, 1897 September 30, 1879. | *400 00 |
| Davieau, Hyacinth | Michinicoten Island | July 1, 1881 | 400 00 |
| Daoust, Dosithée | McKie's Point | September 22, 1893. | 175 00 |
| Davis, John H Dick, Andrew | | August 10, 1880 | 350 00 400 00 |
| Dutcher, Samuel | Meaford | May 7, 1877 | 150 00 |
| Davis Henry | Tobermory | November 23, 1895. | 130 00 |
| Darling, Thomas. | Nipissing, South-east Bay Beacon Light Lake Rosseau | July 1, 1890 | 50 00 |
| Dixon, Joseph G. | Lake Rosseau | 21, 1890 | 100 00 |

^{*}Allowance \$10. †Allowance \$100.

STATEMENT giving Names and Stations of Light-keepers, &c.—Continued.

ABOVE MONTREAL—Continued.

| Name. | Station. | Appointed. | Salary. |
|-----------------------------------------|-----------------------------------------------------------|-----------------------------------------------|----------------------------|
| • | | | \$ cts. |
| | Potter's Island Pole LightCaribou Island, Lake Superior | | *10 00 800 00 |
| Ead, Mrs. C Eby, Henry R. A | Port Stanley | August, 1890 September 14, 1891. | 300 00 75 00 |
| Felan, Maurice | Oakville PierPort Colborne Range Lights and Fog Alarm | April 28, 1894 | 150 00 |
| Fellowes, W. R | Rondeau Harbour | 11, 1865 December 18, 1888 May 27, 1890 | 550 00 300 00 140 00 |
| Grignon, Xavier | Beauharnois | March 16, 1885 | †200 00 |
| Gloude, Benjamin Grubb, W. A | Pointe Claire Point Pelee Reef Light and Fog Alarm | | 300 00 700 00 |
| Gillespie, Wm | Wolfe Teland | March 16 1995 | 250 00 |
| Gauthier. Charles | St. Placide | May 1 1874 | 100 00 |
| Gordon, Robert | Cobourg Pier | " 16, 1883 September 17, 1898. | 180 00 250 00 |
| Hackett, Andrew | Bois Blane | January 13, 1864 | 435 00 |
| Hudgins, James M | False Ducks | April 28, 1894 | 350 00 |
| Hamilton, John Hill, Thomas H | Hamilton's Island | July 1, 1877 | 130 00 325 00 |
| | Lonely Island | | 450 00 |
| Hunter, David | Port Dalhousie | October 29, 1879 | 350 00 |
| Hawkins, David B | Peninsula Harbour | August 31, 1891 | 400 00 |
| Huff, Thomas W | | July 25, 1894 | 550 00 250 00 |
| Hughes Wm | Thessalon | 1885 | 250 00 |
| Hughes, Amos | Red River Range Lights | May 10, 1899 | 250 00 |
| Hamilton, Thos | Pie Island, Port Arthur | April 15, 1899 | 75 00 |
| Irving, Mathew | Manitowaning | May 30, 1887 | 150 00 |
| Johnson, Isaac S | Cherry Island | November 5, 1883 | 300 00 |
| Jackson, Wm | Spectacle Shoal and Red Horse Rock Nigger Island Shoal | | 400 00 200 00 |
| Kinney, James | Gore Bay | July 27, 1895 | 350 00 |
| Kennedy, James | Allumette Island | May 23, 1887 | 100 00 |
| Lambert, Wm. McGregor. | Chantry Island | October 1, 1880 | 500 00 |
| Labelle, Louis | Deep River Island | May 5, 1897 | 100 00 |
| Laberge, Alfred Lamorandière, Pierre Ré | | January 26, 1866 | ‡240 00 |
| gis de | | September 24, 1880. | 400 00 |
| Leger, Thomas | Lachine Pier | July 14, 1897 | 200 00 |
| Lamondin, Joseph | Byng Inlet | April 19, 1884 October 7, 1882 | 375 00 |
| Lee, John | Southampton. Collingwood Harbour | May 4, 1883 | 150 00 300 00 |
| Low, Robert | Thornbury | April 12, 1887 | 80 00 |
| Lowry, Robert M | Port Elgin | March 14, 1896 | 60 00 |
| Lumsden, A | Lake Temiscamingue Lights | July 10, 1899 | 200 00 |
| Lawson, Colin P | Middle Island. | October 17, 1898 | 300 00 240 00 |
| Meloche, Simon | Lake St. Louis Light-ship No. 1 | May 1, 1880 | 250 00 |
| Munroe, John Jacob | Lancaster Bar | June 8, 1892 | 250 00 |
| Moreland, F | Nine Mile PointPointe aux Anglais | April 1, 1895 | 200 00 200 00 |
| Mongeon, Charles A | Way Shoal | May 23, 1887 | 100 00 |
| Matheson, Norman | Cape Robert, Algora | October 7, 1896. | 350 00 |
| | Port Credit. | | 150 00 |

^{*}Per month during season of navigation. +Allowance \$60. ‡Allowance \$10.

STATEMENT giving Names and Stations of Light-keepers, &c.—Continued.

ABOVE MONTREAL-Continued.

| Name. | Station. | Appointed. | Salary. |
|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-------------------|
| | | • | \$ cts. |
| Manson, John | Colchester Reef. | June 9, 1886 | 600 00 |
| Morriseau, Michael | Rainy River, Algoma | " 9, 1886 July 5, 1890 | *250 00 250 00 |
| Malott, Albert E | Spanish River. Kingsville Range Lights. | April 12, 1890 | 150 00 |
| Miron, Louis | Gargantua | October 26, 1889 | 450 00 |
| Maguire, James W | Corunna Range Lights Valleyfield Range Lights | April 12, 1890 | 120 00 |
| Miligan, Alexander | Toronto Harbour, Eastern Channel | 25, 1892 . October 16, 1895 | 150 00 150 00 |
| Matheson, Daniel | Black Bear Island, Manitoba. | June 22, 1899. | 150 00 |
| Magnusson, August | Gull Harbour, Lake Winnipeg | September 19, 1898. | 150 0 |
| McKenzie, Donald' | Gull Harbour, Lake Winnipeg Little Current | Sept. 1 1898 | 350 0 |
| McKillop, John | Campbell's Island Arnprior Island | April 2, 1892 | 150 00 |
| McLachlan, Mrs. K | Glengarry, or Stone House Point | 2, 1892 9, 1890 | 150 00 250 00 |
| McKenzie, John | Owen Sound | July 14, 1873 | 100 00 |
| | | | 375 00 |
| McDonald, Amos | Foint Clark. Salmon Point. St. Anicet Shoal Brown's or Knapp's Point. Battle Island. South Bay Point Strawberry Island McQuestion Point. | July 12, 1897 | 300 00 |
| McLaren Allan J | Brown's or Knapp's Point | June 8, 1892 | 230 00 180 00 |
| McKay, Chas S | Battle Island | August 27, 1896 August 27, 1877 October 1, 1881 May 17, 1893 June 9, 1886 Maye 16, 1890 | 500 00 |
| McIntosh, Daniel | South Bay Point | October 1, 1881 | 200 00 |
| McKenzie, Wm | Strawberry Island | May 17, 1893. | 300 00 |
| McQuestion, Mrs. Maria McAulan Donald | McQuestion Point | June 9, 1886 | 100 00 80 00 |
| McDonald Lauchlin D | Saugeen River. Mississagua Island. Fort William Beacon Light, Ottawa River. Point au Baril. Lyal Island. | March 16, 1899 | 450 00 |
| McCool, James | Fort William Beacon Light, Ottawa River. | May 16, 1896 | 90 00 |
| McDevitt, Chas | Point au Baril | March 1, 1897 | 30 0 00 |
| McKay, John | Lyal Island | October 27, 1884 | 450 00 |
| McLean, Arcu | Owen Sound | 11)ecember 23, 1897 | 126 00 350 00 |
| Orr. Wm. B | Snake Island | July 2, 1888 | 350 00 |
| Onillette Godfrey | Buckam's Point | May 1, 1884 | 180 00 |
| O'Rourke, Michael | Centre Brother Island | June 18, 1894 | 200 00 |
| O'Connor, P | Frenchman's Bay | October 13, 1898 April 13, 1899 | 125 00 150 00 |
| Plumb, Ward S | Wind Mill Point. | November 18, 1882 | 180 00 |
| Purvis John | Great Duck Island Light and Fog Alarm | March 9, 1898 | +500 00 |
| Pettypiece, Stephen | Lime Kiln Crossing. | May 11, 1888 September 14, 1896. | 350 00 |
| Prosser, John Plunkett, H. E | Muskoka or Fox Island. | September 14, 1896. October 12, 1884 | 250 00 350 00 |
| Proudfoot, Thos. | Swampy Island, Lake Winnipeg Neebish, St. Mary's River. | November 4, 1898 | 100 00 |
| Root, Albert | Grenadier Island | December 15, 1863 | 250 00 |
| Roddick, Robert | Gull Island | March, 1872 | 500 00 |
| Row, Geo. Albert | Gull Island Telegraph Island. Ste. Anne de Bellevue. Isle Perrot Gravenhurst Narows | October 25, 1895 | 200 00 |
| Repentigny, Toussaint de. | Ste. Anne de Bellevue | February 28, 1881 | ‡125 00 |
| Redmond William H | Gravenhurst Narows | January 25, 1897 June 18, 1894 | 100 00 100 00 |
| Rains, Evan | Shoal Point, Algoma, Sailor's Encampment | November 24 1884 | 250 00 |
| Rains, A. M | St. Mury's River | August, 1892 | ##17 00 |
| Rains, W. W. | St. Mary's River, Westfield Range Light. | 1892 | ‡‡7 00 150 00 |
| Rowan, James | Shoal Point, Algoma, Sailor's Encampment St. Mury's River. St. Mary's River, Westfield Range Light. South Bay Range Lights. Victoria Island, Galetta. | 20, 1898 December 3, 1898 | 150 00 100 00 |
| Shannoh William | Gross Point | September 97 1966 | **425 00 |
| Shannon, George | Assistant | September 27, 1866. | 175 0 |
| Seguin, Grégoire | Assistant. L'Orignal. Mohawk Island. Port Burwell Port Maitland Presqu'Isle | May 8, 1894 March 31, 1896 June 18, 1894 | 100 0 |
| Smithers, R. O | Mohawk Island | March 31, 1896 | 400 (4 |
| Schofield Fergus | Port Maitland | April 10 1971 | 225 00 350 00 |
| OT TO TO | Danger Tale | April 10, 1871 May 11, 1888 | 540 O |

^{*}Allowance \$39. † Allowance \$200 attending Fog alarn. ‡ Allowance \$25.—‡ Per month while light in operation, ** Allowance \$10.

STATEMENT giving Names and Stations of Light-keepers, &c.—Continued.

ABOVE MONTREAL-Continued.

| Name. | Station. | Appointed. | Salary. |
|-----------------------------------|--------------------------------------------------------------------------------|-----------------------------------------|---------------------|
| | | | \$ cts. |
| Smith, H. E. | Presqu'Isle, Main Light | April 29, 1898 | 350 00 |
| Shepperd, Mrs. Wm., acting keeper | Sulphur Island, Range Light | August, 1890 | 300 00 |
| Sullivan, Silas Sauvé, Honoré | Baskin's Wharf | December 22, 1896 | 130 00 |
| Sauvé, Honoré | Caron's Point | February 16, 1889 | 60 00 |
| Spence, Bernard | Paquet Rapids | April 2, 1892 | 100 00 100 00 |
| Smith, Richard | Western Island | April 12, 1890 March 5, 1896 | 700 00 |
| Smith, Donald | Western Island | November 8, 1897 | 300 00 |
| Spencer, D. O | Scotch Bonnet | August 8, 1898 | 350 00 |
| Veech, Stannes | Nine Mile Point; light-keeper and engineer | 35 3 5 5004 | |
| Valee, Charles | of fog alarm | March 7, 1894 April 20, 1899 | 450 00 450 00 |
| Wallace, John | Lindoe Island | July 1, 1881 | 250 00 |
| Winthrop, Robert W | Head of Dechene Rapids | April 13, 1891 | 100 00 |
| Weightman. Wm | North Sisters Rock, Algoma | November 6, 1885 | 350 00 |
| Wootton, Edward | Niagara Snug Harbour, Parry Sound | July 11, 1887 | 50 00 350 00 |
| Webster, Chas | Cabot's Head Light and Fog Alarm | May 10, 1898 | 650 00 |
| | | | |
| BETWEEN | MONTREAL AND QUEBEC AND BE | ELOW QUEBEC. | |
| Arcand, Elzéar | Cap de la Madeleine | May 17, 1892 | 80 00 |
| Alarie, Pierre | Point du Lac. | March 21, 1896 | 100 00 |
| Aver. R | Georgeville, Lake Memphremagog | From year to year. | *1 50 |
| Arcand, Alfred | Seven Islands | May 20, 1898 | 324 00 |
| § Ascah, James | rame Point, Gaspe Co | September 2, 1880 | 400 00 |
| Beaudet, Fulgence | Lotbinière (1) | June 1, 1895 | 80 00 |
| Beaudet, George | Lotbinière (2). | January 4, 1883 | 80 00 |
| | Platon | August 24, 1894 April 20, 1897 | 120 00 †30 00 |
| Bourque, Peter | Bird Rocks. | November 27, 1896 | 1,300 00 |
| Bouilliane, Pierre | Lark Islet | September 1, 1872 | 200 00 |
| Bertrand, Auguste | Macquereau Point | December 21, 1877 | 300 00 |
| Banville, Joseph | Matane. Percé Roadstead Pillars. | March 18 1803 | ‡250 00 200 00 |
| Bahin, Louis D | Pillars. | February 28, 1874 | 450 00 |
| Babin, Louis D | Algernon Rock | February 23, 1874 | 200 00 |
| Ruston Nanciego | Point Rich | May 16 1896 | 500 00 |
| Bourget, Charles | Cape Despair | November 1, 1897 | **400 00 |
| Bargaron George | River Valee | June 16, 1885 | **150 00 70 00 |
| Bouchard, Louis | Cape Despair. Grand River River Valee. Cap au Saumon Lighthouse and Fog Alarm. | May 16, 1896 | 600 00 |
| Beaulieu, Jos. Hudon dit | Point aux Origneaux | April 7, 1875 April 13, 1898 | 250 00 |
| Boucher, Louis | Isle aux Raisins | April 13, 1898 | 240 00 |
| Bujold, Louis | St. Thomas Wharf | April 4, 1898 May 25, 1899 | 80 00 250 00 |
| • | Champlain Main Light | October 1, 1892 | 80 00 |
| Cormier, William | Amberst Island | April 26, 1871 | ++300 00 |
| Coltin. Michael | Belleisle | April 1, 1882 | ##900 00 |
| Côte, Louis T | Cape Chatte | September 10, 1874. | ###300 00 |
| Campbell, John W | Cape Norman Lighthouse and Fog Alarm | April 12 1900 | 720 00 |
| Cassidy James | Cape Rosier Entry Island. Egg Island | November 4, 1890 September 22, 1873. | 800 00 ***300 00 |
| Côté. Paul | Egg Island | November 3, 1871. | 500 00 |
| | | 2.010moor 0, 10/1 | 500 00 |

^{*} Per week. † Per month. ‡ Allowance \$50. ** Allowance \$30. §† Allowance \$50. ‡‡ Allowance \$100. ‡‡‡ Allowance \$200. *** Allowance \$20. †A light-ship is maintained, under contract, at Peninsula Bank, Gaspé Basin.—The present contractor is Thomas Kennedy, sr, of Douglastown, Gaspé County.

${\tt STATEMENT\ giving\ Names\ and\ Stations\ of\ Light-keepers,\ \&c.--Continued.}$

BETWEEN MONTREAL AND QUEBEC AND BELOW QUEBEC-Continued.

| Name. | Station. | Appointed. | Salary. |
|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|-------------------|
| | | , | \$ cts. |
| Chabot, Edouard | Pointe St. Laurent | August 1, 1880 | 300 00 |
| Chiasson, Edward | Etang du Nord | October 22, 1896 | 350 00 |
| Dubreuil, Hector | Etang du Nord | February 18, 1897 | 130 00 |
| Desmarais, Phileas | River St. Francis Kamouraska | July 2, 1897 | 11120 00 |
| Dunaria Alfred I | Pointe aux Jones | August 23, 1887 | 400 00 40 00 |
| Dubois, Octave | Pointe aux Jones | October 14, 1899 | 500 00 |
| Eden, François Electric Light Company | Gaspé Wharf | May 2, 1888 June, 1898 | 42 00 60 00 |
| Fugère, Léandre | Batiscan (1) | April 19, 1868 | 80 60 |
| Fugère, Napoléon | Batiscan (2) | January 10, 1887 | 80 00 |
| Fiset, Jean H | Lake St. Peter Light-ship No. 2 | April 22, 1875 | 500 00 |
| Francieur, Simeon C | Cane Bauld Lighthouse and For Alarm | November 1 1802 | 70 00 800 00 |
| Faffard. Victor | Pointe de Monts | August 1, 1889. | *400 00 |
| Fraser, Pierre T | Red Island | April 12, 1890 | 450 00 |
| | Batiscan (1). Batiscan (2). Lake St. Peter Light-ship No. 2. St. Pierre les Becquets. Cape Bauld Lighthouse and Fog Alarm. Pointe de Monts. Red Island. Greenly Island Lighthouse and Fog Alarm. | | 800 00 |
| Gervais, Ovilas | Contrecœur (1) | March 1, 1877 | 100 00 300 00 |
| Gagné, Joseph Z | Lavaltrie | July 5 1890 | +600 00 |
| Galibois Jean B | Rellechasse | June 23 1880 | 320 00 |
| Gourdeau, Isaac | Lower Traverse Light-ship Martin River | May 8, 1866 | 2,300 00 |
| Gauthier, Jean | Martin River | February 21, 1876 | §300 00 |
| | River Caribou | April, 1872 | 40 00 40 00 |
| Goudreault. Abraham | Eboulements Pole Light | May 10, 1882 | 40 00 |
| Grenier, Solomon | Newport Isle aux Prunes | June 3, 1897 March 22, 1898 | 100 00 120 00 |
| | | 1 | |
| Hébert Moïse M | Cap de la Madeleine | May 11, 1888 April 17, 1891 May 30, 1889 | 150 00 80 00 |
| Heppel. Elzear | Cap de la Madeleine Bicquet Lighthouse and Fog Alarm | April 17, 1891 | 700 00 |
| Harvey Andro | Chicontimi Whart | May 30, 1889 | 40 00 |
| Huot, Joseph | L'Ange Gardien Lake St. Peter Light-ship No. 3. | August 1, 1885 | 70 00 |
| | | l i | 400 00 |
| Lafléche, Désiré | Lake St. Peter Light-ship No. 1 | April 12, 1887 February 1, 1861 | /400 00 75 00 |
| Langleig Antoine | River du Chêne | 1.15557 11 1888 | 100 0 |
| Laliberté, Arthur | Ste. Emelie, Front Range Ste. Emelie, Back Range | September 24, 1880 | 70 00 |
| Leclerc, P. M | Ste. Emelie, Back Kange | April 8, 1899 | 80 0 |
| La Hucuet François | St. Fulgence | October 22, 1896 | 70 00 650 00 |
| Lindsay. Irenee | Gaspé Cape. Green Island. | September 25, 1888 | 600 0 |
| Loisel, John | Point Paspebiac | August 27, 1894 | 150 0 |
| Leclerc, A | St. Antoine | February 6, 1899 | 175 0 |
| Lebel, Esdras | Upper Traverse Light-ship | February 6, 1899 April 13, 1893 January 11, 1878 | 1,400 0 |
| Leblanc, Regis | . White Island Light-ship | January 11, 1878 September 26, 1896 | ‡500 00 300 00 |
| Lavoie, F | Port of St. John Anse St. Jean Wharf | | 40 0 |
| Montplaisir, Antoine E. | Cap de la Madeleine Champlain Pole Light Isle à la Bague Isle Ste. Thérèse (1) North of Halfway Point. Pointe aux Citrouilles | August 6,1877 | 175 0 |
| Martineau, Valerie | Unamplain Pole Light | 2, 1889 | 60 0 |
| Malo Joseph | Isle Ste Thoroge (1) | Fobmore 1 1883 | 150 0 |
| Ménard. Denis | North of Halfway Point | February 1, 1897 September 12, 1890 | 130 0 170 0 |
| Marchand, Ferdinand | Pointe aux Citrouilles. | April 27, 1896 | 200 0 |
| Wiai bill. I alli | St. Valentine | | 150 0 |
| | | | **2 5 |

STATEMENT giving Names and Stations of Light-keepers, &c.—Continued.

BETWEEN MONTREAL AND QUEBEC AND BELOW QUEBEC-Continued.

| Martin, Jule G. Marceau, Louis. St. Francis Murray Bay Myrick, John. Cape Race, Newfoundland, Lighthouse and Fog Whistle Pigrims. Morin, Hypolite Pigrims. Marcotte, P. L. Point Bleue, Lake St. John. McWilliams, John J. Father Point. McLaren, Donald. River du Moulin. September 19, 1899. Nadeau, Alphonse. Nadeau, Alphonse. Nadicosti, South Point Noel, Edouard. Richelieu Light, Lotbinière. April 10, 1899. Paul, Edouard. Lisle de Grace. September 7, 1871. Pagé, Celestin. L'Islet Richelieu. Patterson, J. C. Wadleigh Pope, Herbert. Anticosti, South-west Point. October 22, 1892. "1, 1864. Paquet, Pierre. St. Famille. Poitras, Alexander. Bersimis Range Light. Podina, Alexander. Bersimis Range Light. Red Island Light-ship. Poulin, Alfred. Ste, Famille. Red Island Light-ship. Red Island Light-ship. Red Island Light-ship. "26, 1898. Reves, Samuel. Isle Ste, Thérèse (2) Cotober 12, 1870. April 28, 1894. April 29, 1895. April 29, 1895. April 29, 1897. April 29, 1898. November 1, 1897. April 29, 1898. November 21, 1891. April 6, 1896. Red Island Light-ship. "26, 1898. Reves, Samuel. Isle Ste, Thérèse (2) Cotober 12, 1870. April 28, 1894. Cape Ray Lighthouse and Fog Whistle. "26, 1898. Rennie, E. H. Cape Ray Lighthouse and Fog Whistle. "19, 1885. Roberge, C. Honore. St. Fierre Island. Salvail, Omer. Isle à la Pierre. June 1, 1886. May 6, 1897. June 14, 1886. May 6, 1897. October 28, 1870. October 28, 1870. October 28, 1870. October 28, 1870. October 28, 1870. October 28, 1870. October 28, 1870. October 28, 1870. October 28, 1870. October 28, 1870. October 28, 1870. October 28, 1870. October 28, 1870. October 28, 1870. October 28, 1870. October 28, 1870. October 28, 1870. October 28, 1870. October 28, 1870. October 28, 1870. October 28, 1870. October 28, 1870. October 28, 1870. October 28, 1870. October 28, 1870. October 28, 1870. October 28, 1870. October 28, 1870. October 28, 1870. October 28, 1870. October 28, 1870. October 28, 1870. October 28, 1870. October 28, 1870. October 28, 1870. October 28, 1870. Oc | \$ cts \$300 00 75 00 59 00 1,000 00 340 00 40 00 200 00 35 00 800 00 150 00 +2 55 +1 55 +1 55 ±400 00 320 00 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Marceau, Louis | 75 00 50 00 1,000 00 340 00 40 00 200 00 35 00 150 00 150 00 150 00 12 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 50 11 5 |
| Morin, Hypolite Migrims. Marcotte, P. L. Pilgrims. Marcotte, P. L. Point Bleue, Lake St. John. November 28, 1898. McWilliams, John J. Father Point. McLaren, Donald River du Moulin. September 19, 1889. Nadeau, Alphonse. Anticosti, South Point Noel, Edouard. Richelieu Light, Lotbinière. April 10, 1899. Paul, Edouard. Paul, Edouard. Pagé, Celestin. L'Islet Richelieu. January 9, 1895. Peters, D. E. Witch Rock, Lake Memphremagog. From year to year. Peters, J. H. Green Point " Patterson, J. C. Wadleigh " Pope, Herbert. Anticosti, South-west Point. Paquet, Pierre. St. Famille. " 19, 1885. Petember 21, 1891. Pedneau, Pierre. Isle aux Condres Pole Light. Red Island Light-ship. Poulin, Alfred Ste. Famille. " 26, 1898. Reeves, Samuel. Revers, Samuel. Repentigny (1) Repentigny (1) Robinson, George L. Ash and Bloody Islands. Roberge, C. Honoré. St. Pierre Island Portneuf. St. Pierre Island June 18, 1894. October 12, 1870. April 28, 1894. June 18, 1894. October 7, 1878. Rennie, E. H. Cape Ray Lighthouse and Fog Whistle. " 19, 1885. Rodrique, F. F. Portneuf. St. Pierre Island Portneuf. June 14, 1886. May 6, 1897. Simpad Edward. October 28, 1870. | 1,000 00 340 00 40 00 200 00 35 00 800 00 150 00 +250 +1 50 +1 50 ±400 00 |
| Morin, Hypolite Pilgrims April 29, 1898. Marcotte, P. L. Point Bleue, Lake St. John November 28, 1898. McWilliams, John J Father Point June 1, 1876. McLaren, Donald River du Moulin September 19, 1889. Nadeau, Alphonse. Anticosti, South Point June 18, 1894. Noel, Edouard Richelieu Light, Lotbinière April 10, 1899. Paul, Edouard Isle de Grace. September 7, 1871. Pagé, Celestin L'Islet Richelieu January 9, 1895. Peters, D. E. Witch Rock, Lake Memphremagog From year to year. Peters, J. H. Green Point " Patterson, J. C. Wadleigh " Pope, Herbert Anticosti, South-west Point. October 22, 1892. Painchaud, Joseph Crane Island " Paquet, Pierre St. Famille St. Famille September 21, 1861. Pedneau, Pierre Bersimis Range Light September 21, 1891. Pedneau, Pierre Red Island Light-ship Ste. Famille " Poulin, Alfred Ste. Famille " Red Island Light-ship " Poulin, Alfred Ste. Thérèse (2) October 12, 1370. Rivet, Léon L Repentigny (1) April 28, 1894. Robinson, George L Ash and Bloody Islands June 18, 1894. Robinson, George L Ash and Bloody Islands June 18, 1894. Robinson, George L Ash and Bloody Islands June 18, 1894. Robinson, George L Ash and Bloody Islands June 18, 1894. Robinson, George L Ash and Bloody Islands June 18, 1894. Roberge, C. Honoré St. Pierre Island " 19, 1885. St. Onge, Thomas Contrecœur June 14, 1886. May 6, 1897. Simpad Edward Montée du Lae, and Cane Rouge Beacons. | 340 00 40 00 200 00 35 00 800 00 150 00 +2 50 +1 50 \$400 00 |
| McLaren, Donald River du Moulin September 19, 1889 Nadeau, Alphonse. Anticosti, South Point June 18, 1894 Noel, Edouard Richelieu Light, Lotbinière April 10, 1899 Paul, Edouard Isle de Grace September 7, 1871 Pagé, Celestin L'Islet Richelieu January 9, 1895 Peters, D. E Witch Rock, Lake Memphremagog From year to year Peters, J. H Green Point " Patterson, J. C. Wadleigh October 22, 1892 Pope, Herbert Anticosti, South-west Point October 22, 1892 Painchaud, Joseph Crane Island " 1, 1864 Paquet, Pierre St. Famille " 19, 1885 Poitras, Alexander Bersimis Range Light September 21, 1891 Pedneau, Pierre Isle aux Condres Pole Light April 6, 1896 Poulin, Alfred Ste. Famille " 26, 1898 Ree Ves, Samuel Isle Ste. Thérèse (2) October 12, 1370 Rivet, Léon L Repentigny (1) April 28, 1894 Robinson, George L Ash and Bloody Islands June 18, 1894 | 35 00 800 00 150 00 *30 00 150 00 +2 50 +1 50 +1 50 +1 50 +1 50 |
| Richelieu Light, Lotoiniere | *30 00 150 00 150 00 +2 50 +1 50 +1 50 ‡400 00 |
| Pagé, Celestin L'Islet Richelieu January 9, 1895. Peters, D. E Witch Rock, Lake Memphremagog From year to year. Peters, J. H Green Point " Patterson, J. C. Wadleigh " Pope, Herbert Anticosti, South-west Point. October 22, 1892. Painchaud, Joseph Crane Island " Paquet, Pierre St. Famille " Pottras, Alexander Bersimis Range Light September 21, 1891. Pedneau, Pierre Isle aux Condres Pole Light April 6, 1896. Red Island Light-ship " Poulin, Alfred Ste. Famille " Beeves, Samuel Isle Ste. Thérèse (2) October 12, 1870. Rivet, Léon L Repentigny (1) April 28, 1894. Robinson, George L Ash and Bloody Islands June 18, 1894. Roberge, C. Honoré St. Pierre Island Fog Whistle " Roberge, C. Honoré St. Pierre Island June 18, 1895. St. Onge, Thomas. Contrecœur January 22, 1858. St. Onge, Thomas. Contrecœur June 18, 1897. Simpad Edward Montée du Lac and Cane Rouge Beacons October 28, 1870. | 150 00 +2 50 +1 50 +1 50 +400 00 |
| Peters, D. E. Witch Rock, Lake Memphremagog. From year to year. Green Point " " Patterson, J. C. Wadleigh " October 22, 1892. Pope, Herbert. Anticosti, South-west Point. October 22, 1892. Painchaud, Joseph Crane Island " 1, 1864 19, 1885. Poitras, Alexander Bersimis Range Light. September 21, 1891. Pedneau, Pierre Isle aux Condres Pole Light April 6, 1896. Red Island Light-ship. " 26, 1898. Reeves, Samuel. Isle Ste. Thérèse (2) October 12, 1870. Rivet, Léon L. Repentigny (1). April 28, 1894. Robinson, George L. Ash and Bloody Islands. June 18, 1894. Robinson, George L. Ash and Bloody Islands. June 18, 1894. Roberge, C. Honoré. St. Pierre Island. " 19, 1885. Rodrique, F. F. Portneuf. January 22, 1858. St. Onge, Thomas. Contrecœur June 14, 1886. May 6, 1897. Simard Edward Edward. | †2 50 †1 50 †1 50 ‡400 00 |
| Patterson, J. C. Wadleigh | †1 50 ‡400 00 |
| Painchaud, Joseph Crane Island " 1, 1864 Paquet, Pierre St. Famille " 19, 1885 Poitras, Alexander Bersimis Range Light September 21, 1891 Pedneau, Pierre Isle aux Condres Pole Light April 6, 1896 Red Island Light-ship. " 26, 1898 Poulin, Alfred Ste. Famille " 26, 1898 Reeves, Samuel. Isle Ste. Thérèse (2) October 12, 1870 Rivet, Léon L Repentigny (1) April 28, 1894 Robinson, George L Ash and Bloody Islands June 18, 1894 Richard, Alphonse Brandy Pots October 7, 1878 Rennic, E. H Cape Ray Lighthouse and Fog Whistle " 19, 1884 Roberge, C. Honoré St. Pierre Island " 19, 1885 Rodrique, F. F Portneuf January 22, 1858 St. Onge, Thomas Contrecœur June 14, 1886 Salvail, Omer Isle à la Pierre May 6, 1897 Simard Edward Montée du Lac, and Cape Rouge Beacons October 22, 1870 | |
| Pedneau, Pierre | 70.0 |
| Pedneau, Pierre | 70 00 100 00 |
| Poulin, Alfred Ste. Famille " 26, 1898. Revers, Samuel. Isle Ste. Thérèse (2) October 12, 1370. Rivet, Léon L. Repentigny (1). April 28, 1894. Robinson, George L. Ash and Bloody Islands. June 18, 1894. Richard, Alphonse Brandy Pots October 7, 1878. Rennie, E. H. Cape Ray Lighthouse and Fog Whistle " 19, 1884. Roberge, C. Honoré. St. Pierre Island. " 19, 1885. Rodrique, F. F. Portneuf. January 22, 1858. St. Onge, Thomas. Contrecœur June 14, 1886. Salvail, Omer. Isle à la Pierre. May 6, 1897. Simpard Edward Montée du Lac, and Cape Rouge Beacons. October 28, 1870. | 40 00 **500 00 |
| Rivet, Léon L. Repentigny (1). April 28, 1894. Robinson, George L. Ash and Bloody Islands. June 18, 1894. Richard, Alphonse. Brandy Pots. October 7, 1878. Rennie, E. H. Cape Ray Lighthouse and Fog Whistle. 19, 1884. Roberge, C. Honoré. St. Pierre Island. 19, 1885. Rodrique, F. F. Portneuf. June 14, 1886. St. Onge, Thomas. Contrecœur June 14, 1886. Salvail, Omer. Isle à la Pierre. May 6, 1897. Simard Edward Montrée du Lac and Cape Rouge Beacons. October 28, 1870. | 70 0 |
| Robinson, George L. Ash and Bloody Islands. June 18, 1894 | 270 00 75 00 |
| Richard, Alphonse Brandy Pots October 7, 1878 Rennie, E. H. Cape Ray Lighthouse and Fog Whistle 19, 1884 Roberge, C. Honoré St. Pierre Island 19, 1885 January 22, 1858 St. Onge, Thomas Contrecœur June 14, 1886 Salvail, Omer Jisle à la Pierre May 6, 1897 Simard Edward Montrée du Lac and Cape Rouge Beacons October 28, 1870 | 200 0 |
| Roberge, C. Honoré St. Pierre Island 19, 1885 Rodrique, F. F. Portneuf January 22, 1858 St. Onge, Thomas Contrecœur June 14, 1886 Salvail, Omer Isle à la Pierre May 6, 1897 May 6, 1897 Montée du Lac and Cane Rouge Beacons October 28, 1870 | 400 00 800 0 |
| St. Onge, Thomas. Contrecœur. June 14, 1886 | 70 00 |
| Salvail, Omer. Isle à la Pierre. May 6, 1897 Simard Edward Montée du Lac, and Cape Rouge Beacons, October 28, 1870 | 250 0 |
| Simard Edward Montée du Lac and Cape Rouge Beacons, October 28, 1870 | 75 00 220 0 |
| | 400 U |
| Sasseville, F. J | 700 0 |
| | 40.00 40.00 |
| Savard, Xavier. May 1, 1873 October 22, 1896 | 400 0 |
| Trottier, Widow J. Grondines (1). August 1, 1872 | 100 0 |
| Trottier, Ephrem. Grondines (2). May 17, 1892 | 100 0 |
| Thurber, Wm. Ste. Croix October 5, 1878 Tremblay W T Goose Cape April 4, 1888 | 175 0 250 0 |
| Tremblay, W. T. Goose Cape April 4, 1888. Tremblay, Dorilas Portneuf (2) February 18, 1875. | 350 0 |
| Tremblay, George. River du Moulin. September 9, 1889. | 35 0 |
| Trudelle, AmbroiseL'Ange Gardien | 70 0 |
| Tremblay, Pitre St. Alphonse Wharf. June 19, 1895 Tremblay, Henry Cape l'Aigle Pole Light. February 6, 1896. | 40 0 40 0 |
| Tremblay, Thomas Bay St. Paul. October 25, 1898 | 250 0 |
| Vigneau, Placide. Perroquet Island. September 19,1892. | 600 0 |
| Vigneau, Placide. Perroquet Island. September 19,1892. Vézina, Oliver St. Pierre. October 28, 1897. | 70 0 |
| Whitman, Robert H. Lacolle May 14, 1883 | 420.0 |
| Wheeler, W Lead Mines, Lake Memphremagog From year to year Wyatt, Thomas Forteau, Lighthouse and Fog Whistle October 18, 1889 | 150 00 +1 50 |

^{*} Per month. † Per week. ‡\$250 for assistance. ** Allowance \$1,900. ‡‡ Allowance \$75. § Allowance \$20 for fuel and \$20 for horse.

STATEMENT giving Names and Stations of Light-keepers, &c.—Continued.

NEW BRUNSWICK.

| Name. | Station. | Appointed. | Salary. |
|------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| Arseneau, James Archer, Wm Allain, Joseph | North Tracadie | June 18, 1894 November 7, 1872 May 21, 1895 | \$ cts 100 00 275 00 150 00 |
| Barbour, Jas. G | Cape Enrage Lighthouse and Fog Signal. Cape Jourimain or Cape Tormentine. Cape Spencer. Quaco. Quaco. Quaco Fog Alarm. Goose Lake. Spruce Point. Petit Rocher. Harper's Point Dipper Harbour. Folly Point | May, 11, 1888 September 15, 1875. March 5, 1888 November 25, 1884 September 3, 1887 May 11, 1888 September, 1892 February 26, 1896. September 9, 1887 March 12, 1895 November 29, 1897. | 800 0 300 0 400 0 400 0 250 0 120 0 150 0 75 0 100 0 |
| Clark, Geo. H | St. Martin's Wharf, Quaco. St. John Harbour. Beaver Harbour. Campbellton Beacon Light. Baie du Vin Island. | October 2, 1893 April 2, 1892 January 1, 1880 | 100 0 350 0 250 0 100 0 200 0 |
| Delarey, John Drake, Jeremiah Dunaresq, Francis X Dalzell, Geo. Y Dutch, John Daggett, Mark Dinsmore, Samuel G DeGrace, John | Southern Wolves | October 7, 1880 March 24, 1881 November 7, 1872 March 18, 1893 7, 1875 November 15, 1883 July 5, 1886 June 4, 1889 January 14, 1897 | 250 0 125 0 650 0 280 0 400 0 200 0 *400 0 550 0 500 0 |
| Flewelling, M Fanjoy, William | Point Lepreau Fog Alarm. Flewelling's Wharf. Fanjoy's Point. | April 12, 1890 December 15, 1897 | 100 0 400 0 80 0 80 0 |
| Gillard, John | South Tracadie Gully Point DuChene Range Lights. Hillsborough Pier. | March 23, 1898 June 13, 1888 December 31, 1892 | 90 (75 (|
| Hayden, Michael | Pokemouche Midjic Bluff Musquash Petit Passage Fog Whistle Pokesudie Island. Ward's Point Gannet Rock | October 17, 1888 5, 1894 January 14, 1879 May 5, 1882 July 12, 1881 April 12, 1890 | 200 (200 (†300 (‡400 (180 (80 (|
| Kilpatrick, Joseph | Passamaquoddy Bay | February 3, 1898 | 350 |
| Lantaigne, Gervais Leblanc, Charles P Loonev, Thos. E Lacy, Lebaron | Caraquet Island | October 14, 1896 | 200 250 80 80 |
| Morrison, Peter Morrison, Peter, jr Morrison, Duucan Maillet, D. O | Lower Fox Island. Oak Point Portage Island. Sheldrake Island Indian Point, Buctouche. Anderson's Hollow | July 1, 1892 February 25, 1880 July 7, 1883 | 200 100 200 300 150 |

^{*} Allowance \$20.

[†] Allowance \$45.

[‡] Allowance \$180.

STATEMENT giving Names and Stations of Light-keepers, &c.—Oontinued NEW BRUNSWICK—Concluded.

| Name. | Station. | Appointed. | Salary. |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| , | | | \$ cts. |
| Matheson, R. B | Newcastle | April 18, 1898 | 100 00 |
| McLennan, Kenneth McEwen, David McIntosh, Chas McBaine, Alex McMonagle, Miles McDonald, Whitfield McMann, Robert McLaughlin, Walter B. McNeill, Henry H | Bliss Island Escuminac Lighthouse and Fog Whistle Middle Island Neguac Range Lights Cox's Point Oromocto Shoals Musquash Island McMann's Point South-west Head Dalhousie Beacon Lights and Douglas Island Light Miscou Gully | March 3, 1899 | 300 00 750 00 300 00 100 00 80 00 80 00 80 00 500 00 |
| Nevers, George | Jemseg | November 24, 1884 | 80 00 |
| Preston, S | Belleisle Point. No Man's Friend. Preston's Beach St. Andrews Farmers' Point. Mulholland's Point. | July 11, 1889 April 10, 1889 May 11, 1897 | 80 00 80 00 125 00 250 00 80 00 200 00 |
| Quinton, Wm. M | Mark's Point. | 12, 1890 | 120 00 |
| Ryan, William. Rivers, Roberts. Robinson, John. Richard, Peter F. Robertson, Chas. M. Robertson, Meier. Ross, Elijah. Robichaud, Jude. | Miscou L. H. & F. W. Neguac Beach Richibucto. Robertson's Point. Shediac Island Beacons. Negro Point. Richibucto Beacon Dixon Point. | May 22, 1889. April 24, 1877. June 30, 1896. May 30, 1895. June 30, 1897. December 29, 1873. March 5, 1878. December 5, 1891. | 700 00 *400 00 800 00 150 00 185 00 80 00 250 00 400 00 225 00 150 00 |
| Seely, Chas. F | Bathurst Harbour | March 20, 1882 June 14, 1883 May 3, 1882 July 20, 1885 | †200 00 1,000 00 800 00 100 00 |
| Tatton, George H | Point Lepreau | August 29, 1884 October 16, 1886 September 12, 1899 | 400 00 550 00 80 00 |
| Upton, Robert | Bridge's Point | September 11, 1899. | 80 00 |
| Wilson, James | Fox Island. Partridge Lighthouse and Fog Whistle Sand Point William's Wharf | December 5, 1857 | 300 00 ‡800 00 80 00 80 00 |
| * Allowance \$300. | † Allowance \$10. ‡ Allowance \$100. | | |
| | NOVA SCOTIA. | | |
| Amero, George D. Amirault, James. Amero, Chas. A. | Pubnico Sissisbo Whitehead Island. | February 6, 1893 July 11, 1899 November 9, 1897 | 240 00 200 00 200 00 |
| Burke, James Bonner, George | Digby Pier Brier Island. Main-à-Dieu. Point Aconi. Port l'Hébert. | April 19, 1884 May 2, 1871 April 18, 1874 | 100 00 400 00 300 00 200 00 150 00 |

${\tt Statement\ giving\ Names\ and\ Stations\ of\ Light-keepers,\ \&c.--Continued.}$

NOVA SCOTIA-Continued.

| Name. | Station. | Appointed. | Salary. |
|-------------------------------------|------------------------------------------------------------|------------------------------------|------------------|
| D4'11' D. T. | Superintendent of Soble John d | Name 19, 1004 | \$ cts |
| Boutillier, R. J | Superintendent of Sable Island | | *450 00 |
| Bollong, James Bourgeois, Philip | | May 23 1808 | 300 00 |
| Baker, Thomas | Pease's Island | 19 1879 | 150 00 350 00 |
| Burns, Wm. H | | April 2 1892 | 400 00 |
| Brackett, Wm | | August 28, 1897 | 100 00 |
| Belleveau, John H | Belliveau's Cove | February 16, 1889 | 80 00 |
| Brownell, Alfred | Cold Spring Head | May 26 1891 | 120 00 |
| Brown, James | Cranberry Head Fog Alarm | June 22, 1898 | 500 00 |
| Buchanan, Angus A | Neil's Harbour | August 14, 1899 | 150 00 |
| Chiasson, German | Caveau Point Range Lights | August 20, 1897 | 120 00 |
| Crichton, H. H | Crichton's Head | May 6, 1874 | 200 00 |
| rooks, Demas | Liscomb Louisburg Range Lights | October 5, 1894 | 300 00 |
| Yourdl Tohn | Seal Island Lighthouse and Fog Whistle | " 26, 1897 " 14, 1899 | 150 00 800 00 |
| Campbell, Samuel C | St. Paul's Island, Superintendent | Tuly 17 1807 | †700 00 |
| Campbell, J. O | | April 29 1898 | 300 00 |
| Comeau, Louis C | Meteghan River Wharf | O. tober 12 1875 | 100 00 |
| Campbell, R. J | Meteghan River Wharf Red Islands | August 28 1899 | 120 00 |
| Croucher, George A | Croucher's Island | January 1, 1883 | 300 00 |
| Clough, Daniel | Grandique Pole Light | July 4, 1884 | 70 0 |
| Clory, Abraham | Glasgies Point Pole Light | 25, 1894 | 150 0 |
| Coolin, Joseph | Westhaver's Point | August 5, 1885 | 250 00 |
| Carey, James | Carey's Beach | 11 18, 1886 | 60 0 |
| Cameron, John | Beaver Point | September 29, 1896 | 150 0 |
| Crowell, Benjamin S | Pagis Island, Port LaTour | June 30, 1890 | 150 0 |
| Campbell, John M | Engineer Fog Alarm, St. Paul's Island | October 26, 1898 | 400 0 |
| Dunlap, Wm. H | Bird Island | June 26, 1897 | 400 0 |
| Duane, Isaac | Cape Sable | Outshan 20 1971 | 800 C 500 0 |
| Doody James | Meagher's Beach, L. H. & F. W | February 10 1906 | |
| Dunn James M | Fort Williams | October 26, 1859 | 800 0 260 0 |
| Doane John H. | Varmouth Fourchu, L. H. & F. W | July 1 1874 | 800 0 |
| Doane, Joshua | Yarmouth Fourchu, L. H. & F. W | February 23, 1874 | ‡350 0 |
| Dovle, Edward | Mabou Range Lights | June 14, 1897 | 70 0 |
| D'Entremont, W. H | Abbott's Harbour | May 22, 1888 | 75 0 |
| Dewis, F. H. P | Cape d'Or | April 13, 1898 | 500 0 |
| Dorion, Frank Gould or | Shediac Range Lights | January 13, 1899 | 20 0 |
| Ellis, Wm. E Early, John | | March 8, 1875 February 19, 1887 | 800 0 230 0 |
| Fowler, James E | Apple River Lighthouse and Fog Whistle. | July 25, 1894 | 700 0 |
| Fisher, Joel W | Baccaro or Barrington | August 8, 1893 | 350 0 |
| Fulker, Wm. G | Devil's Island | July 1, 1886 | 420 0 |
| Firth, Charles M | Coffin Island, Liverpool | June 30, 1880 | 400 0 |
| Coster, Israel C | Port Medway | October 13, 1892 | 260 0 |
| Coster, Samuel T | Port Medway Breakwater | February 17, 1899 | 100 0 |
| oster. Geo. M | Port George | November 5, 1897 | 100 0 |
| Fraser, John A | . Callaghan's Island | December 31, 1892 | 200 0 |
| Saulker, W. G | | 1 | 250 (|
| riffin, Spencer H | . Country Harbour | September 18, 1883. | 400 (|
| ilkie, Henry A | Sambro. Holly Point, Isaac's Harbour. | January 8, 1877 | 800 (|
| ittin, Ira L | Holly Point, Isaac's Harbour | April 28, 1894 | 200 |
| oudock, Edward | Shelburne Sand Point | December 3, 1880 | 280 |
| Fould or Dorion, Frank | Shediac Range Light | January 13, 1899 | 100 (20 (|
| Telm William | Flint Island | Iula 21 1009 | 450 (|
| Hopkins, Leslie | Bon Portage Islaad Kingsport Pier Crowe Harbour South Page | October 20 1897 | 350 (|
| Juntley, Charles | Kingsport Pier | June 30 1900 | 100 (|
| Hensbee, David S | Crowe Harbour | November 10 1207 | |
| Hawley, Matthew | South Bay Gabarus Highland Village Pole Light. | May 13 1897 | 300 (|
| Hardy, John | Gabarus | November 99 1800 | 140 (|
| Hennesey, W. P | Highland Village Pole Light | April 6 1800 | 200 (25 (|
| | | 144 PLEE U. 1077 | 20 ' |

STATEMENT giving Names and Stations of Light-keepers, &c.—Continued.

NOVA SCOTIA-Continued.

| Name. | Station. | Appointed. | Salary. |
|--------------------------------------|------------------------------------------------|---------------------------------------|------------------|
| | | | \$ cts. |
| Jackson, David | Ingonish Island | April 13, 1898 | 300 00 |
| Johnson, Edward | Chebucto Head L. H. & F. W. | May 14 1872 | 800 00 |
| Joyce, Simon | | | 100 00 |
| | . Terence Bay Cape St. Lawrence | | 100 00 400 00 |
| Jamieson, Geo. C | Cole Harbour Range Lights | October 21, 1898 | 120 00 |
| Long, Joseph | Canso Harbour | | 200 00 |
| LeBlanc, Severin | Fish Island | July 1, 1889 | 250 00 |
| Lowden, David | | | 150 00 |
| Levasne, wm | ArichatBarrington Light-ship | October 17, 1898 June 18, 1897 | 250 00 500 00 |
| Landry Edward | Big Arrow Island | February 23, 1897 | 200 00 |
| Larkin, Ephraim | Shag Harbour, Stoddart's Island | March 18, 1896 | 150 00 |
| Livingstone, George S | . Advocate Harbour | May 8, 1884 | 250 00 |
| LeBlanc, Benjamin | . Tusket Wedge | November 1, 1892. | 300 00 |
| Landry, Jude | Shediac Range Light | January 13, 1899 | 20 00 |
| Morrison, Charles | | | 320 00 |
| Morrison, M. D | Black Rock Point | June 8, 1892 November 27, 1896. | 250 00 300 00 |
| Misner John E | Fort Point | May 16, 1896 | 150 00 |
| Moser, Samuel | Moser's Island | November 6, 1885 | 450 00 |
| Mullins, James | Mullins Point | June 8, 1892 | 250 00 |
| Munro, William | Pictou | November 22, 1890. | 460 00 |
| Murphy, Michael | Pomket Island | December 18, 1890 October 18, 1869 | 350 00 400 00 |
| Martell John T | Sand PointScatterie Lighthouse and Fog Whistle | | 800 00 |
| Murray. John. | Cape George | November 3, 1882 | 200 00 |
| Munroe, William L | Three Top Island Jeddore Rock | October 28, 1879 | 300 00 |
| | . Jeddore Rock | September 29, 1882. | 400 00 |
| Mitchell, William A | | February 19, 1896. | 300 00 |
| Matheson, Murdoch Morrison, Widow | Whycocomah Pole Light | September 11, 1884. June 5, 1897 | 60 00 150 00 |
| Mauger, John T | Cape La Ronde | November 16, 1898. | 300 00 |
| McDonald, Robert | Carter's Island | January, 1885 | 250 00 |
| McKenzie, R | Gull Rock, Carribou Island | August 1, 1881 | 300 00 |
| McDonald, Henry S | Little Hope Island | April 3, 1897 | 500 00 400 00 |
| McRarlana Alar | Margaree or Sea Wolf Island | February 3, 1898 August 18, 1886 | 60 00 |
| McKav. R | North Canso | February 4, 1882 | 350 00 |
| McFariane, Andrew | | June 8, 1892 | 400 00 |
| McDonald, John A | Port Hood | . May 10, 1880 | 280 00 |
| McDonald, James | Point Tupper | March 15, 1870 | 300 00 |
| | St. Anne's Harbour. Gillis Point | June 26, 1889 December 18, 1897 | 140 00 120 00 |
| | McKenzie Point, Plaster Harbour. | August 20, 1890 | 160 00 |
| | Cape North | October 14, 1899 | 400 00 |
| McRae, Donald | Kidston's Island | May 17, 1892 | 200 00 |
| McLeod, Angus | St. Esprit | October 27, 1880 | 400 00 |
| McDonald, Charles L | Little Narrows | January 17, 1896 July 4, 1884 | 120 00 100 00 |
| McAskill James | Marjorie's Isle Pole Light | November 8, 1897 | 250 00 |
| McNeill, John C | Piper's Cove | December 18, 1897 | 120 00 |
| McNeil, Laughlin | . McNeil's Back Pole Light | August 6, 1884 | 60 00 |
| McFadyen, M | Mabou Range Light | April 17, 1891 | 50 00 |
| McVickar, Archibald | | July 3, 1896 April 25, 1892 | 70 00 |
| McDonald, Donald McNeil, Neil | | December 1, 1897 | £0 00 100 00 |
| McEachern, A. L | | September 8, 1898. | 450 00 |
| McLeod, Murdoch | . Pugwash | December 10, 1897 | 250 00 |
| McKenna, John L | . McNutt's Island, Shelburne Harbour L. H | .1 | |
| | & F. W. Egg Island. | . March 31, 1899 | 800 00 |

STATEMENT giving Names and Stations of Light-keepers, &c-Continued.

NOVA SCOTIA-Concluded.

| Name. | Station. | Appointed. | Salary. |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| McLellan, Ingersoll L McAdam, Hugh R | Economy Pole Light | May 16, 1899 November 14, 1898. | *6 00 60 00 |
| Nass, Henry | Lunenburg | May 12, 1897 July 26, 1897 June 20, 1872 | 300 00 250 00 300 00 |
| O'Leary, John F | Beaver Island | March 7 1894 January 1 1877 | 350 00 400 00 |
| Palmer, Howard | Green Island Louisburg Low Point. Parrsboro'. Wolfe Point Fort Point Sheet Harbour. Cape Sharp, Diligent River North East Harbour Range Lights. | December 29, 1873 November 8, 1897 October 1, 1865 December 6, 1888 October 14, 1899 May 22, 1878 December 17, 1878 July 6, 1893 June 17, 1899 | 500 00 350 00 460 00 340 00 250 00 500 00 250 00 250 00 |
| Quinn, James | Lingan | April 13, 1874 | 200 00 |
| Ruggles, H. M | Black Rock. Boar's Head Cape St. Mary's Horton Blutf Isle Haute George's Island. Shafner's Point. Annapolis Royal | March 16, 1885 December 1, 1864 July 5, 1886 October 26, 1879 18, 1889 January 18, 1876 May 29, 1897 March 7, 1892 | 330 00 425 00 350 00 250 00 500 00 250 00 150 00 |
| Sullivan, James | Cape Canso, Cranberry Island, L. H. & F. W. Guysborough Peggy's Cove Point Spencer's Point. Westport Brier Island Fog Whistle. Church Point. Ouetique Island. Westhaver Island. Green Cove Pole Light South Beaver Harbour Pole Light Salter's Head Beacon Light Westhead Barrington | April 19, 1884 January 4, 1883 April 1, 1870 " 12, 1890 October 1 1874 August 8, 1878 December 1, 1874 September 23, 1888. August 15, 1884 October 15, 1892 June 21, 1888 April 12, 1890 | 800 00 220 00 350 00 125 00 300 00 200 00 200 00 200 00 60 00 60 00 200 00 60 00 100 00 |
| Vigneau, George Vance, George | | March 23, 1883 June 29, 1898 | 300 00 25 00 |
| Wolfe, Howard M | fron Bound. Walton Harbour. Whitehead Guion Island Sheet Harbour Passage Harbour-au-Bouche. Torbay. Cross Island Lighthouse and Fog Whistle. | June 22, 1895 May 26, 1891 October 20, 1897 April 28, 1877. May 11, 1887. February 19, 1896 | 250 00 125 00 510 00 450 00 50 00 250 00 300 00 |
| Young, Uriah | + | 1 | 460 00 |
| Zinck, Jeremiah | Mahone Bay, Hobson's Nose | December 2, 1895 | 300 00 |

^{*} Per month during season of navigation.

STATEMENT giving Names and Stations of Light-keepers, &c—Continued. PRINCE EDWARD ISLAND.

| Name. | Station. | Appointed. | Salary. |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------|------------|
| | , | | |
| llen, Joel S | Indian Point Pier | May 18, 1898 | 350 |
| hampion, Wm ostain, Frederick | Cascumpec Harbour Miminegash, Rix Point Range Light | October 25, 1897 May 19, 1897 | 80 40 |
| raser, John | Summerside Wharf | April 12, 1897 | 100 |
| audet, Agapeillis, Donald | | August 30, 1897 December 10, 1897 | 130 300 |
| ardy, Wm | Little Channel | | 100 |
| Iowatt, Abner J | Cape Bear | 22, 1893 | 100 350 |
| Kennedy, Alexander | . Haszard's Inner Range Light | June 27, 1390 | 60 |
| eard, Solomon Jewis, James | | May 14, 1889 March 1, 1899 | 100 100 |
| Tunn, Duncan | | May 1, 1877 September 21, 1883. | 30 100 |
| cLaine, Archibald | Block House, Charlottetown East Point Lighthouse and Fog Whistle | April 3, 1867 | 340 |
| cDonald, Lauchlin . | . Past Point Lighthouse and Fog Whistle | February 23, 1897. | 500 |
| cDonald, Wm | Panmure Island | November 20, 1853 . May, 8, 1872. | 300 |
| eDonald, Lauchlin cDonald, WmeGrauth, Wm. WeDonald, Change EDonald, Laborate EDonald, Laborate EDonald, Laborate EDonald, Laborate EDonald, Laborate EDonald, Laborate EDonald, Laborate EDonald, Laborate EDonald, Laborate EDonald, Laborate EDonald, Laborate EDonald, Laborate EDonald, Laborate EDonald, Laborate EDonald, Laborate EDonald, Laborate EDonald, Laborate EDonald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Laborate EDOnald, Labora | St. Andrew's Point Outer Range | July 18, 1887 | 130 |
| cDonald, John | Olwon | June 25, 1879. | 125 80 |
| Tend James H | New London. | January 29, 1896 | 100 |
| cDonald, Wm | West Point | December 1, 1875. | 300 |
| oKay John | Wood Island | September 12, 1898. | 250 |
| cMillan, Donald | Covehead Range Lights | September 12, 1898. October 21, 1893 | 90 |
| cMillan, Donald cDonald, Angus cDonald, Jas. A | Souris, | November 13, 1880 | 300 |
| cLeod, Lemuel | Savage Harbour Murray Harbour Beach Light | July 11, 1889 | 100 |
| cPherson, Daniel W | Brush Wharf, Orwell, Range Light | December 21, 1897 January 13, 1899 | 50 60 |
| ulton, Robert T | Savage Island, Cascumpec | June 14, 1897 | 80 |
| Brien, Patrick | | May 14, 1897 | 60 |
| hee, James | North Cape. Murray Harbour, Penny's Light. North Rustico. | September 4, 1897 November 11, 1897 | 300 |
| enny, Robertino, Joseph N | North Pastice | November 11, 1897. | 50 |
| erry, Bruno | Cape Egmont. | February 6, 1897 July 21, 1884. | 100 |
| oriy, Diano | Oupt Egmonu | . ouly 21, 1001 | 200 |
| anaghan, Peter | Sea Cow Head | April 21, 1873 | 250 |
| eady, Michael | | August 1867 | 100 |
| obertson, Alfred | Annandale Range Lights | October 5, 1898 | 100 |
| inclair, Wm evart, Geo | | . March 8, 1897 September 5, 1895 | 250 |
| • | | | 80 |
| uplin, Jas. C | Sandy Island, Cascumpec | May 5, 1897 | 200 |
| aylor, Chas | Sandy Island, Cascumpec Darnley Basin Range Lights St. Peter's Island | June 14, 1897 | 60 |
| aytor, James W | |) | 200 |
| Vood, George | Haszard's Outer Range Light | May, 4, 1893 | 70 |
| Vestaway, Roger D | St. Andrew Point Inner Range | .) " 19 1999 1 | 125 |
| Vestaway, Roger D Viggins, G. W. J Vright, Charles L | Darnley Point Range Lights | | 100 |
| TIBLE, CHEELON EXT. | reambo and or abangui, | June 14, 1894 | 100 |

${\tt Statement\ giving\ Names\ and\ Stations\ of\ Light-keepers,\ \&c.} \\ - {\it Concluded}.$

BRITISH COLUMBIA.

| Name. | Station. | Appointed. | Salary. |
|-----------------------------------------------|-----------------------------------------------------------------------|-------------------------------------------------------|------------------------------|
| | ` | | \$ cts. |
| | Discovery Island L. H. & F. W Egg Island | | 900 00 500 00 |
| Cummins, H. C. Crozier, James. Clark, M. G. | Balfour Bare Point, Chemainus Entrance Island L. H. & F. W | June 12, 1897 | *20 00 120 00 900 00 |
| Daykin, William P Davidson, John Davies, John | Carmanah Point L. H. & F. W. Cape Mudge | November 4, 1890 June 27, 1898 December 2, 1898 | 1,200 00 360 00 *25 00 |
| | Race Rocks Point Atkinson L. H. & F. W | | 1,200 00 1,000 00 |
| Georgeson, James | Plumper Pass L. H. & F. W. Saturna Island, East Point Prospect Point. | October 22, 1889 | 900 00 500 00 300 00 |
| Harvey, Thos. W | Beren's Island Sands Head Sister's Rock, Vancouver | November 4, 1897 April 13, 1898 October 1, 1899 | 300 00 900 00 500 00 |
| Jones, William D | Brockton Point, Burrard Inlet | August 20, 1890 | 300 00 |
| McDonagh, William | FisgardYellow IslandGarry Point | 16, 1898 | 500 00 500 00 *10 00 |
| Patterson, Thomas | Cape Beale | March 2, 1895 | †500 00 |
| Richardson, John | Portlock Point L. H. & F. A | December 2, 1895 | 460 00 |
| Thompson, J. C | Ivory Island | June 27, 1899. | 450 00 |

^{*}Per month. †Allowance, \$700.

DEPARTMENT OF MARINE AND FISHERIES,

OTTAWA, 15th October, 1899.

APPENDIX No. 14.

REWARDS FOR SAVING LIFE.

List of persons to whom rewards have been granted by the Government of Canada for the fiscal year ended June 30, 1899, for the gallant and humane services rendered in life-saving from shipwreked vessels, or by British and Foreign Governments for similar services rendered by Canadian vessels in saving life from shipwrecked British and Foreign vessels for the same period.

| Names and Designations of Persons. | Nature of Services rendered. | Date of Services rendered. | Description of Reward. |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| John McLeod, late Superintendent of the Humane Establishment on St. Paul's Island, N.S. | Services rendered to the surviving members of the crew of the Norwegian barque "Brodreue," and noble conduct in the recovery and burial of the bodies of the master, his son and three of the crew. | | A silver goblet, granted by Royal Resolution of the Government of Sweden and Norway. |
| Captain John Campbell, master; Albert Craig, 1st officer; Alfred Plank, Peter Gruinberg Thomas King and H. Brough, seamen, of the British SS. "City of Venice." | Humane and gallant services in the rescue of the schooner "Neva" of Charlottetown, P.E.I., abandoned at sea in | | A binocular glass to master, a gold watch to 1st officer, and a silver watch to each of the four seamen. |
| George D. Young, coxswain; James Henneberry, Ken- neth Faulkner, Charles Hen- neberry, crew of Life Saving Station at Devil's Island, N.S.; and Henry Henne- berry, Alexander Henne- berry and Edward Walsh, volunteers. | and crew of schooner "Olivette," ashore on the Thrum Cap Shoal, off Hali- | | \$3 to each man—\$21.00 in all. |
| John Dempsey, coxswain; Edward Dempsey, Patrick Dempsey, James Dempsey, Frank Hayes, Martin Fillis and John Power, crew; of Life Saving Station at Her- ring Cove, N.S. | had gone to try and get on board the schooner "Oli- vette," ashore on the Thrum Cap Shoal, off Halifax Har- | , | \$1.50 to each man—\$10.50 in all. |
| Captain Louis Auguste Galène, of the brig "Père Jacques," of St. Servan, France. | Humanity and kindness to the shipwrecked crew of the schooner "Grace" of Lunenburg, N.S. | 1 | A binocular glass. |
| G. Glenton, steward of SS. "Turret Chief." | Bravery in rescue of a little child from drowning at Sydney, N.S. | | Canadian Humane Society, of Hamilton, Ont. |
| Wm. Berry, coxswain; G. Stanton, J. Jennings, B. Berry, L. Berry, Chas. Laing, crew of Life Saving Station at Port Stanley, Ont., and Geo. O. Brown, engineer of the steam barge "A. H. Jennie." | Rescue of two women on Lake Erie, 3 miles east of Port Stanley, Ont., whose boat had upset and who had been in the water for hours hanging to boat. | | \$1.50 to each man—\$10.50 in all. |
| Captain John G. Kish, master; James H. Holman, chief mate; Ernest Goodwin, 2nd mate; Peter Pedersen, boat- swain; Andrew Anderson and A. Fornezza, seamen; of SS. "Simonside," of Sun- derland, Eng. | of the shipwrecked crew of the schooner "Nevada" of Lunenburg, N.S., aban- doned at sea. | | A binocular to master; a gold watch to 1st officer; a gold watch to 2nd officer; a silver watch to boatswain, and £2 to each of the two seamen. |

REWARDS for Saving Life-Concluded.

| Names and | Nature | Date | Description |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Designations of Persons. | of Services rendered. | of Services rendered. | of Reward. |
| Murdoch Bouchard, fisherman, and Jas. McDonald, farmer. | Bravery in saving two persons from drowning in Launch- ing Bay, P.E.I. | Oct. 5, 1898. | A binocular glass to the first man, and a silver watch to the other. |
| Wm. Berry, coxswain; C. Par- ker, H. Thorn, L. Berry, J. Rose, J. Jennings, and E. Berry, crew; of the Port Stanley, Ont., Life Saving Station. | Active service in the rescue of the shipwrecked schooner "H. G. Cleveland." | | \$5 to each man; \$35 in all. |
| Geo. D. Young, coxswain; Jas. Henneberry, Geo. Williams, crew of Life Saving Station at Devil's Island, N.S., and Thomas Henneberry, John Henneberry, Henry Henne berry and Charles Faulkner, volunteers. | tine "Irma," of Charlotte- town, P.E.I., wrecked on the Thrum Cap Shoal, off Halifax Harbour, N.S. | 1898. | Messrs. F. D. Corbett & Co. were also allowed \$63 for towing service of their tug boat, "A. C. Whitney." |
| Joseph Dempsey, coxswain; Jas. Bracket, Thos. Brown, Francis Hayes, John Darrah, Daniel Gorman, Richard Neagle, crew; of the Life Saving Station at Herring Cove, N.S. | sex," and recovery and burial of two bodies found. | | |
| of SS. "Sarmatian," of Glasgow, Scotland. | Three seamen of the ship "Annie G.," of Yarmouth, N.S., picked up at sea off Cape Sable, N.S. | | penses of seamen on "Sarmatian," £6 6s. Also subsistence on SS. "Austrian," conveyance of seamen to Halifax, N.S., £10 16s. Also indemnity for boat and equipment lost in the rescue £40 in all £57 % |
| Captain Wm. Aitkenhead, master; E. Gibson, 2nd officer; A. Baldetta, boatswain; G. Baldetta, G. Giovanni, D. Virza and G. Dominici, seamen; of the SS. "Pawnee," of Liverpool, Eng. | Gallant rescue of the passengers and crew of the schr. "Deer Hill," of St. John, N.B. | Dec. 12, 1898. | A gold watch to captain; a gold watch to the second officer; a silver watch to boatswain; £2 to each of of the four seamen. |
| Captain Henry Nelson, master; Thomas Smith, Patrick J. Quin, George Morgan, John W. Keefe, Nels. Soneson, Patrick Fitzpatrick, Andrew Meade and John E. Belong, fishermen: of the American schooner "Hiram Lowell." | Humanity and kindness in the rescue of the crew of the wrecked schr. "Narcissus," of Lunenburg, N.S., at sea, about 100 miles out from Boston, Mass., U.S. | Dec. 28, 1898. | A gold watch to captain, and \$10 gold piece to each of the eight fishermen; \$80 in all. |

THIRTY-SECOND ANNUAL REPORT

OF THE

DEPARTMENT OF MARINE AND FISHERIES

1899

FISHERIES

PRINTED BY ORDER OF PARLIAMENT



OTTAWA

PRINTED BY S. E. DAWSON, PRINTER TO THE QUEEN'S MOST EXCELLENT MAJESTY

1900

[No. 11a-1900.]

To His Excellency the Right Honourable SIR GILBERT JOHN ELLIOT, EARL OF MINTO, Governor General of Canada, etc., etc.

MAY IT PLEASE YOUR EXCELLENCY:

I have the honour to submit herewith, for the information of Your Excellency and the Legislature of Canada, the Thirty-Second Annual Report of the Department of Marine and Fisheries, Fisheries Branch.

I have the honour to be,

Your Excellency's most obedient servant,

LOUIS HENRY DAVIES,

Minister of Marine and Fisheries.

DEPARTMENT OF MARINE AND FISHERIES, OTTAWA, December 30, 1899.

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REPORT

OF THE

DEPUTY MINISTER.

To the Honourable

Sir Louis H. Davies, K.C.M.G., &c., Minister of Murine and Fisheries.

Sir,—I have the honour to submit the annual report upon the transactions of the Fisheries branch of the Department of Marine and Fisheries, embracing the fiscal year ending on the 30th of June last. The Fisheries Protection Service, Fisheries Intelligence, Fish Culture and Behring Sea Question reports comprise the whole calendar year 1899, and the statistics, as usual, are those covering the previous year. The preliminary reports of the various inspectors give a general idea of the fishing operations and the state of the fisheries in the different provinces during the year now closed.

Three Special Reports are appended by Professor Prince, Commissioner of Fisheries, treating of:—

- 1. Water pollution as affecting fisheries.
- 2. Neglected structural features in young fry.
- 3. The object of a close time for fish.

Reference was made in last year's report to the judgment of the Lords of the Judicial Committee of the Privy Council in London, and its probable effect upon the methods of fishery regulation in the various provinces. The changes following the legal determination of the respective fishery rights of the Dominion and the individual provinces have up to this time been less marked than might have been anticipated. The province of Ontario, it is true, has taken over the work of leasing and licensing fisheries, and of carrying out a system of protection by means of a staff of local fishery officers appointed by the provincial authorities, leaving to the Department of Marine and Fisheries such a general supervision as is demanded by the legislative jurisdiction still belonging to the Dominion Government. A patrol, upon the Great Lakes, through which the international boundary line passes, and three Dominion Inspectors of Fisheries, have sufficed for this general supervision. The province of Quebec, as was mentioned in the thirty-first annual report, took steps to take over the work entailed upon it by the fisheries' decision, and during the past year has by its Department of Lands, Forests and Fisheries, and the staff of fishery officers employed by that department, issued licenses and enforced the fishery laws, so far as the river and inland fisheries, and the estuarine fisheries proper, are concerned. The important sea-shore fisheries carried on below lowwater mark, falling within the limits of Dominion jurisdiction, and in many cases inseparable from grave international questions, have necessitated the employment of Dominion fishery officers along the north shore of the Gulf of St. Lawrence and elsewhere, in addition to the Fisheries' Protection Service. In the other provinces the course pursued has, by an amicable understanding with the authorities in the several provinces, been simply to continue the administration of the fisheries as in the past, with the exception of the granting of exclusive fishery privileges such as those conveyed in oyster leases for tidal areas, which in future the maritime provincial authorities will issue. Essentially, therefore, the work of fisheries administration and protection has been carried on without interruption in New Brunswick, Nova Scotia, Prince Edward Island and British Columbia—no question, of course, having arisen in the North-west Territories and Manitoba regarding these matters.

In order to set at rest any doubts created by the Privy Council decision with regard to the jurisdiction of the Dominion and Provincial Governments respectively, along the sea-coast below low-water mark, it has been deemed of the highest importance that the opinion of the Judicial Committee should be obtained on the point. Steps, indeed, have already been taken to this end.

LOBSTER COMMISSION.

The Lobster Commission appointed by Order in Council dated September 27, 1898, had completed a large part of its work at the close of that year, but it was not until April, 1899, that the final conclusions of the commissioners had been reached. These were published in the form of a Supplement to the Thirty-first Annual Report and upon them was based a code of regulations designed to come into force towards the close of the year. These new regulations, with certain modifications demanded by urgent local exigencies, became law on December 7, 1899, and they consist of the following eleven clauses.

Lobster Fishery Regulations.

- 1. No one shall fish for, catch, kill, buy, sell, or have in his possession, lobsters between the last day of May and the fourteenth day of December in each year, both days inclusive, on and along that part of the coast or the waters thereof, of the province of New Brunswick, embraced and included within the county of Charlotte, and also on and along that part of the coasts or the waters thereof, of the province of Nova Scotia, embraced and included within the counties of Yarmouth, Shelburne, Queen's, Lunenburg, and that part of the county of Halifax, west of a line running S.S.E. from St. George's Island, Halifax Harbour, Nova Scotia, and coinciding with the fairway buoys in the entrance of the said harbour; nor shall any person within the above described limits, at any time, fish for, catch, kill, buy, sell, or have in his possession, any lobster or lobsters under nine inches in length, measuring from head to tail, exclusive of claws or feelers.
- 2. No one shall fish for, catch, kill, buy, sell, or have in his possession, lobsters between the last day of June in each year, and the fourteenth day of January then next following, both days inclusive, in any part of the Bay of Fundy, or on any part of the coasts or waters thereof, inside of a line drawn from the division line of the

counties of Charlotte and St. John, near Point Lepreau, running outside of Brier Island, to the boundary line between the counties of Digby and Yarmouth, in the province of Nova Scotia; nor shall any person, within the above described limits, at any time, fish for, catch, kill, buy, sell, or have in his possession, any lobster or lobsters under $10\frac{1}{2}$ inches in length, measuring from head to tail, exclusive of claws or feelers.

- 3. No one shall fish for, catch, kill, buy, sell, or have in his possession, lobsters between the first day of July in each year, and the thirty-first day of March then next following, both days inclusive, on and along that part of the coast of the province of Nova Scotia or the waters thereof, from the aforesaid line, running S.S.E. from St. George's Island, Halifax Harbour, Nova Scotia, and coinciding with the fairway buoys in the entrance of the said harbour, extending easwardly and following the coast line, as far as Red Point, between Martin Point and Point Michaud, in the Island of Cape Breton, and including Chedabucto Bay and St. Peter's Bay, and the coasts and waters of all the islands lying in and adjacent to these bays, and including the coasts and waters of the Gut of Canso, as far as a line passing from Flat Point in Inverness County, to the lighthouse in Antigonish County opposite.
- 4. No one shall fish for, catch, kill, buy, sell, or have in his possession, lobsters between the first day of August in each year, and the last day of April then next following, both days inclusive, on and along that part of the coast of Cape Breton Island, in the province of Nova Scotia, or the waters thereof, from Red Point, between Martin Point and Point Michaud, in the Island of Cape Breton, and extending to, and around Cape North, as far as and including Cape St. Lawrence; also the coasts and waters of all the islands known as the Magdalen Islands, including Bird Rocks and Bryon Island; also the north shore of the Gulf of St. Lawrence, from the Bay of Blancs Sablons, in the province of Quebec, westward to the head of tide, embracing the coasts and waters of all the islands adjacent to the said shore, and including the Island of Anticosti.
- 5. No one shall fish for, catch, buy, kill, sell, or have in his possession, lobsters between the eleventh day of August in each year, and the twenty-fourth day of May then next following, both days inclusive, along the coasts and in the waters of Northumberland Straits, between a line, on the north-west, drawn from Chockfish River in New Brunswick, to West Point in Prince Edward Island, and a line on the south-east, drawn from Indian Point, near Cape Tormentine in New Brunswick, to Cape Traverse, in Prince Edward Island.
- 6. No one shall fish for, catch, kill, buy, sell, or have in his possession, lobsters from the eleventh day of July in each year, to the nineteenth day of April then next following, both days inclusive, in any part of Canada or the coasts or waters thereof, not embraced within the limits described in the foregoing regulations.
- 7. Excepting as provided by regulations Nos. 1 and 2 as above, in which the size limits are fixed at 9 inches and 10½ inches respectively, no one shall, in any part of Canada, or the coasts or waters thereof, at any time, fish for, catch, kill, buy, sell, or have in his possession, any lobster or lobsters under 8 inches in length, measuring from head to tail, exclusive of claws or feelers.

- 8. No one shall fish for, catch, kill, buy, sell, or have in his possession, for any purpose whatever, any berried lobster or lobsters, or any soft-shell lobster or lobsters. Such lobsters when caught shall be liberated alive.
- 9. No one shall set or place lobster traps, or other fishing apparatus, for the purpose of taking lobsters in any waters of the depth of two fathoms or under.
- 10. No one shall set or place lobster traps, or other fishing apparatus, for the purpose of taking lobsters, at a distance of less than one hundred yards from any stationary salmon net, set for the purpose of taking salmon.
- 11. No one shall for canning purposes offer for sale, sell, barter, supply or purchase any fragments of lobsters, lobsters purposely mutilated or broken up, or any broken lobster meat, and all fragments of lobsters, lobsters purposely mutilated or broken up, or broken lobster meat, so offered for sale, sold, bartered, supplied or purchased, shall be liable to seizure and confiscation, unless possessed for the purpose of domestic consumption only, and not for canning, the proof whereof shall devolve on the owner or possessor.

The Lobster Commission practically ceased with the concluding sitting in Ottawa on April 25. From April 10 to April 25 the commissioners met daily (Sundays excepted) to discuss the voluminous evidence placed before them and formulate their recommendations. No less than sixty-five sittings were held in the Maritime Provinces, the places visited embracing the following: - Digby, Yarmouth, Lower East Pubnico, Lower Woods Harbour, Barrington Passage, Clark's Harbour, Halifax. Shelburne, Lockeport, Liverpool, Port Mouton, Lunenburg, Jeddore, Tangier, Salmon River, Sherbrooke. Goldborough, (Isaac's Harbour), Canso, Guysborough, Arichat, Lower L'Ardoise, Louisburg, North Sydney, Neil's Harbour, North Ingonish, C. B., Bathurst, N. B., Shippegan, Douglastown, Newport, Percé, Port Daniel, P.Q., Chatham, N.B., Richibucto, Kingston, Buctouche, Shediac, Summerside, P.E.I., Egmont Bay, Tignish, Cape Bald, N.B., Port Elgin, Pictou, Antigo. nish, River John, Port Hood, Margaree Harbour, Cheticamp, C.B., Pugwash and Wallace, N.S. On the north shore of the Gulf of St. Lawrence and the Magdalen Islands, where the lobster industry is of considerable proportions, sittings were not held, but at some of the sittings a certain amount of evidence in regard to these localities was obtained. Had it been possible, the commissioners felt that they would have been considerably aided by visits to these two localities. It must be admitted, however, that on the whole the sittings were well attended and excited very general interest. In some cases the sittings were crowded, and the fishermen and packers exhibited the utmost willingness in aiding the commission's work, by giving valuable evidence.

The work of the commission was divided into two sections. Three of the commissioners, Messrs. Moses H. Nickerson, of Clark's Harbour, William Whitman, of Guysborough, and Henry C.V. LeVatte, of Louisburg, Cape Breton, with the chairman (Professor Prince), commencing their work early in October and holding the opening sitting on October 6, at Digby, N.S., and proceeding around the coast of western Nova Scotia from Digby to Halifax, and thence eastward to Guysborough and onward to Neil's Harbour in Cape Breton, concluding the first series of sittings at North Ingonish, C.B., on November 5. The remaining members of the commission,

Messrs. Archibald Currie of Souris, P.E.I.; Patrick J. Sweeney, Shediac, New Brunswick; Stephen E. Gallant, Richmond, P.E.I.; Robert Lindsay, Gaspé, P.Q.; Donald Campbell, Margaree Forks, Cape Breton, and the chairman, commencing the second series of sittings at Bathurst, N.B., on November 17, and holding over thirty sittings at various points on the coasts of Nova Scotia, New Brunswick, Quebec and Prince Edward Island, the sittings being held during the months of October, November and December, and the concluding ones in the months of March and April.

The work of the commission was followed with unusual interest not only in Canada, along the shores of the maritime provinces, but also in the neighbouring republic indeed a United States journal, the leading authority upon fishery matters, said:—'We cannot but admire the conscientious work of the commission. Unlike most of the investigators that we have in this part of the world they have not made the work an occasion for pleasure at public expense, but have with diligence and perseverance prosecuted the inquiry with unremitting earnestness.'

REVISED REGULATIONS OF WESTERN PROVINCES.

For some years it has been apparent that the fishery regulations in force upon the Pacific coast and in the interior of British Columbia, as well as those for the North-west Territories and the province of Manitoba, required thorough revision. The conditions under which the fisheries in these western waters are carried on, have been largely transformed, and the system of protective regulation which might have been suitable to the provinces named, ten years ago, or even five years ago, have been shown to be unsuitable to present conditions in many important respects. Since the Fraser River salmon canning industry commenced nearly thirty years ago with the establishment of two small canneries putting up a little over 7,000 cases, the total pack in British Columbia has increased a hundred-fold, the number of cases for the season just closed being 679,600 and realizing in the markets over three million dollars. The fisheries of Manitoba and the North-west Territories have risen in value from \$30,590 in 1876, to \$745,500 in 1896.

The enormous development of this industry implies changes of the most momentous character, the capital invested, the men employed, the gear used have all increased as the growth of the fisheries has been accomplished. In 1892 a special commission, appointed by Order in Council, made a full investigation of the salmon fisheries of the Fraser River, and the mass of evidence, with the conclusions of the three commissioners was issued as a special report in 1893. The Superintendent of Fish Culture (the late Mr. S. Wilmot) had in 1890 visited the Fraser River and reported upon the salmon fisheries, and a revised code of regulations, based upon the information obtained by officers of the department, and the members of the commission referred to, was issued in 1894. In the same year special British Columbia sturgeon regulations were also framed. The regulations which had been in force prior to these, dated back to 1889, and it was generally admitted that the new regulations were calculated to meet the new conditions which had arisen in the industry.

These conditions, however, continued to change from year to year, and in many details the law appeared to be unsatisfactory; hence in 1895 the Commissioner of Fisheries was instructed to make a complete investigation of the Pacific coast fisheries.

All the principal rivers, and important fishing localities of British Columbia were visited for the first time by a trained specialist. Every cannery on the coast was inspected from the Fraser River on the south, to the Naas River on the north, and the various runs of salmon, their breeding habits, and some of the most important spawning grounds were examined and reported upon. Meetings of fishermen were arranged and conferences with various Boards of Trade were held so that the department became possessed of a very large amount of information of an accurate and reliable nature. As a consequence various modifications in the regulations were adopted, and the president of the New Westminster Board of Trade at its meeting on August 19, 1895, said that 'the relaxation by the Dominion government of late of the salmon fishing regulations, he was glad to say, had made those regulations fairly satisfactory.'

In 1896 Mr. Richard Rathbun and Dr. William Wakeham representing the United States and the British governments respectively, and forming the joint commission to report on the preservation of the fisheries in waters contiguous to Canada and the United States, made a thorough investigation into the salmon fisheries of the Fraser River, of the Columbia River and of the Straits of Georgia and Puget Sound. In their report (dated Dec. 31, 1896,) they stated in detail the further changes that these Pacific salmon fisheries had undergone, and drew attention specially to the use of trap-nets by United States fishermen. A trap-net, it is stated, was erected at Point Roberts, Washington Territory, so early as 1885, but it is only during the last five or six years that this method of fi-hing has assumed serious proportions. There are now five times as many United States traps as there were in 1895. Respecting them the International Commissioners said:—

'Trap-nets have been found to be the most effective form of apparatus for the capture of the sockeye salmon in the clear open waters of the gulf and sound, but they are of recent origin in this region, and are still employed in only a few localities, although the tendency now is to increase their number rapidly. Their use has thus far been almost entirely restricted to the zone traversed by the sockeye, and to the season when that species is present therein, but at times one or more of the other species may be taken in large quantities in conjunction with it.

'The distribution and number of the trap-nets in 1895, was as follows: Point Roberts including two in the Canadian waters of Boundary Bay, 15; Village Point, Lummi Island, 2; Cattle Point, San Juan Island, 2; Point Demock, Camano Island, 1; Hunot Point, Fidalgo Island, 1; total 21. This is probably the largest number that has been fished in any one year. Additional locations have been occupied, but have been abandoned after trial, and more or less changes in position have everywhere taken place each season. Outside of Point Roberts the use of these nets does not seem to date before 1893, and the majority of those above enumerated were established in 1893 or 1894. We were informed that the building of at least seven new ones in several different places was contemplated for 1896.

'Trap-net fishing has been carried on chiefly and for the greatest length of time in the waters immediately surrounding Point Roberts, where the sockeye salmon appear to strike in greater abundance than elsewhere near the shore in United States territory. There are about thirty-two trap-net locations, so-called, in this region, that is to say, places where such nets have been constructed, but less than one

- 'half of them were occupied in 1895. Experience has indicated the most favourable situations for operating traps, and these have been taken possession of by those in a
- ' position to control the ground, while others have to be satisfied with inferior sites,
- 'and some experimenting is still going on in the hope of securing good results in other places.'

In 1897, the Commissioner of Fisheries again visited British Columbia, but confined his attention mainly to the Fraser River and the rivers on Vancouver Island. The canners and commercial men took the opportunity of fully discussing with Professor Prince the various aspects of the industry, and the fishermen held several large meetings which were attended by the Commissioner. In order to meet the new order of things it appeared that the regulations required to be thoroughly recast, and in 1898 a provisional code of entirely new and revised regulations was drawn up. Opposing interests in the fishing industry led to the postponement of the consideration of these suggested regulations as a whole, and a new and partial series of clauses (nine in number) was adopted and became law on August 3, 1898. This year it was apparent that certain points regarding the fisheries which had assumed a new phase demanded attention, and advantage was taken of the visit to the province of an officer of the department, Mr. W. W. Stumbles. Mr. Stumbles has supplemented in various ways the mass of information accumulated, and has made reports on the operation of the existing fishery regulations, and on an obstruction at the head waters of the Fraser River, viz., a dam and extensive mining operations on the South Fork of the Quesnelle River, an important resort for the salmon of the Fraser River.

In the Straits of Juan de Fuca and Puget Sound the number of U.S. trap-nets built was greatly in excess of the number erected in 1898, which in turn had a larger number of traps than had been in operation before, indeed Mr. Stumbles in his reports gives the number in 1899 as 120, of which 80 or 90 were operated practically the whole season. The number of boats engaged in the U.S. salmon fishing also greatly increased, and the time has come when the question of licensing Canadian salmon trap nets in the Straits of Juan de Fuca must be seriously regarded. The department has been collecting all available information on the effects and possibilities of salmon trap nets in the straits, and has under careful consideration the propriety of licensing such trap-nets to British Columbia fishermen.

What has been said of the British Columbia fisheries applies in a large degree to the fisheries of Manitoba and the North-west Territories, the increase of the immigrant population, the opening up and transformation of the Yukon District, and the consequent impetus given to the fisheries, has rendered the existing regulations more or less inapplicable to the vast western area comprised within the limits of Manitoba and the North-west. The very fact that one set of regulations, dating back to May 8th, 1894, obtain for the province of Manitoba and for the North-west Territories, is an indication of their inadequacy. Various amendments have, from time to time, been made to render the regulations more appropriate to the actual conditions prevailing, but a thorough revision of these regulations has been in hand, and three separate series have been provisionally drawn up, which will require the most careful consideration before being embodied in law. These three sets of new regulations will apply to the province of Manitoba, the North-west Territories, and the District of Yukon respectively. As was pointed out in last

year's report, the fishery legislation of the Dominion, like that of almost all other countries, has been a slow growth, rather than a defined and compact product of official experience and knowledge, and so long as the rights and prerogatives of the federal government and of the provincial governments awaited final definition, by the highest judicial tribunal in the empire, it was not advisable or even possible to enter upon such a revision of the fishery regulations in all the various provinces, as was generally admitted to be necessary.

BAIT COLD STORAGE.

One of the most important schemes which has occupied the attention of the department has been inaugurated this year, viz., the establishment of bait freezers or refrigerators for the storage of fresh bait by the government in co-operation with associations of fishermen along the coast. This scheme, devised in the interests of the fishing population, aims to meet a need which has been profoundly felt by the fishermen, viz., the ensuring of supplies of bait which will be available when needed. Season after season the complaint arises that bait is scarce precisely when it is most urgently required, yet such bait can, as a rule, be obtained in abundance earlier in the season when the men are not in immediate need of it. The Lobster Commission of 1898 made reference, in their report, to a proposal for providing cold storage for bait, and during the year the matter was prominently brought foward in the Provincial Legislature of Nova Scotia. In no way could our fishing population in the Maritime Provinces be more effectively assisted, and the furtherance of the fishing industries be aided than by enabling the fishermen to acquire the means of securing and preserving supplies of bait in cold storage. A project for building bait freezers was fully considered and the details rapidly completed early in the year. Before the end of April practical measures were on foot, a complete scheme for the formation of local bait associations was formulated, and printed circulars were issued giving full information respecting fishermen's bait associations, the erection of refrigerator buildings and directione for their successful operation. Valuable aid was rendered by Professor J.W.Robertson, Commissioner of Agriculture, in developing the scheme, and in disseminating information amongst fishermen and parties interested. The parliamentary appropriation of \$25,000 enabled the department to carry out this valuable and comprehensive movement at once. A special officer was authorized to take the necessary steps, both in regard to the organization of bait associations in various localities and the construction of freezers under the combined auspices of the Dominion Government and the local associations. Mr. J. F. Fraser, C.E., was detailed to prepare plans, and supervise the erection of the buildings which have been authorized. A beginning was thus made, without loss of time and as the scheme extends it must prove an inestimable benefit to the coast fishermen. Amongst the more important features characterising the fisherman's bait associations are: their entirely voluntary nature, the co-operative method of conducting them, the assistance by the Dominion Government to the extent of 50 per cent of the cost of building the freezers, and the payment of a proportion of the cost of operating the freezers, in accordance with specified conditions announced in a departmental bulletin or circular. Each local association is required to receive, freeze and store for every shareholder a quantity of bait up to 400 lbs. for each share held by such shareholder and to furnish it during the fishing season as it is needed. Each fisherman pays a nominal charge for freezing and storage and the association has the option of storing

surplus bait, and of disposing of it on terms agreed upon by the association. Thus while the rules of such associations must conform to the general plan, a certain amount of elasticity is provided for.

The scheme has appealed very strongly to the fishermen, who have realized all along the Atlantic coast of the Dominion the immense benefits and advantages offered by this Government project. Meetings of the fishermen have been held in numerous places in every Maritime Province and in the Magdalen Islands. The initial freezer was commenced in November and has been completed at Ballantyne's Cove near Cape George, Antigonish Co., Nova Scotia, but associations have been formed, and considerable progress in some cases made in the building of freezers at a number of different points along the coast. At Drum Head, Guysborough County, the freezer is complete, at Gabarus, C.B., it is in an advanced condition, while the work under the local bait associations at Whitehead, at Larry's River and at Charlo's Cove is in various stages of progress. Mention must be made of the active work carried on with the department's cooperation on Prince Edward Island where freezers are either nearly completed, or schemes for the erection of refrigerators have assumed final shape, at Tignish, Murray Harbour, Souris and Rustico. In Western Nova Scotia there is similar activity, and the movement is rapidly spreading in New Brunswick. It is impossible to foresee how far-reaching the benefits of the bait cold storage system may be and as already pointed out, an important feature in the scheme is the fact that the fishermen themselves must co-operate, and share in the responsibility under government auspices and superintendence.

MARINE BIOLOGICAL STATION.

This important institution, the first of the kind on Dominion shores, was erected during the summer, and temporarily located at St. Andrews, N.B. The parliamentary vote of \$5,000 for founding this scientific laboratory, and the sum of \$2,000 per annum to be provided for carrying on the institution has made possible the prosecution of fishery and marine researches similar to those promoted with signal success in other countries. Before the station was completely equipped, several eminent scientific workers commenced their labours, and during the summer and fall valuable researches were carried on by Professor Knight, of Queen's University, Kingston; Professor A. B. Macallum, University of Toronto; Dr. R. R. Bensley, Demonstrator in Biology, Toronto University; Dr. J. Stafford, Fellow in Biology, Toronto; Mr. B. A. Bensley, Toronto University, and Mr. F. S. Jackson, Demonstrator in Biology, McGill University, Montreal. Professor L. W. Bailey, of the University of New Brunswick, Fredericton, N.B., came over to St. Andrews for a few days in August, and Professor Prince, Commissioner of Fisheries, also spent some time in July, August and September at the marine station. Amongst other studies taken up were the food of various economic fishes in the adjacent waters, really part of the Bay of Fundy, the nature of the catches in the sardine weirs or brush-traps, and the determination of the so-called sardine, the catches of which range in some years between \$100,000 and \$200,000 in annual value. The clam fishery, especially the food, habits and life-history of these shell-fish, and the details of the industry in Passamaquoddy Bay, the study of the eggs and young of fishes, also the histology of medusæ, and especially the identification and tabulation of the various species of

marine animals in the locality occupied the workers during the first season. A small launch, row-boat, dredge and other gear are now part of the station's equipment, and in spite of many disadvantages during the initial stages, the work done has on the whole been highly satisfactory, and many able specialists have signified their intention of conducting investigations in the station during next season. The station, being provided with a large scow, can be moved from place to place along the coast as may be determined by the managing board, and the fisheries of the Dominion will ere long receive the benefits of the discoveries made and the information obtained.

Other countries have realized the extreme value of this technical work The United States for many years has carried on splendidly equipped marine stations, such as that at Wood's Holl, and most important information has been obtained by the studies and experiments on sea fish and marine life generally carried on in these laboratories. France was one of the earliest to see the value of such experimental stations, and at various points along her coast has fourteen or fifteen such institutions. Germany has taken the same course, and when the Island of Heligoland was handed over to Germany by the British government the first thing that was done was the building of a marine station for fishery investigations. In Norway, Dr. Nansen was the means of starting similar work, and the Bergen marine station was built. In Britain active steps have been taken during the last fifteen years, and ten marine stations have been built—a large and important one at Plymouth which cost over \$100,000, and others like the unique and interesting marine laboratory in the old city of St. Andrews, in Scotland, and the capital little station on the Isle of Man. Even Russia has founded a number of these institutions. But Italy possesses the finest of all, viz., the famous Zoological marine station at Naples, which has been resorted to by scientific and fishery authorities from every part of the globe. Dr. Dohrn, its brilliant director, prophesied twenty years ago that as different countries learned the value of such work as marine laboratories perform, a circle of such buildings would ere long circumscribe the globe. This prophecy has now come true, and the last of these institutions, viz., the Canadian biological station has as great, or even a greater field than almost any other.

The building is a neat structure of wood, and consists of a main workroom with tables, shelving for scientific apparatus, glass and books, and all the appliances necessary. Three small rooms contain tanks for sea water and fresh water (about three hundred gallons in all) and there is a storeroom with accommodation for the director, and a dark room for photographic work. Two small pumps and a one horse engine, with large supply pipes reaching to high water, form part of the fittings, while nets, dredges and a large stock of chemical agents complete the equipment. The suggestion that such a station was desirable is due to Prof. Knight, of Queen's University, Kingston, Ont., and it was also strongly urged by the Dominion Commissioner of Fisheries (Prof. Prince, Ottawa). The Royal Society of Canada. especially through the efforts of Prof. Penhallow, of McGill College, Montreal, took up the question, which was also warmly supported by Prof. Ramsay Wright, of Toronto University. The British Association had also appointed a committee to urge the matter. As the biological station is floated season after season from one suitable location to another along the Atlantic shore, the fishery problems of each district will thus be grappled with and their complete solution, as far as possible, attained.

EXPENDITURE AND REVENUE.

The details of the total expenditure for the different fisheries services during the last fiscal period amounting to \$417,601, form the first appendix of this report. This comprises fisheries proper \$95,278, fish culture \$34,522, fisheries protection service \$105,133, miscellaneous expenses \$23,207 and the \$159,459 distributed as fishing bounties.

The total amount received during the same period as revenue from fishery licenses, fines, &c., is given at \$85,502.

This sum includes the \$9,062 collected from United States fishing vessels as fees for the *Modus vivendi* licenses granted to their owners.

FISHING BOUNTIES.

For the season 1898, the sum of \$159,459 was distributed as fishing bounties to the deep sea fishermen of the Maritime Provinces. Of this amount \$63,461 was divided amongst the crews of 784 schooners, and the balance \$95,998 was shared by 23,500 boat fishermen. These different amounts entailed the payment of 14,531 claims. For the last year Nova Scotia received about two-thirds of the bounty fund amounting to \$103,730, Quebec \$31,795, New Brunswick \$13,746 and Prince Edward Island \$10,188.

Since its inception (1882) the total sum of \$2,681,368 has been paid in such fishing bounties to the deep sea fishermen of the above mentioned provinces.

GENERAL STATISTICS OF FISHERIES.

EXTENT OF COAST.

The fisheries of Canada are the most extensive in the world, comprising an immense sea-coast line, besides innumerable lakes and rivers. The eastern sea-coast of the Maritime Provinces from the Bay of Fundy to the Straits of Belle Isle exceeds 5,600 miles, while the western coast of British Columbia is given at 7,180 miles, that is more than double that of Great Britain and Ireland.

While the salt water inshore area, not including minor indentations, cover more than 1,500 square miles, the fresh water area of the part of the great lakes within Canada is reckoned at 72,700 square miles, not including the numerous lakes of Manitoba and the North-west Territories all stocked with excellent species of food fishes.

CAPITAL INVESTED IN THE FISHERIES OF CANADA AND NUMBER OF FISHERMEN.

The following table shows that eighty thousand men were engaged during the season of 1898 in our fishing industry, using boats, nets and other fishing implements aggregating a value of \$9,860,000. About 1,150 schooners manned by 8,657 sailors, besides the 72,877 fishermen, using 38,675 boats and 6,228,000 fathoms of nets, all found employment in this vast industry.

The lobster plant alone is valued at \$1,334,120. This amount comprises 814 canneries, with their 1,335,640 traps, giving employment to 16,548 persons.

RECAPITULATION

Showing the value of Vessels, Boats, Nets, &c., as well as the number of Fishermen in Canada, 1898.

| | Бівнві | SHERMEN IN | · | Veneels. | zi. | P _R | Poats. | GILL-NETS AND SRINES. | TS AND | bna bn eriew, | ter plant. | ьпа ээ ьпа , səs | |
|--------------------------------|----------|------------|---------|----------|-----------|----------------|-----------|--------------------------|-----------|------------------------------------------------------|----------------|---------------------------------------------------------------------|-----------------|
| Phovince. | Уевве]в. | Boats. | Number. | Топпаде. | Value. | Улыдет. | Value. | Fathoms. | Value. | Value of poutrap nets, trap nets, trawls, etc. | sdo.I to sulaV | Approximate freezers, i smoke hou other fixtu itemized. | Total Value. |
| | | | | | 99 | | 90 | | 99- | 69 | - e- | 99- | 60 |
| Nova Scotia. | 5,434 | 20,801 | 537 | 23,718 | 837,590 | 15,358 | 323,989 | 2,087.440 | 563,055 | 220,786 | 567,420 | 459,760 | 2,972,600 |
| New Brunswick | 266 | 11,276 | 282 | 3,674 | 114,500 | 6,203 | 249,833 | 962,030 | 540,827 | 275,753 | 358,375 | 450,215 | 1,989,503 |
| Prince Edward Island | 117 | 4,287 | 83 | 853 | 15,900 | 3,147 | 62,346 | 147,389 | 33,023 | 16,785 | 267,712 | 24,140 | 419,906 |
| Quebec | 163 | 12,169 | 88 | 1,119 | 21,250 | 6,890 | 172,030 | 302,263 | 177,440 | 169,763 | 140,613 | 205,384 | 886, 189 |
| Ontario | 430 | 2,417 | 183 | 2,257 | 105,100 | 1,262 | 82,428 | 1,816,5.5 | 220,510 | 118,270 | : | 102,470 | 628,778 |
| British Columbia | *1,419 | ±20,095 | *178 | 4,700 | 497,240 | 5,182 | 228,500 | 670,000 | 512,100 | 8,750 | | 119,650 | 2,706,240 |
| Manitoba and N.W. Territories. | 97 | 1,232 | +17 | 1,845 | 115,600 | 633 | 17,808 | 213,075 | 28,973 | : | : | 94,200 | 256,581 |
| | 8,657 | 72,877 | | | | | | | | | | | |
| Totals | | 81,534 | 1,154 | 38,011 | 1,707,180 | 38,675 | 1,136,943 | 6,228,732 | 2,075,928 | 810,107 | 1,334,120 | 2,795,819 | 9,860,097 |
| | | | - | | | | | | | | | | |

Nore...* This includes sealing fleet and crews.

† This includes the cannery hands.

† Mostly tugs.

| Value of the sixty-seven salmon canneries.

STATEMENT of the Lobster industry in Canada, 1898.

| E88 | BIONAL | PAPER No. | 11a | | | | | |
|-----|---------|--------------------------|-----------|-------------|---------------|----------------------|--------------|------------|
| | | Total Value of Catch. | 85 | 2,673,624 | 531,524 | 468,374 | 214,417 | 3,887,939 |
| | | Value. | •• | 1,631,565 | 108,880 | 370 | 1,005 | 1,741,820 |
| | Сатсн. | ro ds91'I Alive. | Cwt. | 326,313 | 21,776 | 7.4 | 201 | 348,364 |
| | | Value. | 66 | 1,042,059 | 422,644 | 468,004 | 213,412 | 2,146,119 |
| . | | Number of I lb. Cans. | Lbs. | 5,210,294 | 2,113,222 | 2,342,020 | 1,067,058 | 10,732,594 |
| | | Total Value transfar. | | 567,420 | 358,375 | 267,712 | 140,613 | 1,334,120 |
| • | Рьант. | Value, | 66 | 361,410 | 214,275 | 140,883 | 86,539 | 803,107 |
| | | to redmuN Taps. | | 645,167 | 243,719 | 284,285 | 162,470 | 1,335,641 |
| | | Value. | 99 | 206,010 | 144,100 | 126,829 | 54,074 | 531,013 |
| | | Number of Canneries. | | 231 | 199 | 230 | 154 | 814 |
| | anosra9 | Number of Employed. | | 5,185 | 5,474 | 3,120 | 2,769 | 16,548 |
| | | Province. | | Nova Scotia | New Brunswick | Prince Edward Island | QuebecQuebec | Totals |

63 VICTORIA, A. 1900

COMPARATIVE TABLE showing Number, Tonnage and Value of Vessels and Boats engaged in the Fisheries of Canada, together with the Value of Fishing Materials employed, from 1879 to 1898.

| ****** | | VESSELS | | Во | DATS. | Value of Nets and | Value of other | Total of |
|--------|-------|----------|-----------|--------|-----------|----------------------|-------------------|----------------------|
| YEAR. | No. | Tonnage. | Value. | No. | Value. | Seines. | Fishing Material. | Capital Invested. |
| | | | \$ | | \$ | * | 8 | * |
| 1879 | 1,183 | 43,873 | 1,714,917 | 25,616 | 854,289 | 988,698 | 456,617 | 4,014,52 |
| 1880 | 1,181 | 45,323 | 1,814,688 | 25,266 | 716,352 | 985,978 | 419,564 | 3,936,58 |
| 1881 | 1,120 | 48,389 | 1,765,870 | 26,108 | 696,710 | 970,617 | 679,852 | 4,113,04 |
| 1882 | 1,140 | 42,845 | 1,749,717 | 26,747 | 833,137 | 1,351,193 | 823,938 | 4,757,98 |
| 1883 | 1,198 | 48,106 | 2,023,045 | 25,825 | 783,186 | 1,243,366 | 1,070,930 | 5,120,52 |
| 1884 | ٦,182 | 42,747 | 1,866,711 | 24,287 | 741,727 | 1,191,579 | 1,224,646 | 5,014,66 |
| 1885 | 1,177 | 48,728 | 2,021,633 | 28,472 | 852,257 | 1,219,284 | 2,604,285 | 6,697,45 |
| 1886 | 1,133 | 44,605 | 1,890,411 | 28,187 | 850,545 | 1,263,152 | 2,720,187 | 6,814,29 |
| 1887 | 1,168 | 44,845 | 1,989,840 | 28,092 | 875,316 | 1,499,328 | 2,384,356 | 6,748,84 |
| 1888 | 1,137 | 33,247 | 2,017,558 | 27,384 | 859,953 | 1,594,992 | 2,390,502 | 6,863,00 |
| 1889 | 1,100 | 44,936 | 2,064,918 | 29,555 | 965,010 | 1,591,085 | 2,149,138 | 6,770,15 |
| 1890 | 1,069 | 43,084 | 2,152,790 | 29,803 | 924,346 | 1,695,358 | 2,600,147 | 7,372,64 |
| 1891 | 1,027 | 39,377 | 2,125,355 | 30,438 | 1,007,815 | 1,644,892 | 2,598,124 | 7,376,18 |
| 1892 | 988 | 37,205 | 2,112,875 | 30,513 | 1,041,972 | 1,475,043 | 3,017,945 | 7,647,83 |
| 1893 | 1,104 | 40,096 | 2,246,373 | 31,508 | 955,109 | 1,637,707 | 3,174,404 | 8,681,55 |
| 1894 | 1,178 | 41,768 | 2,409,029 | 34,102 | 1,009,189 | 1,921,352 | 4,099,546 | 9,439,11 |
| 1895 | 1,221 | 37,829 | 2,318,290 | 34,268 | 1,014,057 | 1,713,190 | 4,208,311 | 9,253,84 |
| 1896 | 1,217 | 42,447 | 2,041,130 | 35,398 | 1,110,920 | 2,146,934 | 4,527,267 | 9,826,25 |
| 1897 | 1,184 | 40,679 | 1,701,239 | 37,693 | 1,128,682 | 1,955,304 | 4,585,569 | 9,370,79 |
| 1898 | 1,154 | 38,011 | 1,707,180 | 38,675 | 1,136,943 | 2,075,928 | 4,940,046 | 9,860,09 |

SESSIONAL PAPER No. 11a

Comparative Table showing the number of men employed in the Fishing Industry since 1879.

| Years. | Number of Persons in Lobster Canneries. | Number of Men in Vessels. | Number of Men in Boats, | Total Number of Fishermen. |
|--------|--------------------------------------------------|---------------------------|-------------------------------|----------------------------------|
| | Paragraphic III (Processing) | I | | |
| 1879 | | 8,818 | 52,577 | 61,395 |
| 1880 | | 8,757 | 51,900 | 60,657 |
| 1881 | | 8,359 | 50,679 | 59,056 |
| 1882 | | 8,498 | 52,785 | 61,283 |
| 1883 | | 9,966 | 52,259 | 62,225 |
| 1884 | | 9,968 | 51,854 | 61,822 |
| 1885 | | 9,539 | 53,282 | 62,821 |
| 1886 | | 8,927 | 53,073 | 62,000 |
| 1887 | | 8,911 | 55,247 | 64,158 |
| 1888 | | 9,574 | 53,109 | 62,683 |
| 1889 | | 9,621 | 55,382 | 65,003 |
| 1890 | | 8,726 | 55,000 | 63,726 |
| 1891 | | 8,666 | 56,909 | 65,575 |
| 1892 | | 8,330 | 55,348 | 63,678 |
| 1893 | | 8,899 | 58,854 | 67,753 |
| | 1 | 1 | | |
| 1894 | | | 61,194 | 70,719 |
| 1895 | 13,030 | 9,804 | 61,530 | 71,334 |
| 1896 | 2.,210 | 9,735 | 65,502 | 75,237 |
| 1897 | 15,165 | 8,879 | 70,080 | 78,959 |
| 1898 | 16,548 | 8,657 | 72,877 | 81,534 |
| | i | 1 | | 1 |

VALUE OF THE FISHERIES.

The total value of the Canadian catch of fish for the year 1898 amounts to \$19,667,126, being a decrease of over three million dollars as compared with the unprecedented yield of 1897, but which is near the average of the previous eight years. This amount is subdivided by provinces as follows:—

| Provinces. | Value. | Increase. | Decrease. |
|-----------------------------------------------------------|-------------------------------------------------------|-------------------|-------------------|
| | <u> </u> | 8 | |
| Nova Scotia | $\begin{array}{c} 7,226,035 \\ 3,849,357 \end{array}$ | | 864,312 84,778 |
| British Columbia. Quebec. Ontario | 3,713,101 $1,761,440$ $1,433,632$ | 24,429 143,810 | 2,425,764 |
| Prince Edward Island Manitoba and North west Territories. | 1,070,206 613,355 | | 25,061 |

It is easily seen that the large surplus of last year was made up in British Columbia and Nova Scotia, and this year the same provinces furnish deficits exceeding three million dollars. The fluctuations of the other provinces are not so pronounced. Ontario and Prince Edward Island both show an increase of over \$100,000, the others yielded about the same as the previous year. These different phases are fully explained in the appendices by the inspectors in their respective provinces. The above figures do not include the enormous quantity of fish consumed by the Indians of British Columbia.

The following table shows the relative values of the principal kinds of commercial fishes (above \$100,000) for the year 1898 as compared with those of the previous year:—

| Kinds of Fish. | Value. | Increase. | Decrease. |
|-----------------------------------------|-----------|-------------------------------|---------------------------------|
| | \$ | 8 | |
| Lobsters. | 3,887,939 | 402,674 | · · · · · · · · · · · · · · · · |
| Salmon | 3,159,306 | | 2,520,868 |
| Cod : | 2,996,583 | | 912,511 |
| Herring | 1,987,454 | | 111,623 |
| Mackerel | 694,591 | 97,285 | , |
| Trout | 693,826 | 158,954 | |
| Haddock | 681,557 | | 200,926 |
| Whitefish | 622,173 | | 29,256 |
| Sardines | 429,022 | 72,225 | 20,200 |
| Smelts | 420,142 | | 8,02 |
| Hake | 391,550 | 32,472 | 0,021 |
| Halibut | 291,276 | 71,938 | |
| Pickerel | 235,995 | 11,000 | 80,600 |
| Oysters | 217,024 | 36,536 | 00,000 |
| Sturgeon | 199,160 | | |
| | 159,424 | 9,182 | 00.00 |
| 5 11 1 | 144,708 | | 30,230 |
| • • • • • • • • • • • • • • • • • • • • | | 07.000 | 232,60 |
| Bass | 124,845 | 27,629 | |
| Eels | 118,620 | | 15,20 |
| Shad | 108,013 | | 3,560 |
| Tom-cod | 102,426 | · · · · · · · · · · · · · · · | 4,57 |

The quantity of fish used as bait is reckoned at \$345,388, that of fish oil at \$199,787 and the produce of the fur seals skins realized \$285,520.

A glance at the above table shows that salmon, which last year had usurped the first place held by the cod, has this year been surpassed by the lobster. The enormous decline of two and a half million dollars in the value of salmon is due entirely to the diminished pack of the Fraser River for that season. The other parts of the western province yielded fairly well.

The surplus of \$400,000 in the value of lobsters is not attributed to the packing industry which, on the contrary, has a shortage of over one million cans, but to the rapid growth of the live lobster trade with the United States markets especially in the western counties of Nova Scotia, which have exceeded their previous shipments by over 100,000 cwt. Where such facilities exist to dispose of our large size lobsters in such markets as Boston and New York at remunerative prices, the packing in cans might well be restricted by at least enforcing a large size or length limit, as has been done in the new lobster regulation so far as the greater part of the Bay of Fundy is concerned.

Another most marked fluctuation is the shortage of \$900,000 in the value of cod as compared with the take of 1897. This falling off is mostly felt in Nova Scotia. Prices were low and somewhat contributed to limiting the supply. The same remark applies to haddock and pollock which both show a large decline.

It is gratifying to notice the improvement of \$100,000 in the value of mackerel which has again resumed the fifth place in the list of principal kinds of fish.

Of the fresh water species, while trout shows a fair increase, whitefish has fallen off.

Owing to the development of sardine canning in Charlotte county, New Brunswick, this industry indicates a considerable improvement over the previous output.

Halibut fishing is steadily improving especially in British Columbia.

From the year 1869 to 1898 inclusive the five principal commercial fishes have shown a total return as follows:—

| Cod | \$ 113,768,153 |
|-----------|-----------------------|
| Herring | 58,500,866 |
| Lobsters | 56,338,075 |
| Salmon | 54,569,151 |
| Mackerel. | 38,881,733 |

63 VICTORIA, A. 1900 STATEMENT of the production of each Branch of the Fisheries

| | Kinds of Fish. | Nova S | SCOTIA. | New Bru | NSWICK. | Britis |
|--------------|-------------------------------------------------------------|-------------------------|--------------------|---------------------------------------|-----------------------|-----------------|
| 0. | KINDS OF FISH. | Quantity. | Value. | Quantity. | Value. | Quantity |
| - ' | • | | \$ | | š | |
| ۱ | Cod, dried | 442,946 483 | 1,891,784 4,830 | 77,424 163 | 309,696 1,630 | 5,22 |
| - [| (Haddock, driedCwt. | 106,348 | 319,044 | 9,225 | 27,675 | |
| 3 | freshLbs. smoked, (finnan haddies)Lbs. | 4,399,632 1,360,291 | 131,988 81,616 | 1,250,000 929,100 | 37,500 56 200 | |
| . | Hake, driedCwt. | 108,528 | 244,187 | 25,452 | | |
| 3 | soundsLbs. | 73,457 | 36,728 | 19,280 | 9,640 | |
| | Pollock Cwt. Tom cod or frost fish Lbs. | 54,552 146,120 | 109,104 | 17,802 1,733,100 | 35,604 86,655 | • • • • • |
| 3 | Halibut Lbs. | 1,635,325 | 7,306 163,533 | 111.000 | 11,100 | 1,970,0 |
| | Flounders Lbs. (Salmon, preserved lb. Cans. | 419,000 | 20,950 | 111,000 161,700 11,600 | 8,085 | |
| 1 | Salmon, preserved lb | 13,668 390,742 | 2,050 | 11,600 | 1,740 | 23,642,4 |
| } | fresh Lbs. | 5,145 | 78,148 1,029 | 1,175,167 10,000 | 235,033 2,000 | 914,8 201,0 |
| - | smokedLbs. | 330 | 4,950 | 15 | 225 | 18,6 |
| | Frout Lbs. | 91,330 | 9,133 | 185,480 | 18,548 | 328,8 |
| | Ouananiche Lbs. Whitefish Lbs. | | | · · · · · · · · · · · · · · · · · · · | · · · · · · · · · · · | • • • • • • • • |
| : | Smelts Lbs. | 303,558 | 15,178 | 7,021,000 | 351,050 | 78,5 |
| } | Oulachans B. C. Lbs. | | | | | 919,5 |
| ļ | Herring, salted Brls. "fresh Lbs. | 76,828 4,592,453 | 307,312 45,925 | $163,854 \\ 21,013,750$ | 655,416 210,138 | 565,0 |
| I | smokedLbs. | 428,100 | 8,562 | 8,937,255 | 178,745 | 127,0 |
| į | kippered | | | 265,000 | 26,500 | |
| 5 | Sardines, preserved | · · · · · · · · · · · · | | 1,616,000 | 80,800 342,943 | |
| | } " " Brls. ShadBrls | 4,125 | 41.250 | 171,995 5,805 | 58,050 | |
| ٠. | AlewivesBrls | 10,946 | 43,784 | 27,860 | 111,440 | |
| | Pike Lbs. Maskinonge Lbs. | | | | | |
|) | (Eels, salted Brls. | 2,333 | 23,330 | 2,757 | 27,570 | |
| | Eels, salted Brls. | | | | | |
| | PerchLbs. | | | 30,000 | 1,500 | |
| 2 | Pickerel Lbs. Bass Lbs. | 15,650 | 1,565 | 142,000 349,900 | 7,100 34 990 | |
| | Mackerel, salted Bris. | 15,938 | 239,070 | 250 | 3,750 | |
| 1 | fresh, &cLbs. | 2,371,042 | 284,524 | 276,900 | 33,228 | |
| ١ | Sturgeon Lbs. | | | 15,000 910 | 1,050 455 | 750,0 24,7 |
| 3 | Lobsters, preserved Lbs. | 5,210,294 | 1,042,059 | 2.113.222 | 422,644 | |
| | fresh | 326,313 | 1,631,565 | 21,776 | 108,880 | |
| | Oysters Brls. Clams Brls. | 2,097 1,641 | 8,388 3,282 | 22,675 | 90,700 28,227 | 2,4 |
|) | SquidBrls. | 8,467 | 33,868 | 39 | 20,227 156 | |
| | Coarse and mixed fish Brls. | 64,359 | 128,249 | 4,087 | 8,174 | 1 |
| 1 | tbs. Home consumption (not included above) | | | 41,700 | 3,685 | • • , • • |
| 3 | Fur seal skins, B. C | | | | | 28,5 |
| 3 | Hair No. | 309 | 372 | 22 | 49 | 7,6 |
| 1 | Sea otter B. C. No. Beluga (white whales) No. | | | | | |
| 3 | Fish, oil | 322,277 | 96,682 | 60,090 | 18,027 | 124,5 |
| 7 | Fish used a bait Brls. | 92,885 | 139,329 | 69,350 75,235 | 107,775 37,627 | |
| 3 | manure Brls. guano Tons. | 50,720 | | | 37,627 | |
|) | guanoTons. | ··· | | | | 2 |
| - 1 | Totals | | 7,226,035 | | 3,849,357 | |

SESSIONAL PAPER No. 112 in the different Provinces of Canada, for the Year 1898.

| OLUMBIA. | Quei | BEC, | Onta | ARIO. | PRINCE ED | . Island. | MANI AN NW. TER | D | 2 |
|---------------------------------------|--------------------------|--------------------------|-------------|----------|-----------------------|---------------------------------------|---------------------------------------|----------------------------------------|---|
| Value. | Quantity. | Value. | Quantity. | Value. | Quantity. | Value. | Quantity. | Value. | - |
| \$ | | \$ | | \$ | | \$ | | \$ | - |
| 26,125 | 163,716 | 657,420 | | | 25,372 | 101,488 | | | 1 |
| | 278 2,563 12,000 | 2,780 7,689 360 | | | 83 6,335 13,000 | 19,005 390 | | | · |
| • • • • • • • • • • • • • • • • • • • | 214 | 481 | | | 13,205 27,070 | 29,711 13,535 | • • • • • • • • • • • • • • • • • • • | •••••••••••••••••••••••••••••••••••••• | |
| • • • • • • • • • • • • • • • • • • • | | | | | [<i></i>] | | • • • • • • • • | | 1 |
| 98,500 | 30,500 | 6,590 17,114 1,525 | | | 37,500 10,300 | 1,875 1,030 | | | - |
| 2,364,245 91,485 | | 167,280 | | | | | | | 1 |
| 20,100 | | | 1 | | 8,900 | 1,780 | | | |
| 186,000 32,880 | 216 397,050 95,000 | 3,240 39,705 5,700 | 5,972,005 | 582,431 | 49,300 | 4,930 | 124,000 | 6,200 |) |
| 3,925 | 72,675 351,292 | 5,814 17,564 | 2,926,035 | 232,763 | 648,489 | 32,424 | 7,671,941 | 383,597 | |
| 47,200 | 36,755 | 147,020 | 1,775 | 7,100 | 44,924 | 179,696 | | | 1 |
| 16,950 12,700 | 4,825,300 | 48,253 | 6,309,000 | 126,180 | 251,800 | 2,518 | | | |
| | | | | | | | } | · · · · · · · · · · · · | 1 |
| | 1,760 | 5,280 | | | | | | | 1 |
| | 868 | 8,683 | | | 1,050 | 30 4,200 | | | 1 |
| •••• | 261,920 | 10,477 | 859,783 | 34,391 | | • • • • • • • • • • • • • • • • • • • | 2,532,278 | 50,646 | 3 |
| • • • • • • • • • • • • • • • • • • • | 70,930 217 | 2,170 |) | 1 | 644 | 40 | | | 1 |
| | 857,840 211,560 | | | | | | 77,591 | 776 | 6 |
| · • • • • • • • • • • • | 336,515 | 16,826 | 3 2,715,340 | 135,767 | 'l | | 2,543,422 | 76,30 | |
| . | 133,255 6,497 | 10,660 97,458 | 970,375 | 77,630 | 2,228 | 33,420 | | | |
| 0F 500 | 1 | | 1 | | 26,200 | | 688,510 | 94.40 | |
| 37,500 7,433 | | | 36.520 | 70,295 | 8 | | 8,520 | 34,425 4,260 | 0 |
| | 1,067,058 201 | 213,415 1,005 | 2 | | 2,342,020 74 | 468,004 370 | | | |
| 12,000 | | 1,000 | | | 26,484 | 105,936 | | | |
| 9,080 | 2,765 | 11,060 |) | | 505 510 | 1,010 2,040 | | | |
| 1,100 | 860 | 1.720 | o | | 1 218 | 1,272 | | | |
| 51,300 350,000 | 3,559,210 | 37,72 | 2,327,760 | 58,55 | | | 4,353,113 952,100 | 47,62 9,22 | |
| 285,520 5,700 | ol | 12,510 | 0 | | 20 | 40 | · | | |
| 10,00 | 0 | 1 | | | | ····· | | | |
| 37,35 | . 452 8 139,644 | 1,80 41,89 | 3 | | 19,425 | 5,828 | 3 | | |
| ••••• | . 33,793 | 50,68 | 9[| | 19,425 31,730 | 47,59 | | | |
| 6,00 | 41,183 | 21,09 | 2 | | 1,665 | 1,66 | 5 | | - |
| 3,713,10 | | 1,761,44 | | 1,433,63 | 2 | 1,070,20 | | 613,35 | - |

RECAPITULATION

OF the Yield and Value of the Fisheries in the Dominion of Canada for the Year 1898.

| Kinds of Fish. | Quantity. | Value. | Total Value. |
|-----------------------------------------|---------------------------|----------------------------|------------------------------|
| | | \$ ets. | \$ ets. |
| Cod, dried cwt. | 714,683 | 2,986,513 00 | |
| Cod, Tongues and Sounds brls. | 1,007 $124,471$ | 10,070 00 373,413 00 | 2,996,583 00 |
| Haddock, dried | 5,674,632 | 170,238 00 | |
| smoked (Finnan haddies) | 2,289,391 | 137,906 06 | 681,557 06 |
| Hake, dried cwt. | 147,399 | 331,646 50 | |
| sounds | $119,807 \\ 72,354$ | 59,903 50 | 391,550 00 144,708 00 |
| Pollock ewt. Tom Cod or Frost Fish lbs. | 2.048,520 | | 102,426 00 |
| Halibut " | 3,897,765 611,200 | | 291,276 5 |
| Flounders | 611,200 | | 30,560 0 |
| Salmon, preserved ib. cans | $23,667,720 \\ 3,317,160$ | 2,368,035 40 571,946 60 | |
| fresh lbs. | 225,045 | 24,909 00 | |
| pickled brls. | 19,161 | 194,415 00 | 3,159,306 0 |
| Trout lbs. | 7,147,965 | | 693,826 5 |
| Quananiche " | 95,000 $10,670,651$ | | $5,700 \ 0 \ 622,173 \ 8$ |
| Whitefish | 8,403,839 | | 420,141 9 |
| Onlachans (B.C). | 919,500 | | 47,200 0 |
| Herring, salted brls. | 224,136 | 1,296,544 00 | |
| " fresh lbs. | 37,557,303 10,214,355 | 449,963 00 214,447 10 | |
| snoked" kipperedcans. | 265,000 | 26,500 00 | 1,987,454 1 |
| Sardines preserved | 1,616,000 | 80,800 00 | |
| ,, brls. | 173,755 | 348,222 50 | 429,022 5 |
| Shad " | $10,801 \\ 39,856$ | | 108,013 5 159,424 0 |
| Shad | 3,653,981 | | 95,514 1 |
| Maskinonge | 845,250 | | 50,715 0 |
| Eels, salted bris. | 5,951 | 59,510 00 | , , |
| $_{0}$ fresh lbs. | 985,165 | 59,109 90 | 118,619 9 31,224 2 |
| Perch " Pickerel " | 1,072,531 $5,737,277$ | | 235,995 7 |
| Bass | 1,469,180 | | 124,845 4 |
| Mackerel, salted | 24,913 | 373,695 00 | 201 501 0 |
| r fresh lbs. | 2,674,142 3,046,460 | 320,896 24 168,552 00 | 694,591 2 |
| Sturgeon " " caviare " | 70,728 | 30,608 40 | 199,160 4 |
| Lobsters, preserved | 10,732,594 | 2,146,118 80 | 1 |
| " fresh or alivecwt. | 348,364 | 1,741,820 00 | 3,887,938 8 |
| Oysters brls. | 53,656 | | 217,024 0 41,599 0 |
| Clams "Squid " | 2,146 $11,781$ | | 47,124 |
| Coarse and mixed fish | 70,634 | 140,515 50 | 1 |
|] ,, ,, Ibs. | 10,281,783 | 198,895 80 | 339,411 3 |
| Home consumption (not included above) | 28,552 | | 359,521 (285,520 (|
| Fur seal skins, B.C | 17,952 | | 18,671 2 |
| Sea-otter skins, B.C | 50 | | 10,000 (|
| Beluga skins (white whale) | 452 | | 1,808 (|
| Fish oil galls. | 665,961 227,758 | | 199,787 4 345,388 5 |
| Fish used as baitbrls. | 167,158 | | 84,079 5 |
| Fish guano tons. | 1,865 | | 7,665 |
| · · | | | 10.007.122 |
| Total for 1898 | | •••••• | 19,667,126 6 22,783,546 2 |
| " " 1897 | | | 22,100,010 2 |
| Decrease | | | 3,116,419 |

Showing the Total Value of the Fisheries in the respective Provinces of Canada, from 1870 to 1898, inclusive, as compiled from the Annual Reports of the Department of Fisheries.

RECAPITULATION.

| Year. | Nova Scotia. | New Brunswick. | Prince Edward Island. | Quebec. | Ontario. | British Columbia. | Manitoba and North-west Territories. | Total for Canada. |
|--------|--------------|-------------------|--------------------------|------------|------------|------------------------|-----------------------------------------------|----------------------|
| | 92 | 669 | 49 | 66 | % | 96- | ₩ | 9 ₽ |
| 1870 | 4.019.425 | 1.131.433 | No data. | 1,161,551 | 264,982 | No data. | No data. | 6,577,391 |
| 1871 | 5,101,030 | 1,185,033 | = | 1,093,612 | 193,524 | : | = | 7,573,199 |
| 1872 | 6,016,835 | 1,965,459 | 907 506 | 1,320,189 | 267,633 | = : | = : | 9,570,110 |
| | 6,57,705,809 | 2,285,002 | 288,886 | 1,608,660 | 446.267 | = = | = = | 11.681,886 |
| 1875 | 5,573,851 | 2,427,654 | 298,927 | 1,596,759 | 453,194 | : = | = | 10,350,385 |
| 1876 | 6,029,050 | 1,953,389 | 494,967 | 2,097,668 | 437,229 | 104,697 | ż | 11,117,000 |
| 1877 | 5,527,858 | 2,133,237 | 763,036 | 2,560,147 | 248,199 | 095, 455 | = : | 12,000,934 |
| 1878 | 5, 752, 937 | 2,505,722 | 1.402.301 | 2,820,395 | 367,133 | 631,766 | : : | 13,529,254 |
| 1880 | 6,291,061 | 2,744,477 | 1,675,089 | 2,631,556 | 444,491 | 713,335 | = | 14,499,979 |
| 1881 | 6,214,782 | 2,930,904 | 1,955,290 | 2,751,962 | 509,903 | 1,454,321 | z | 15,817,162 |
| 1882. | 7,131,418 | 3,192,339 | 1,855,687 | 1,976,516 | 825,457 | 1,842,675 | = | 16,824,092 |
| 1883 | 7,689,374 | 3,185,674 | 1,272,468 | 7,138,997 | 1,027,033 | 1,044,040 | : : | 17,766,404 |
| 1885 | 8,283,922 | 4,005,431 | 1,293,430 | 1,719,460 | 1,342,692 | 1,078,038 | : = | 17,722,973 |
| 1886. | 8,415,362 | 4,180,227 | 1,141,991 | 1,741,382 | 1,435,998 | 1,577,348 | 186,980 | 18,679,288 |
| 1887 | 8,379,782 | 3,559,507 | 1,037,426 | 1,773,567 | 1,531,850 | 1,974,887 | 129,084 | 18,386,103 |
| 1888 | 7,817,030 | 2,941,863 | 876,862 | 1,860,012 | 1,839,869 | 1,902,190 3,348,067 | 180,077 | 17,416,510 |
| 1830 | 6,636,444 | 2,699,055 | 1,041,109 | 1,615,119 | 2,009,637 | 3,481,432 | 232,104 | 17,714,902 |
| 1891 | 7,011,300 | 3,571,050 | 1,238,733 | 2,008,678 | 1,806,389 | 3,008,755 | 332,969 | 18,977,878 |
| 1892. | 6,340,724 | 3,203,922 | 1,179,856 | 2,236,732 | 2,042,198 | 2,849,483 | 1,088,254 | 18,941,171 |
| 1893 | 6,407.279 | 3,746,121 | 1,133,303 | 2,218,900 | 1,634,330 | 4,445,905 | 1,042,035 | 20,050,001 |
| 1894 | 6,247,357 | 4,501,020 | 976,836 | 1.867.920 | 1.584.473 | 4.401.354 | 752.466 | 20,119,318 |
| 1866 | 6,070,895 | 4,799,433 | 976,126 | 2,025,754 | 1,605,674 | 4, 183, 999 | 745,543 | 20,407,425 |
| 1897 | 8,090,346 | 3,934,135 | 954,949 | 1,737,011 | 1,289,822 | 6,138,865 | 638,416 | 22,783,546 |
| 1898 | 7,226,634 | 3,849,357 | 1,070,202 | 1,761,440 | 1,433,632 | 3,713,101 | 613,355 | 19,667,121 |
| Totals | 193,258,747 | 88,723,815 | 27,067,242 | 56,353,752 | 30,690,261 | 55,310,872 | 6,896,617 | 458,197,322 |

FISH CULTURE.

The fish culture report for the year 1899 by Professor E. E. Prince, Commissioner of Fisheries, will be found in Appendix 11 of this publication. It includes a complete description of the various fish breeding operations such as the capture of parent fish, collection of eggs, etc., at the different hatcheries by their respective officers in charge.

During the year no less than 222,000,000 fry were hatched and distributed in Canadian waters, nearly half of which were lobsters, the balance consisting of salmon, great lake trout and whitefish.

For the first time a quantity of Rainbow trout have been procured and hatched in a Dominion establishment, viz., Bedford Hatchery, N.S. This Pacific species is reported to reach a large size, to be of superior edible qualities, and is a fine game fish, so that its introduction into Nova Scotia waters, with the co-operation of the Nova Scotia Game and Fish Society is a matter of unusual interest. The New Brunswick authorities have again placed Brook Trout eggs in the Miramichi Hatchery and the fry have been distributed all over the province. The New Zealand Government also obtained a supply of B.C. salmon eggs, and report that the shipment of whitefish eggs in 1898 proved successful.

Reference is made in the Commissionner's report (Appendix 11) to the lamentable destruction of the famous Restigouche Hatchery, which was regarded by pisciculturists all over the world as a model institution. The hatchery was destroyed by fire in August, without doubt at the hands of an incendiary, but the Department immediately secured another site, admirable in every respect, and a new building has been completed, at Flat lands on the Restigouche, so that the work of salmon hatching on that river suffered no interruption. Plans have been prepared, and sites selected for new hatcheries in Inverness County, Cape Breton, Gaspé, P.Q., New Westminster and the Skeena River B. C. Thus the work of fish culture has not only been carried on during the year with undiminished activity and success, but steps have been taken to extend the operations and to vastly increase the benefits which it is admitted accrues from the Government fish-breeding operations.

OYSTER CULTURE.

A full report of last season's work on the culture of oysters by the Department's Expert, Mr. Ernest Kemp follows the fish culture report of which it forms an annex

Mr. Kemp's time was taken up during most of the summer at Murray Harbour and River in P.E. Island, preparing grounds and planting young oysters. From one thousand loads of oyster mud spread out and dried, the shells were all picked out and laid on the beds previously cleared for the purpose of planting young oysters.

He also examined the conditions of Tracadie, Savage Harbour, Morell and Midgell rivers, also part of Fortune River which are fully explained. In Bedeque Bay an area was laid off for the fishermen and one for mud diggers to work upon without interferring or injuring each other's area.

He recommends the division of the natural fishing areas into sections to be fished alternately; the enforcement of size limit; the leasing of water areas, where oysters do not now exist for their cultivation, and the date of the fishing season now as the proper one.

FISHERIES PROTECTION SERVICE.

The report of the operations of the Fisheries Protection Service during the season of 1899 by Commander O.G.V. Spain forms Appendix 12 of this volume. It is pleasing to note that this service has again been carried on without accidents and in a very satisfactory manner.

With the exception of the Dolphin which was disposed of, the fleet of cruisers consisted of the same ships as the previous year, viz, the Acadia, La Canadienne, Curlew Osprey, Kingfisher, Constance, Aberdeen and Petrel. The latter cruising in the Ontario great lakes and the others on the Gulf St. Lawrence and Atlantic coast. The Quadra is also partly employed for the protection of our fisheries on the British Columbia coast.

The number of United States fishing vessels taking advantage of the modus vivendi licenses was in excess of any previous year since 1892.

A glance at the long list of foreign fishing schooners calling at our ports shows of what importance these places are to them.

Towards the end of the season, Commander Spain and his officers devoted much of their time to the protection of the lobster industry and many thousand traps found in close season were seized and destroyed. The high prices quoted for this crustacean seemed to have stimulated the efforts of the poachers.

FISHERIES INTELLIGENCE BUREAU.

A full report of this branch of the service by Mr. T. O'Brien, clerk in charge at Halifax forms annex A to the Fisheries Protection Report.

Daily compilations of the reports from the fifty-three stations now dispersed on our extensive sea-board, are telegraphed to the principal fishing localities of the Maritime Provinces.

THE BEHRING SEA QUESTION.

No material change has taken place with regard to this question since the publication of the Departmental Annual Report for last year, from which the following is extracted, which is as applicable as at the time of publication.

As the Behring Sea question is one of those receiving the consideration of the Joint High Commission, it has passed, for the time being, out of the ordinary channel of correspondence between the different governments, hence the past year has been marked by an absence of proposals and arrangements hitherto obtaining each season in the prosecution of the scaling industry, and the application of the legislation under which it is conducted.

By the terms of the Paris Award, the regulations for the government of the seal fishing in Behring Sea and the North Pacific Ocean, were to be subjected to a new examination every five years, so as to enable both interested Governments to consider whether, in the light of the past experience, there was occasion for any modification thereof.

The representations made to the Canadian Government by those ingaged in the sealing industry in British Columbia, were to the effect that no modifications of these regulations should be agreed to in the nature of further limitations to the business, but that, on the contrary, the successful prosecution of the industry demanded that the existing restrictions should be curtailed alike as to the close season and as to the protective zone around the Pribyloff Islands.

As the United States Government would not entertain any proposals in either of these directions, and it did not seem to the Canadian Government possible for them, having due regard for the interests of those engaged in the sealing industry, to consent to any further limitations upon the operations of the sealers, it was found impossible to agree upon any change in the Paris Award regulations.

No diplomatic correspondence of any importance calculated to change the condition of affairs has occurred during the year. It was announced in April last, by the United States Revenue Department, that the cruisers, Bear, Rush, Corwin, Grant and Perry had been designated by the President to cruise in the waters of the North Pacific Ocean during the season of 1899, for the enforcement of the Act of Congress of 1897, and the regulations of the Paris Tribunal, decreed in August, 1893, for the preservation of the fur seals.

On the other hand, Her Majesty's Government announced to the Government of Canada, that Her Majesty's ships *learus* and *Pheasant* were detailed for patrol duty, under the Paris Award regulations, for the season.

In March, 1899, the United States Treasury Department issued the usual regulations governing the vessels employed in the fur seal fishing during the season. After quoting the Act of Congress approved December 29, 1897, and which came into force during the year 1899, prohibiting pelagic sealing in the North Pacific Ocean, etc., by any citizen of the United States, or persons owing duty or obedience to the laws or treaties of the United States, the instructions gave the text of the Behring Sea Award regulations, which are still in force, as applicable to British vessels. The close season for pelagic sealing was explained, as well as the sixtymile zone around the Pribyloff Islands, and it was added that it should be the duty of vessels of the revenue cutter service, to patrol the waters in question, to seize any British vessels found violating the Paris regulations, and to send or bring the vessel so offending, with all persons on board, together with the proofs and declarations of the officers making the seizure, to Unalaska, deliver her to the British naval officer present, or to a more convenient port in British Columbia, and there to deliver her to the proper authorities of Great Britain, or to the commanding officer of any Britith vessel charged with the enforcement of the said regulations.

These regulations called for no comment as they did not seek to extend in any degree the legislation already provided, or the terms of the Paris regulations, nor to increase the powers of United States officers over British ships at sea, beyond those given them by Imperial legislation and regulations.

On the November 30, last, the Department was notified, of the issue of a circular by the Treasury Department to collectors of customs, amending the Act of 1897, with reference to the regulations in force, regarding the importation of fur seal skin garments. The change was one merely for the convenience of the fur trade, and had no significance, so far as Canada is concerned, from a diplomatic or interna-

tional point of view. The circular itself is prefaced by the statement, that representations had been made that the requirements of the report of a Treasury Agent to accompany each invoice of seal skin garments shipped to the United States, seriously embarrassed trade, on account of the delay incident to the procuring of such reports, under the original regulations, and they were thus amended so as to dispense with the reports, and the certificate of a consul was regarded as sufficient.

In July, the United States authorities complying with the requirements of Article 5 of the Behring Sea Award, notified Her Majesty's Government, that but one American vessel was engaged in pelagic sealing, during the season of 1898, namely the Kate and Anna, whose arrival was reported by the collector at San Francisco. The collector stated that he was satisfied that the skins taken by this vessel were all secured south of the 35° of north latitude, as shown by her log, and therefore, outside the area in which the United States has prohibited pelagic sealing by their own vessels. This vessel took 336 seals.

The total Behring sea fleet, comprised this year of twenty-six vessels, representing 1,894 tons register, crews,—213 white men and 587 Indians,—68 boats and 285 cances, the total catch of the vessels being 34,454 skins, augmented by an Indian catch of 892 on the coast, bringing the total Canadian seal catch for the year 1899 up to 35,346, being larger than that of 1898 and 1897, represented respectively by thirty-five and forty-one vessels. Of these twenty-six vessels, twenty operated on the British Columbian and Alaskan coast, while these same twenty and five others operated in Behring sea, and only one on the Asiatic side. The coast catch was 10,471 skins; the Behring sea catch 23,284; the Asiatic catch 699 and the Indian catch 892.

Separating the Indian catch from that of the vessels proper, the following figures show the catches from the year 1889 to 1899 inclusive:—

| Year. | Vessels. | Catch. | Average per Vessel. |
|-------|----------|--------|------------------------|
| 1889 | 23 | 29,570 | 1,285 |
| 1890 | 29 | 39,351 | 1,357 |
| 1891 | 51 | 50,437 | 989 |
| 1892 | 65 | 46,362 | 713 |
| 1893 | 55 | 67,797 | 1,233 |
| 1894 | 59 | 90,485 | 1,533 |
| 1895 | 61 | 66,962 | 1,097 |
| 1896 | 64 | 53,324 | 833 |
| 1897 | 41 | 29,392 | 717 |
| 1898 | 35 | 27,452 | 784 |
| 1899 | 26 | 34,454 | 1,325 |

It will thus be seen, that from 1892 to 1896, there was an average of over sixty vessels annually engaged in the sealing business, and that in the latter year, sixty-four vessels secured only 53,234 skins, whereas in the year 1891, fifty-one vessels secured 50,437. In 1897 the fleet dropped to forty-one vessels, securing 29,342, and in the present year 1899, twenty-six vessels secured 34,454 skins.

A glance at the above figures will show that in the whole history of the Canadian pelagic sealing business, the average catch per vessel of the present year, has been surpassed only twice, in 1890 and 1894, whereas, it has in no other year been approached very closely. It is also to be borne in mind that the phenomenal catch of the year 1894 was principally taken on the Asiatic side, hence the high average cannot be attributed to what has been called the Pribyleff herd of seals. It would also appear that the Asiatic waters have ceased to be exploited by the sealers, they now confining themselves to the North American waters of the North Pacific Ocean.

It is somewhat significant, after all that has been said on the subject, that so comparatively small a fleet as was engaged in the present year, should have made the largest catch of the past three years, and the largest average catch of any but two years in the history of the Canadian sealing industry.

For the season of 1899, many of the vessels cleared from Victoria earlier than usual, and proceeded southward to the California coast, as considerable success attended some vessels there, during the previous year.

Towards the close of April, the sealers encountered violent gales, which prevailed along the whole western coast, and although the spring catch proved a fairly good one, it would undoubtedly have been much better but for unpropitious weather, which interfered with the work of the hunters.

The sealers are reported to have carefully observed their obligations under the regulations provided by the Paris Award, and the year has been marked by an entire absence of any seizures, or undue interferences by patrolling vessels.

A report that the schooner *Mermaid* had been shooting seals in Behring Sea, upon investigation proved to be without foundation.

The masters of the sealing vessels say that in the neighbourhood of the Fair-weather grounds where the seals congregate prior to entering Behring Sea, through the Aleutian Passes, they are seemingly as numerous as in former years, and it is said that generally speaking their number at sea is undiminished, but they are growing more timid and migratory.

It being reported that the seals were found most numerous to the north-east of the Pribyloff Islands instead of the north-west as formerly, the data available in the department has been examined, and it has been demonstrated that in the earlier years the best sealing grounds in Behring Sea, and, in fact, where the majority of the seals were secured, was principally south of the islands trending westward, very few attempts being made to go north, and comparatively few catches being made there.

A careful examination of the positions at sea, where the vessels have taken seals for the past four years, shows that there has been a decided change in the localities of hunting and that on the coasts, the vessels have increased their areas

very materially in a southerly direction, while in Behring Sea there is a distinct, trend north and east, bringing them principally to the north-east of the Pribyloff Islands.

This has been accounted for by some, as being due to the disturbance of the seals upon the islands, and a consequent incentive to seek other hauling and breeding grounds; while others consider the movement of the food fishes have much more to do with the distribution of the seals. However this may be, it is a fact that some vessels made good catches west of the islands notwithstanding.

Reference has been made to the process of branding seals by the United States authorities on the island, and the expedient has been regarded by some as having an injurious effect upon the herd. From the sealers' standpoint, the effect cannot be very great, unless the branded seals die, inasmuch as out of a total take of 35,346 skins, only 16 branded ones were found, and they were distributed among 11 vessels out of 26, one vessel taking as many as 3, the others, 2 and 1 each.

These facts apparently show that the branding of scals forms no factor in pelagic scaling, and whatever purpose branding may serve for scientific observation or otherwise, it cannot have a salutory effect upon the herd which visits the islands, since it necessarily changes the normal conditions. It might therefore reasonably be expected that the practice is not unlikely to be discontinued.

Altogether, the season has been a very favourable one for the sealers. Added to the large catch, there was a decided increase in the price of the skins, most of them being sold at Victoria for \$11 each; but those which were sent to the London sales by the owners, realized a much higher figure.

ARBITRATION OF SEIZURES OF SEALING VESSELS BY RUSSIA IN 1892.

Diplomatic correspondence is still proceeding between Her Majesty's Government and that of Russia in connection with this case, the principal features being a discussion of the terms of reference of the scalers' claims as filed, to the arbitrator. The final text of the note to be exchanged, embodying these terms of reference, has not yet been decided upon, but it is expected that a settlement will be reached, which will enable a reference before long,

The work in connection with the preparation of the claims has been pushed with all possible speed, and counsel to represent Her Majesty's case have been appointed by the Canadian Government.

THE STAFF.

The outside staff of fishery officers connected with the department during the year ending December 31, 1899, aggregate 801 men including the crews of the fisheries protection fleet, which form nearly half of the total number.

These officers were dispersed by provinces as follows:

| Ontario | 3 |
|--------------------------------------------------------|-----|
| Quebec | 11 |
| Nova Scotia | 60 |
| New Brunswick | 29 |
| Prince Edward Island | 5 |
| Manitoba | 5 |
| North-west Territories | 7 |
| British Columbia | 9 |
| Fishery guardians employed in 1899 | 275 |
| Officers and crews of the Fisheries Protection Vessels | |
| Total | 801 |

The following are inspectors of fisheries in the different provinces of the Dominion:

| Name. | P. O. Address. | Extent of Jurisdiction. |
|------------------------------|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Bertram, A. C | North Sydney, N.S Pictou, N.S | District No. 1.—Cape Breton Island. District No. 2.—Cumberland, Colchester, Pictou, Antigonish, Guysboro' Halifax and Hants counties. |
| Ford, L. S | Milton, N.S | District No. 3.—Lunenburg, Queen's, Shelburne, Yarmouth, Digby, Annapolis and King's counties. |
| Pratt, J. H Chapman, Robt. A | St. Andrews, N.B Moncton, N.B | District No. 1.—The county of Charlotte. District No. 2.—Restigouche, Gloucester, Northumberland, Kent, Westmorland and Albert counties. |
| Miles, H. S | Oromocto, N.B | District No. 3.—St. John, King's, Queen's, Sunbury, York, Carleton and Victoria counties. |
| Matheson, J. A | Gaspe Basin, Que | Prince Edward Island. Lower St. Lawrence River and Gulf. That portion of Quebec, south of River St. Lawrence and |
| Belliveau, A. H | Ottawa | north and east of and including county of Bellechasse. Province of Quebec, north of River St. Lawrence and west from and including River Saugenay, and the portion south of River St. Lawrence which lies west and south of the county of Bellechasse. |
| Cunningham, F. H | Ottawa | That portion of Ontario east of the western boundary line of the counties of Durham, Victoria and Haliburton including Lake Scugog, and the eastern boundary of Muskoka and Parry Sound districts. |
| Sheppard, O. B | Toronto, Ont | That part of the province of Ontario, west of the eastern boundaries of the county of Ontario, and the districts of Muskoka and Parry Sound along the Mattawa and Ottawa Rivers and northward along the north eastern boundary line of said province to James Bay. |
| Duncan, A. G | Marksville, Ont | That portion of Ontario lying west and north of Lake Nipissing, the Rivers Mattawa and Ottawa and the north-east boundary line of the province to James Bay, embracing Nipissing, Algoma, Thunder Bay and Rainy River districts, Lake Superior and such portions of Lake Huron and Georgian Bay as lie adjacent or opposite to the part of Ontario above described. |
| Colcleugh, F. W | Qu'Appelle, N.W.T Dawson City | Province of Manitoba. All the North-west Territories. Yukon District, N.W. Territories. Province of British Columbia. |

The following are the officers in charge of the Government Fish Hatcheries:

| Name. | Rank. | P. O. Address. | |
|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|------------------------|---------------------------------------------------------------------------------------------------|
| Parker, Wm Walker, John Finlayson, Alex | Officer in charge of Government Fish " Asst. officer in charge of Government Officer in charge of Government Fish " " " | Fish Hatchery | Sandwich, Ont. Ottawa, Ont. Magog, Que. |
| Ogden, A Sword, C. B Colcleugh, F. W Kemp, Ernest | Government Lobs Asst. officer in charge of Government Officer in charge of Government Fish " Oyster culture | Fish Hatchery Hatchery | Bedford Basin, N.S. Pictou, N.S. Sydney, C.B., N.S. New Westminster, B.C. Selkirk Man |

Note.—The list of the commanders of cruisers will be found in Appendix No. 12, page 267.

PRELIMINARY REPORTS ON THE FISHING SEASON OF 1899.

Since the adoption of the system of publishing the statistics of fisheries for the year previous to the date of publication, our inspectors have been requested to report briefly on the general prospects of the recent fishery operations in their respective districts or provinces. A glance at these concise reports (herewith appended) will give a fair impression of the principal fluctuations of the various species in the different provinces as compared with previous quantities or values. The prospects that the total value of the Canadian fisheries will exceed that of 1898 are encouraging. The substantial increase in the pack of the British Columbia salmon industry alone would justify such expectations. It is therefore safe enough to estimate this total value of our catch for the season just closed at twenty million dollars.

NOVA SCOTIA.

CAPE BRETON ISLAND.

Inspector A. C. Bertram, of North Sydney, C.B., states that the fishery statistics for the year 1899 will show a marked increase in the catch of cod, haddock and lobsters, and a decrease in the catch of salmon and mackerel. The statistics in the other branches will vary but little from those of previous years. Not for years in the inshore waters have cod and haddock been found so plentiful. Although scarcity of bait in some localities and the presence of dog-fish militated against a great catch of cod and haddock, still the statistics will show an increase of at least 45 per cent over those of the three previous years. Towards autumn, squid, which is the best known cod and haddock bait, was found plentiful in the inshore waters, which proved of great benefit to the fishermen who were engaged in prosecuting the cod and haddock fishery. The market for this class of dry and pickled fish was good and the prices in advance of last year. The system of cold storage for the preserva-

tion of bait about being inaugurated by your department in the principal fishing districts in the maritime provinces, will be of incalculable advantage to the fishing industry. The system is so good that it appears to me that all that is now necessary is the co-operation of the fishermen themselves. The Government seems to be doing its duty for the promotion of the fishing industry and the fishermen should not be slow in taking advantage of the benefits conferred. I regret having to report a great failure in the mackerel fishery this season. These fish were conspicuous for their absence in our inshore waters throughout the whole year. Whether in their journey to and from the spawning grounds this season, mackerel, for some unexplained cause, proceeded through deep water instead of following the shoal waters of the coast line and visiting the bays as heretofore, or these fish are disappearing as a result of the destructive purse-seine in former years, particularly while en route to the spawning grounds, I am not in a position in this preliminary report to state; one fact is clear, however, namely, mackerel are becoming scarcer every year in our inshore waters. The statistics will show also a marked falling off in the salmon fishery. Strange, but nevertheless true, every alternate year this fishery is good. Last year salmon were plentiful, but this year scarce. Next year the probabilities are there will be a good salmon catch in Cape Breton district. The reason for this is unexplained, but quite noticeable to those engaged in this fishery. There was an increase of one lobster cannery over the previous year. The returns in this branch will show an increased catch, which may be attributed to the extension given on the eastern and northern coast of Cape Breton. The industry is being more vigorously prosecuted year by year and the supply is being fairly well kept up.

This being only a preliminary report I am not in a position to discuss as accurately the fishery "crop" of 1899 as when writing my annual report as I will then have the statistics to aid me in doing so.

DISTRICT NO. 2, N.S.

Inspector Robt. Hockin, of Pictou, reports that the results of the operations of fishermen in this district during the past season, have been more favourable than for some years past. The catch of lobsters has not been equal to that of last year. The shortage will be about 5 per cent, but the increased prices obtained for the fish more than made up the difference. The cod, haddock, hake and pollock fisheries will show a yield from 10 to 20 per cent over that of last year, with much better prices obtained for those caught. The herring fishery has not been equal to last year, probably 25 per cent short, but the increase in the catch of mackerel will more than make up the difference to the net fishermen. Salmon were unusually plentiful in the Bay of Fundy, and on the Atlantic coast more were taken than last year. On the Straits of Northumberland, there is a shortage. Over the whole district, the catch will show a yield of about 10 per cent over that of last year. Shad (taken mostly in the Bay of Fundy) have been more plentiful than for many years, the catch being the largest since 1879. Gaspercaux seems to be becoming scarcer each year, and unless they have free access to the lakes where they spawn, they will gradually become extinct. The yield of the halibut fishery will be about the same as last year. Other fisheries will not show any great variation in the catch from previous years.

NEW BRUNSWICK.

Inspector J. H. Pratt, of St. Andrews, says that the same good fishing of all kinds enjoyed by our fishermen during 1898, was continued during the season of 1899. The statistics will not show as great a catch of sardine herring as in 1898, but better prices prevailed this year. The catch of large herring will also show a decrease. Owing to the two sardine canning syndicates at Eastport, Maine, competing against each other for herring to keep their factories running, our weir owners realized better prices for their sardine herring than they did during the previous season. The catch of cod, pollock, haddock and hake will show a decrease when compared with last season, owing partly to an increase in the schools of dog-fish frequenting the Bay of Fundy, and also to more men working at weir fishing and in the neighbouring sardine canneries. However, the line fish of all kinds brought excellent prices at the markets. The lobster catch will show about the same result as in 1898, with an increased demand from all the markets.

DISTRICT NO. 2.

Inspector R. A. Chapman of Moncton says that the aggregate of fish caught in this district will be a little larger than in 1898. Salmon were more plentiful in the Miramichi districts, but the catch was smaller on the Restigouche River and coasts of the Baie des Chaleurs than during the previous year.

Spring herring were taken for bait, food, &c., in usual immense quantities, but those caught in August and September on the banks between Caraquet and Miscou were not as plentiful as usual.

The catch of codfish was very large and prices higher than for many years which made this a most profitable season for those engaged in this important fishery, and will lead to considerable additions to the number of vessels and boats employed.

Smelts were plentiful but want of frost at the first of the fishing season as in 1898, makes the catch only about an average one, and goes to show that it is impossible to depend upon a fixed date to commence, as while some years fishing could safely begin on or even a little before December 1, in other years (as in past two or three) considerable quantities of fish caught on and after this date are lost for want of cold weather. This is certainly a very important fishery realizing hundreds of thousands of dollars in cash at a time of the year when there is very little other employment for many of those engaged in it.

The quantity of oysters taken will be rather under the average, but several thousand barrels of hard shell clams (quahaugs) have been raked at Buctouche for the American market. The high prices prevailing for lobsters has still further stimulated this fishery, and more traps and gear were put out than ever before, the result was an increased catch in the Straits of Northumberland, but scarcely as many on the other parts of the coast, making the aggregate pack a little above that of last year.

Mackerel were even scarcer than usual, very few of these fish are now taken except off the coasts of Kent county where a large number of boats and several steam tugs are employed fishing and collecting the fish.

63 VICTORIA, A. 1900

The catch of bass will be somewhat smaller than in 1898.

Outside of these several kinds named, which are the principal fish taken, there will be not much change from former years.

PRINCE EDWARD ISLAND.

Inspector J. A. Matheson, of Charlottetown, states that the values of the fisheries of this province will be in excess of last season's. Owing to the high prices of cod and hake, that branch of the industry has been more vigorously prosecuted. The catch of lobsters in Queen's and King's counties has been larger than last year, but in Prince the catch will be below the average. Mackerel still continues scarce, but a few small fish appeared on the coast, which may be an indication of those fish again returning to our waters, which would be a great boon to our fishermen. The oyster catch in Prince county has been larger than last season, and the beds appear to be well stocked. Prices were sustained throughout the season, and those engaged in the business have been well remunerated, but in other parts of the province the catch was below the average. All other kinds of fish were taken in about the usual quantities.

PROVINCE OF QUEBEC.

Comdr. Wakeham, M.D., the officer in charge of the Gulf of St. Lawrence Division, reports an increase in the general return from the fisheries for the season of 1899, over both the previous years. This will be due entirely to the improvement in the cod and herring fishery in Gaspé and Bonaventure. On the Labrador the summer cod fishery failed as in 1898, but in August and September the off shore fishing was good, had it not been for this there would have been considerable distress on the Labrador. The salmon fishery on the north shore of the gulf was about an average, but in Gaspé and Bonaventure, it was much below an average run. As the rivers are reported well stocked with breeding fish, it is the general opinion that the bulk of the fish ran in after the netting season was over. No salmon nets were fished on the Quebec side of the Restigouche, the Restigouche Salmon Club having purchased the net fishing rights from the Quebec Government. On the New Brunswick side of the estuary, the nets were fished as usual. The lobster pack will show a very decided falling off. Mackerel were abundant at the Magdalen Islands in the spring, and a good fall fishing was looked for, but an unusually heavy northeast gale occurring on September 4, the fish seemed to be driven off and never returned. The smelt fishing has been good. Prices paid for fish have been high. The crops have been abundant. The fall has been open and free from heavy storms.

Inspector Nap. Lavoie, M.D., of L'Islet, reports: On that part of the counties of Bonaventure and Gaspé fronting on Bay des Chaleurs, cod fishing was good. Bait was abundant at all times, and very few heavy storms occurred during the fishing season. Prices were almost double. The fish also appear to have returned in numbers to banks which they had forsaken for several years past. Salmon net fishing was comparatively poor, but prices ruled high. Salmon angling was far from being a success. The prevalence of east winds, and the slow disappearance of ice from the shores are instanced as reasons for this ill success. Herring fishing was excellent, and prices were one hundred per cent better. Lobster fishing, about the same as

last year, although the results are far from comparison with those of fifteen or eighteen years ago. The reason lies in the fact that these crustaceaus have been overfished, and that some grounds are completely exhausted. There were in operation last year, 31 canneries in Gaspé and 9 in Bonaventure. Some of these did no more than cover men's wages. Trout, halibut and smelt fishing were good.

Most of the above remarks apply to that part of my division which extends from Gaspé to Matane. Cod and herring especially were abundant, and prices most remunerative.

On the south shore of the River St. Lawrence, from Matane to Beaumont, the scanty information which I was able to procure leads me to believe that the total yield of the fisheries is somewhat better than last year; Herring and eels especially turned out well, while mackerel and shad failed in several localities. Salmon and bar fish seemed to be less abundant than in 1898.

Inspector A. H. Belliveau, of Ottawa, who has charge of the western division of the province of Quebec, reports as follows: After the province of Quebec assumed control of its inland fisheries, according to the decision of the Privy Council Judicial Committee, I was one of the three inspectors of fisheries appointed by the Federal Government to replace the large staff of overseers whose services had recently been dispensed with. This district comprises that part of the province lying south-west of the Saguenay River and Bellechasse county, including 56 constituencies.

While the issuing of fishery permits is conceded to the provincial authorities the regulation of the close season, the reservation of certain waters, as well as the particular conformation of fishing implements, etc., is still vested in the federal power, hence the necessity of continuing a few officers in charge. If the protection of fisheries is our mutual object, it becomes most important that friendly feeling should prevail between both authorities. For my part, I may be here permitted to testify that I have been well received everywhere by the provincial officials from the Hon. Commissioner to the humblest of his fish and game keepers. It will be beneficial to the general protection of fish, as well as advantageous to officials. that they should meet occasionally. In a few moments of conversation, the inspector may impart to the new officers more explanations respecting his duties, &c., than could be accomplished by months of correspondence. The inspector, at the same time, acquires practical knowledge rehabits of certain species, or the make up of different fishing gear, &c. For over twenty years, I had been issuing licenses for fishing implements with which I was not familiar, and I was very much interested in seeing them in operation last summer. No doubt that occasional visits from the inspector also strengthens the hands of the conscientious officer who may feel somewhat reluctant or indifferent in enforcing obnoxious enactments, perhaps against his immediate neighbours. Thus he will inform these fishermen that instructions received must be enforced, as he knows not when the inspector might return and censure him for neglect of duty. This moral suasion will have the double beneficial effect of awakening the apathy of the indifferent overseer, as well as deterring a great many from participating in illegalities which otherwise they would not have refrained from. Overseers, who had been under our regime, expressed regrets that our acquaintance should have been deferred until after our official separation. However, it convinces me all the more of the usefulness 11a - D

of a personal inspection of subordinates. It is true I had no direct orders to give to the employees of the local government. Although serving different masters, our aim and object should be identical, and I could at least advise most of them, by answering their questions, at the same time judging who were best adapted or fitted to perform the fisheries protective duties entrusted to their charge. Unfortunately a few of these officers with magisterial powers were found quite illiterate not able even to sign their names. It would be difficult for such to institute legal procedings against offenders as well as inspire the respect due to their positions in their respective localities. During my visit I found an overseer living over thirty miles from his division, who would thus have a sixty mile drive to commence the inspection of the insignificant stream under his charge passing by another officer whose salary would perhaps have been curtailed to pay this useless guardian. The Provincial Government should utilize the services of every game keeper as a fish warden, by giving them special instructions respecting the protection of fish life. Some of the local officers receive no other compensation than the occasional fines they might impose upon convicted poachers. I do not believe this system of remuneration conducive to efficiency. Let the emolument be ever so small, but let it be a fixed one, otherwise the official is looked upon as a spy and informer; and as such, is despised by nearly the entire community, instead of receiving the assistance of well disposed citizens to secure convicting evidence. Poorly remunerated officers will render poor services in the protection of either fish or game.

As the season was rather advanced when my appointment was confirmed, I found it impossible to visit every part of the large district confided to my supervision during the first summer. However, I visited many fishing localities on the mighty St. Lawrence from the United States boundary line to the Saguenay River with its principal tributaries, such as the Ottawa, the Richelieu, the Yamaska, &c., which form the main portion of my district. The large lakes of St. François, St. Louis and St. Pierre, merely enlargements of the St. Lawrence, are still considered important fishing centres, especially the latter.

Notwithstanding their apparent insignificant importance to the casual observer even in their somewhat exhausted condition, the yield of the fisheries of this district exceeds annually \$150,000. It is useless to attempt denying that, not only fish are becoming scarcer in the old settled localities and are also falling off in size, but that the finer grades are making way to coarser species now frequenting our public waters. A visit to the fish markets of our large cities, especially the Canadian Metropolis will convince any one of the above facts. So small are some kinds of fish, that it seems a regrettable shortsightedness on the part of the fisherman who captures them alive, not to have liberated them; but so long as he is tolerated in his offering for sale such immature fish with impunity, so long will he continue to sacrifice quality to quantity. For instance, it is pitiable to see on the markets sturgeon under twelve incles in length, a fish that grows so rapidly, and which would become so valuable in in a few years, if only allowed to escape the small meshed gear. The same remark applies to pickerel, pike and other species. On several occasions large quantities. mostly from the Sorel district, have been seized and condemned as unfit for food by our officer Mr. Riendeau, who keeps a close watch on the Montreal fish markets as well as on the different boats supplying them from Chateauguay to Yamaska. Sub-

section 9 of section 14 of the Fisheries Act chap. 95, should be so amended as to specify a minimum length or weight of the species it seeks to protect. Once the fishermen are duly notified that certain kinds of fish of a stated length or weight are liable to confiscation on sight, there would be less tendency to decrease the size of mesh in their gear and the market supply would at once improve. On the Bonsecours market, one meets fishermen from Valleyfield to Nicolet, and it is amusing to note how the Chateauguay and Boucherville seiners will complain of and protest against the verveux of the Sorel and Grand-Nord divisions, while the owners of the latter complain against the use of the seine. To a certain extent, both contentions are right. The seine is a destructive engine, the use of which if not entirely prohibited should at least be confined to certain localities where no game fish are known to spawn and limited to early spring and late fall fishing when the water is cold and the coarse fish is firm and in good condition. The verveux or hoop net is only objectionable in the abuse of its conformation, either in its small mesh, length of wings, leaders, etc., or to its being set so as to bar the passage of fish in narrow streams. In both these fishing engines, the fish are captured alive and there is no excuse for not liberating any immature or game fish which the law choses to protect.

Judging from the number seen around the residences of fishermen as well as those still set in the bays of Lake St. Pierre, I am of opinion that most of the fishermen own eight, ten or twelve of these verveux each, and some had even as many as twenty-five, while nobody held license for more than four or five. As they bear no marks of being licensed implements, it is difficult for the officer to discriminate which are illicit or not, but it is quite certain that the licensee of a couple of verveux uses four or five perhaps more, while many have no licenses at all. These are set in such a way that the indicating pole is cut under the water, thus nothing appears to the unobservant. It is estimated that there are no less than 3,000 such fishing engines around Lake St. Pierre and it is doubtful whether 300 pay license fees. The shallow bays in the vicinity of Sorel as well as those of Yamaska County, all in Lake St. Pierre, are well adapted to this kind of fishing. Some stringent regulations should be adopted once for all to preserve this mode of fishing to be strictly enforced. I made a special report on this subject when visiting Lake St. Pierre, which is on the proper file of the department.

Special reports were also made after my visits to the Chateauguay division, where, owing to a misunderstanding, more licenses were issued than formerly, as of recent years it was the intention of our department to curtail netting as much as possible in both Lakes St. Francis and St. Louis. The Federal Government kept these waters for angling, trolling and night lines purposes only. Their proximity to the boundary line makes the upper part of Lake St. Francis a fashionable summer resort, so the residents in the vicinity of Dundee were more than surprised to learn of the issue of a license to a privileged individual for twenty-five hoop-nets and four gill-nets, who also claimed exclusive fishing privileges for about twelve miles of the lake coast. One night fourteen of these hoop-nets disappeared, and were either destroyed or perhaps used by the poachers in remote bays or creeks where they could more easily escape detection in their nefarious work. I also reported on the fishing districts of Yamaska, Richelieu and Ottawa rivers suggesting the recommendations I thought best for their preservation.

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The different close seasons are now better observed especially in the Montreal districts. No fisherman would dare to bring any protected fish there during its close time. Generally fishermen now better understand that such protection is carried on for their best interest.

Without pretention of being an authority respecting close season for fish, I cannot help alluding to what seems an anomaly in the time fixed for maskinonge in Quebec, commencing on May 25 and ending on July 1, while in Ontario the season begins on April 15. That is, on one side of the Ottawa River, for instance, one can fish for maskinonge during five weeks of the close season on the other side. From what I have heard, these fish are done spawning by the time the close season commences. The Ontario season seems the right one, as these fish are reported spawning the last week of April and the first two in May.

I inspected several saw mills especially in the counties of Montmorency and Levis with regard to the escaping of saw-dust and rubbish in the streams, reporting specially in each case.

I took a hand at the distribution of fry in the lakes of Terrebonne county, and labelled some lobster cases for shipment from Montreal.

As instructed, I also held an investigation in the county of Rimouski respecting the payment of bounty claims for that district. As a result, over twenty-five per cent of the claimants were refused bounty for that year, the principal objections being that these parties were not genuine fishermen fishing for three consecutive months, but held other occupations, although capturing the required quantity.

ONTARIO.

Inspector A. G. Duncan of Marksville, who has been appointed for the Western division of Ontario, reports a falling off in the fisheries of the North Channel of Lake Huron from St. Joseph's Island to Little Current, where whitefish and salmon-trout are steadily declining and sturgeon being almost depleted, while pickerel are becoming the staple fish of the locality. This diminution is ascribed to overfishing with pound-nets of too small a mesh. On the south side of Manitoulin Island in the vicinity of Duck, Squaw, Fitzwilliam and Bustard Islands there will be an increase in the yield of whitefish and trout. Lake Superior will also show an improvement in the catch of its staple fishes. In Lake of the Woods district, the yield will be about equal to the previous one. Sturgeon seem as plentiful there as ever and it is stated that most of the caviare exported from the Dominion, now comes from that district.

Mr. Duncan recommends that a fish hatching establishment be located at Sault Ste. Marie, so well situated to serve both Lakes Superior and Huron. Many poachers took advantage of the unorganized state in which was the license system and enjoyed the best part of the spring fishing unmolested. The most of the illegal fishing in the eastern part of his division was carried on between Little Current and Bad River and in the vicinity of the Bustard Islands, also between Bruce Mines and the west end of St. Joseph's Island. On a single day four seines were seized and many doubtful boats in sight could not be overhauled, he is of opinion that he has somewhat checked the violations perpetrated in this vicinity.

At Rosseau's Point, Port Caldwell and in Jackfish Bay he found different parties with tugs and nets fishing openly. These were genuine fishermen, ready to pay license fees when called upon to do so by the properly authorized officer. He does not believe that the fall close season was well observed as nets of all kinds were used. Two boats and some nets were seized during this time. According to Mr. Duncan no nets of any kind should be allowed to be used during the close season for whitefish.

Inspector F. H. Cunningham, of Ottawa, submits the following report on the fisheries of the Eastern division of the Province of Ontario for the year ended 31st December last.

This division was formulated by order in council and comprises all that part of the province of Ontario east of a line coinciding with the western boundary of the counties of Durham, Victoria, Haliburton (including the waters of Lake Scugog) and the eastern boundary of the district of Muskoka and Parry Sound.

This division, whilst not so important from a commercial point of view, is very important from the angler's standpoint, the waters being frequented by nearly all the varieties of sporting fish of the finest kinds. It is important not only for rod fishermen that these fish should be protected but the community at large benefit very materially from the influx of sportsmen to the various fishery resorts, especially those opened up by the Parry Sound railway. Not only are these waters worthy of the best protection that can be provided, but artificial means should be taken by the department to increase the supply of sporting fish in these inland lakes. The Ray of Quinte affords splendid bass fishing and the neighbourhood affords good facilities for artificial reproduction of this species at a small cost.

The fisheries of the province being handed over to the local government just previous to the spring close season, the difficulties connected with the organization and appointment of an entirely new staff of officers made it impossible to prevent illegal fishing. Consequently all through the eastern division illegal work was done, This was especially the case at Rice Lake, where, owing to the location of the spawning grounds, fish can be very easily secured by poachers unless efficient protection is afforded. Fishing throughout this division has been good during the past season. Glowing reports have been received of the excellent fishing in Charleston Lake. This is attributed to the fact that considerable quantities of fry have been placed in these waters for some years past, and points to the success of artificial fish culture.

Whilst the most important fishing points of this district have been visited during the summer, a considerable portion has yet to be inspected, this refers mostly to inland lakes.

Considerable inconvenience has been caused, and in fact the work of the Dominion inspector has been retarded through the action of the provincial fisheries branch in neglecting to supply this department with a list of their officers, and also a list of the licenses issued. This information would greatly facilitate in the proper performance of the duties of a Dominion inspector.

Numerous objections have been made to the present close season for salmon trout, the claim being made that the first of November is too late, and the close

season should commence on October 15 and end on November 15. This would cover the spawning season for this species in the eastern district. From such proofs as I have been able to procure, I am strongly under the impression that steps towards changing this close season should be taken, and, if approved, I will make further inquiries in this direction during the coming summer, and will take some definite means to ascertain the exact time of spawning next fall.

Inspector O. B. Sheppard, of Toronto, says: The catch of commercial fish this year has been an exceptionally good one. In the Lake Huron and Georgian Bay district, the catch of trout has been considerably above the average, while that of whitefish, pickerel, herring and sturgeon has been fully up to the average. In Lake Erie the catch has been exceptionally good, the catch of sturgeon being considerably above the average, while all other kinds have been fully up to former years. The long open season has made the herring fisheries specially good, the late run being the best for years. Herring season usually closing about the last of November, this year has been prolonged on account of mild weather till the end of December, with very satisfactory results to the fishermen. The prices of all commercial fish have been maintained, and the fishermen in my district have had an excellent financial result. The good fishing this year can no doubt be traced to the excellent protection service of the Dominion government during past years, and I am sorry to say the provincial government has not during the past season taken such active and drastic steps to protect the fisheries as has been done heretofore, and if this is not remedied in the near future, we may speedily look for a diminution of the catch in this district. Of course the provincial government has only recently taken hold of the protection of the fisheries, and had not the experience of the Dominion government in this matter, and will probably, as the requirements become known to them, take more active steps than has been done in the past year.

Rod fishing for black bass, maskinonge and brook trout has not been nearly so good as in former years, due, in my opinion, almost entirely to the want of proper protection. This part of the protective service has been sadly neglected in the inland lakes and Georgian Bay district, and if not looked after more carefully in the very near future, will result in thousands of tourists staying away from our northern inland lakes, and the loss of a great amount of money which they yearly spend for fishermen, guides, boatmen, hotelmen, and other expenses.

NORTH WEST TERRITORIES.

Inspector E. W. Miller, of Qu'Appelle, says:—'The general condition of the fisheries in the North-west Territories is reported on favorably by nearly all the local officers; but there has been a falling off in the amount of fishing done in the more settled districts owing principally to the great demand for labour in other branches of industry. The heavy rainfall of the season cannot fail to have a very beneficial effect on fish life in the smaller rivers and lakes, many of which had become so diminished in volume as to drive all fish from them. The rivers continued in flood for a lengthy period and the usual destruction of spawning fish by traps, &c., was thus almost wholly prevented. The few whitefish lakes in Assiniboia are much in need of restocking with fry, former adverse reasons and persistent fishing having much

depleted them. The large Northern Alberta lakes, particularly lakes Ste. Anne and La Biche, have made most satisfactory progress and promise to soon recover their old time prolifieness. The fisheries in the Prince Albert district are in good condition but owing to the cessation of the export trade, considerably less fishing is done than formerly. It was found necessary to close the Cedar Lake sturgeon fishery for the summer, the great demand for caviare tending to encourage more fishing than is consistent with the permanent preservation of this valuable fishery.'

BRITISH COLUMBIA.

C. B. Sword, the recently appointed inspector of fisheries for British Columbia reports as follows:-- 'The pack of salmon for this year has been considerably (more than 50 per cent) above that of 1898 though not reaching the pack of 1897 by 250,000 cases. There has as in 1898, been a considerable shipment to Japan of dry salted salmon of varieties (the 'dog-salmon' and 'humpback') formerly looked upon as of no commercial value. Some of these have been put up by some of the packers in cases as an experiment with very encouraging results. The business of exporting fresh salmon in cold storage also shows a satisfactory development, there being an increase of about 1,000,000 lbs. over the amount exported in 1898. Of barrelled salt salmon the amount is 850 barrels more than in 1898. The catch of sturgeon has fallen off considerably, being only 278,650 lbs. as against 1,137,000 lbs. in 1897. and 770,000 lbs, in 1898. Only one company is engaged in the business of shipping halibut. They report the result of their year's operations as very satisfactory. Four additional canneries were established on the Fraser River in 1899, and there will probably be several built at different points on the northern coasts during the coming season. The salmon fishing is the only fishery in British Columbia which can be considered as having been prosecuted to anything like its capacity, our deep sea fisheries being still practically untouched.'

PARIS EXHIBITION, 1900.

The Department of Marine and Fisheries is taking its part in preparations for an adequate display of Canada's vast piscine wealth at the Paris Exhibition, 1900. Several shipments of cases containing specimens of fish, aquatic birds, fishing products in great variety, have already been made to France, and the exhibit is not only designed to be illustrative of all the marine and fishery resources of the Dominion, but will be so arranged and displayed as to attract wide attention, and to form, it is anticipated, a notable feature in the representative displays of all nations, thus acting as an educational agency, and a means of disseminating broadcast a knowledge of the products of the Dominion.

I have the honour to be, sir,

Your obedient servant,

F. GOURDEAU, Deputy Minister of Marine and Fisheries.

SPECIAL

APPENDED REPORTS

BY

PROFESSOR E. E. PRINCE

Dominion Commissioner of Fisheries

- 1. WATER POLLUTIONS AS AFFECTING FISHERIES.
- 2. NEGLECTED STRUCTURAL FEATURES IN YOUNG FRY.
- 3. THE OBJECT OF A CLOSE TIME FOR FISH.

1899

SPECIAL APPENDED REPORTS

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WATER-POLLUTIONS AS AFFECTING FISHERIES

BY PROFESSOR PRINCE, COMMISSIONER OF FISHERIES, OTTAWA.

Fishery legislation in different countries bears testimony to the importance universally attached to the evil effects of water pollution upon fish life. Clauses are, as a rule, found embodied in codes of fishery regulations, with the object of directly or indirectly preventing the poisoning and polluting of waters inhabited by fishes. Yet the true relations of the various polluting agencies to the conditions of fish-life are little understood generally, and the nature of diverse injurious influences, the different modes in which foreign matters affect the finny tribes, that is to say, the comparative harmfulness or harmlessness of what are known as deleterious matters, have never been thoroughly and exhaustively tested and investigated. There can be little doubt that many ideas which are prevalent upon this subject have little basis in fact, and it is unquestionable that many well-meant attempts to cope with the supposed evils of river- and lake-pollution have been made without adequate knowledge. The object, of course, is to prevent the wasteful and wholesale destruction of fish, whether by design, or by negligent poisoning of waters: but the question remains to be decided as to what agencies, usually called pollutions, are really harmful to fishes and harmful in such a degree that serious and extensive destruction results. In England the existing laws are extremely severe upon this matter, but no doubt cases continually occur in which it is difficult, if not impossible, to prove clearly that the fisheries are injured, and, as Sir Frederick Pollock has pointed out, offenders may evade the law, or at any rate escape the penalties, if steps have been taken to render innocuous the alleged deleterious substances which have caused the pollution. As the authority named says:

"Dynamite or other explosives must not be used to catch or destroy fish in a public fishery in any part of the United Kingdom, or in the adjacent seas within a marine league of the coast, nor in a private fishery in England, on pain of fine up to £20 or imprisonment, which may be with hard labour, up to two months. The poisoning of any salmon rivers, as well as of any waters where there is a private right of fishery, with "any lime or other noxious material," in order to destroy fish, is anoffence punishable with penal servitude up to seven years. Pollution of salmon rivers "to such an extent as to cause the waters to poison or kill fish" (though not intended to have that effect) is punishable by fine on an increasing scale, ending in £20 a day after a third conviction. But the party may escape these penalties, if his act in sending refuse, or whatever it may be, into the river, is not otherwise unlawful, and he can show that, being thus in the exercise of his right, 'he has used the best practicable means, within a reasonable cost, to render harm less the liquid or solid matter so permitted to flow or to be put into waters.' Probably it is not difficult to satisfy justices of this in a manufacturing district; again, if the stuff poured into the river is so noxious that there are not any practicable means at all of rendering it harmless, it is by no means clear whether any penalty is incurred. The person complained of may also, if a decision against him would cost him more than £100, require an action to be brought in the High Court of

justice to settle the question whether he has used the "best practicable means," and it is not hard to guess what, on such a question, the bias of jurymen in a manufacturing country is likely to be."

Briefly stated, pollutions, so far as rivers, lakes and tidal waters are concerned, may, in their nature and effects, be physically or mechanically deleterious, like sawdust or the mud and gravel resulting from hydraulic mining, or they may be chemically injurious, and in a larger or less degree poisonous, like lime, drugs, waste of dye works, pulp and paper mills, etc., or they may be physiologically deleterious, but not toxic in the gravest sense, inducing unhealthy conditions in the fish, such as appears to result from putrescent matter, sewage, decaying animal and vegetable substances, etc. The Canadian Fisheries Act aims to include all these, and subjects to specified penalties every person who causes or knowingly permits to pass into, or puts or knowingly permits to be put lime, chemical substances or drugs, poisonous matter, dead or decaying fish, or remnants thereof, mill rubbish or sawdust or any other deleterious substance, in any water frequented by any of the kinds of fish mentioned in the Act, Chap. 95, 1886, s. 15, ss. 2, amended by chap. 51, 57-58 Vict., s. 6.

It is not necessary to prove the deadly character of the polluting substances. The provision does not, however, apply if it can be shown that the fish inhabiting polluted waters are of inferior kinds, not mentioned in the Act or regulations under it. Thus, injury to eels or fresh-water ling is not included, but the prohibition applies in waters inhabited by salmon, trout, etc., and it is interesting to note that it embraces the triple division of injurious substances, to which I have alluded, for lime, chemical substances and drugs belong to the essentially toxic or poisonous group, sawdust is really a physically deleterious agent, and the other undesirable substances may be said to include pollutions which affect fish life in ways differing from those

directly destructive to life, or physically noxious and morbid in effect.

For many years it was thought that the deadly fungus, commonly called salmon disease (Saprolegnia), was due to river pollutions, which were supposed to encourage if not to originate the aquatic saprophyte. Researches have shown that this is not the case, and outbreaks of salmon disease have repeatedly occurred in waters in which there was no special pollution whatever. Not only so, but the detested fungus frequently appears first in the upper waters, and it is indisputable that salmon on entering rivers from the sea are without exception in a healthy condition. Water in which lime is present in appreciable quantities appears very favourable to the growth and development of fish fungus, but the plant cannot originate unless the spores are there either as minute oospores, or as zoospores, which are really a very early stage of the fungus growth. The spore germs multiply and disperse so rapidly that the infection of every fish in a salmon river may be effected in a comparatively short period—healthy fish as well as weakly and injured fish, though the latter are attacked more readily.

But deleterious substances differ not only in themselves, so far as their direct influence upon fish life is concerned, they also vary in their injurious potency according to the circumstances and the places where introduced. Substances may be seriously harmful in a slow-running river, which are comparatively harmless in a swift stream, and I cannot fully agree with the view of certain eminent authorities that it is little or no advantage to keep pure and free from pollution the upper waters if the lower waters and estuaries are allowed to be filled with impurities. Indeed there is force in the contention of Boccius that 'the true cause of the depletion of rivers originated and begun in the destruction of the egg, and not in the fish, when once brought into being. The experiments of Mr. A. Hansen, on the Norwegian River Soli, in 1872, prove that unfavourable conditions in the lower waters are of far less moment than they are in the shallow headwaters, as Prof. Rasch has pointed out in his paper entitled 'Is sawdust an obstacle to the ascent of fish?' The estuaries of certain rivers on this continent are polluted with saw-mill waste, etc., yet the injury done does not compare with that which would follow the pouring of saw dust, edgings, etc., from the mills into the upper waters. Such waste would cover the spawning areas, where the eggs are deposited and where the fry pass their first days. The Fraser River, B.C., has for twenty years been polluted to a frightful extent with

the refuse and offal from dozens of large salmon canneries. This offal composed of heads, fins, tails, entrails and fragments, which it does not pay to utilize, is dumped into the water near each cannery. At first it sinks, and then it rises to the surface, chiefly on account of the expansion of the gases formed in the swim-bladders and intestines. A prominent New Westminster fisherman, who gave evidence before the British Columbia Fishery Commission, 1892, (printed at Ottawa, 1893), said: 'I think at the mouth of the river its effect is very bad. Down there it floats and lines the banks and gets foul of the nets-heads, guts, etc. It destroys the nets more than the salmon do and makes the water filthy—not fit for use unless cooked.' Many fishermen on the Fraser River hold these views, and claim that it deters the fish from coming in. But it is by no means established that it is detrimental to the incoming schools of fish. The Joint Fisheries Commission, 1896, indeed reported as follows on this question:—'The cannery people everywhere are confident that no harm results from their method of disposing of the offal, unless it be in certain restricted areas where the eddies cause its retention for a time. During the greater part of the canning season the volume of water in the Fraser River is large, its temperature is low and the current strong. The offalin a fresh condition is said to sink at once and to disappear. The inhabitants, generally, along the river oppose the practice on the ground that it is injurious to health, from which standpoint, however, the question is not of international significance. With respect to the open waters of the Sound, we have heard of no complaints regarding this matter, although some of the offal is known to wash ashore in places. No evidence has been obtained which shows that the throwing in of the offal has had a pernicious effect upon the movements or the abundance of the salmon. If such an effect has actually been produced, as may be the case it has not, up to the present time, made itself sufficiently manifest to bring it within the scope of observation. We are led, however, to deprecate the continuance of the practice for local reasons at least, and would urge further experiments looking to the utilization of the offal as an incentive to its retention on land.'

In the cod and mackerel fisheries, as well as in the lobster canning industry, great quantities of offal are as a rule accumulated, which are dumped into the sea close to the places where the fishing or the canning is carried on. So vast was the quantity thrown into the inshore waters along the Labrador coast and the north shore of the Gulf of St. Lawrence that a special prohibition was enacted to prevent the abuse which, it was claimed, was driving the schools of cod away. Along the shore referred to the cod come in very close in immense schools, and are taken to a large extent in fixed traps or pounds. A similar injury was said to have been done to the schools of mackerel off the Atlantic coast of Canada, especially by United States mackerel schooners, which cleaned and split their fish on board and threw over the 'gurry.' The harm done by lobster canneries has no doubt been exaggerated, as the quantity of foul refuse is limited as compared with the 'gurry' from fish curing operations.

Taking up the question of water pollution as produced by agents which are essentially physical or mechanical in their effects, and which do not in any degree, or in a very small degree, act as chemical poisons, or as physiologically harmful, it is doubtful to what precise extent such physical agents, say, suspended particles of sawdust, or gravel, injuriously, affect fishes in the adult condition. It is true a widespread impression prevails that such suspended foreign matters are most harmful. This impression has little accurate or scientific basis, but it has been stated and restated with the utmost confidence. Thus in a report of this department published in 1889, Part II, p. 12, the following emphatic expression of opinion

appeared:

The poisonous effects of sawdust, when allowed to pass into rivers and streams, are so manifold and self-evident to the rational or practical observer, that it would appear almost needless, in the present enlightened state of the world, to require any special pleas or arguments to convince even the most sceptical person of its disastrous workings upon all aquatic life, of an animal or vegetable character, found in the tidal, lacustrine or fluvial waters of any country. Wherever mill-dams have been built across streams, and where sawdust, mill rubbish and other deleterious substances have been cast into the water from saw-mills and other manufactories,

fish life and vegetation of all kinds have been greatly lessened, and in many instances wholly destroyed. This is particularly noticeable amongst the higher order of fishes, especially the salmon family, which are largely of a migratory nature, many of them ascending rivers and other streams for breeding purposes. These waters are usually of the purest, coldest and most limpid description, and therefore best adapted for the propagation of the salmon species. These fish at the time of the first settlements of Canada were found frequenting almost every river and stream emptying into the sea, and the great lakes also. So plentiful were they in many of our waters, before the lumbering industry took such a strong hold in the erection of dams and saw-mills, with the consequent injurious effects from them upon fish-life that fish of all kinds were in great abundance. They were freely used by the inhabitants generally for domestic purposes, and also produced a large amount of traffic and commercial wealth for the country. But as the saw-mills and mill-dams increased in numbers with greater capacity for their work, the mill-dams formed impassable barriers to the ascent of salmon and other fishes to their natural spawning grounds above—and then the hurtful and pernicious effects arising from the sawdust and mill rubbish being constantly east into the streams poisoned the spawning beds below, and stayed the growth of all vegetation, thus driving away insect life, which is the principal sustenance for fish in their younger stages of existence. As this improvident work of the mills increased in magnitude, so did the yield of all kinds of fish decrease in these waters until it has been found in some cases that, after stripping the neighbourhoods of all lumbering material and destroying all fish-life, these mills have gone into ruin and decay, leaving sorrowful mementos only of their destructive workings in the waters of the country for the inhabitants who follow after. It is, therefore, of the greatest importance that any law which provides 'that sawdust or mill rubbish shall not be drifted or thrown into any streams or other waters frequented by fish, should be maintained and strictly enforced wherever the continuance of fish life is held to be of any benefit to the people. There are yet to be found sufficient numbers of fish, natives of the rivers and other waters, left, from which, by proper protection and good husbandry, an immense supply of fish food and commercial wealth would be readily obtained for the general benefit of the inhabitants of the several sections of the country. Sawdust, as previously stated, is manifold in its range of destruction when allowed to be cast into waters to which fish are indigenous, or where animal or vegetable life is to be sustained. It is an artificial product, alien to and engendering latent diseases of various kinds, with fatal results in all waters where fish life exists.

That mill-dams and other obstructions seriously damage rivers and waters resorted to by fish cannot be questioned; but this damage would be done even though no sawdust whatever were thrown in them. Further, the contention that sawdust in the streams is offensive to the fish and has caused them to forsake their accustomed haunts, as Dr. Milner some years ago claimed, has never been proved, whereas there is abundant proof that most fishes are not deterred by the floating particles of saw-mill waste. In the New Hampshire Fishery Commissioner's Report for 1885, it is asserted that harm arises from 'the sawdust getting into the gills of the parent-fish'; but there is no case on record of salmon, or shad, or any other healthy adult fish, being found choked with sawdust or in any way fatally injured by the floating particles.

When I accompanied for a time in 1893 the International Commissioners, at the request of the Hon, the Minister of Marine and Fisheries, nothing astonished me more than the extent and serious nature of the sawdust pollution on certains tributaries of the St. John River in New Brunswick. The main river is largely subject to this pollution, but not in any degree to the extent that obtains on some of the tributary rivers. The Aroostook River, which for over 100 miles runs through the State of Maine, and only during the last four miles of its course passes through New Brunswick is a flagrant example. Some of the largest lumber mills in that part of the country occur on its banks, and the lumber industry is of immense extent. Nothing could be worse than the condition of this fine salmon river, and a common opinion prevailed that no salmon could or would ascend it. Yet at the time of the commissioners' visit quite a number of salmon had been noticed a little above Cariboo and a

fish-ladder had been provided to enable them to ascend an impassable dam at that point. Fairly large catches of salmon have been made in recent years, notwithstanding the view common a few years ago that sawdust pollution had driven them all away. This pollution is excessive, and, 'except for the small amount consumed by the steam mills, the river is made the common dumping ground for all the waste of this character," said the Commissioners 'as the most convenient way of disposing of it, no regard being had to the public interests which are thus impaired.' species like the salmon, sea-trout, brook trout, striped bass might not suffer harm, provided, as they are, with capacious mouth and branchial cavities: but it might be different with members of the herring tribe (Clupeidae), the shad, gaspereau, etc., with their small mouth-aperture studded with rows of erect teeth on both jaws, on the palatine bones, the vomer and the tongue, and provided with small rod-like gillrakers, all combining to form a cage or sifting apparatus for retaining small shrimps and crustacea upon which they so largely subsist, for these fishes might apparently be readily choked by particles of sawdust clogging up their delicate oral structures. I have not been able to find, however, that any shad, gaspereaux or other migratory members of the herring family have been found dead in quantities on account of sawdust suffocation. In other words, so far as our present knowledge goes sawdust pollution if it does not affect the upper waters, the shallow spawning and hatching grounds, appears to do little harm to the adult fish in their passage up from the sea.

This opinion I find on reference to the Report of the United States Fish Commission Part VI, 1878, was expressed by Dr. H. Rasch when treating of the sawdust question in Norway. Professor Rasch is very explicit in the statement of his views, and does not shrink from claiming that 'while it is asserted that the sawdust introduced into the river from the saw-mills causes the salmon coming from the sea either to forsake its foster stream because of meeting the sawdust, to seek another river not polluted, or else, when the fish attempts to pass through the areas quite filled with sawdust, then this, by fixing itself in the gill-openings or between the gills, causes its death, yet later experience seems to entitle us to the assumption that sawdust neither causes the salmon to forsake its native stream nor produces any great mortality among the ascending fishes. The hurtfulness of the sawdust to the reproduction of the salmon is not so direct, but is exceedingly great in this, that it partly limits and partly destroys the spawning-grounds of the river.'

He goes on to give certain details of an experiment upon the effect of sawdust on young salmon transplanted from one river to another which was much polluted

with this waste product. He says:-

'That young salmon bred from a race of salmon which has its own river, when they are set free in a strange river and one which is in an unusual degree polluted by sawdust, will not be prevented by this circumstance from returning to this lastnamed stream after their wandering in the sea, one had a convincing illustration in the great experiment instituted last year by Director A. Hanson. In olden times the salmon-shoal which had its spawning-place in Soli River could ascend to it through the then passable Soli cataract, but when they, for the sake of the increased mill-business, erected above the cataract a dam so high that the salmon could not ascend to their spawning-grounds, this salmon shoal gradually died out entirely.'

The conclusion to be drawn from such statements and experiments is this, that the gravest cause of the decline in most salmon rivers is due less to sawdust pollution which except in the breeding grounds, has principally a merely mechanical or physical effect, than to the mill-dams and other obstructions which prevent the parent fish from ascending and successfully depositing their eggs. If access is free to upper portions of salmon rivers usually less affected by sawdust and mill waste, the parent fish are not readily deterred by the pollution of the lower reaches of such rivers. The ruthless destruction of spawning fish by poachers and reckless netting is largely responsible for the decline of salmon in most cases. The question of decayed sawdust, and the effluvia resulting therefrom, is another matter. Aquatic vegetation and the minute forms of life dependant thereon are seriously injured and indeed killed off. That admits of no doubt, but this is not of great moment in regard to salmon and similar fishes, which cease to take food after entering fresh water. How far sawdust affects the smaller species of fishes is an interesting

question, and the late Frank Buckland, in some notes in which be bitterly opposed the pollution of rivers wrote:

'How very important, then, is it to keep pollutions out of salmon rivers; they may not be actually strong enough to poison or kill the fish, yet it is very

likely they will deter many from ascending the river.

I think different fish must have different powers of smell; thus gudgeon, roach, &c., assemble at the mouths of drains—the largest I ever caught was in the drain that carries the abominations of the town of Winchester down into the river. Scavenger fish, therefore, I dare say, would not care much about stinking water, but the lordly salmon will not put in an appearance in localities where his regal nose is likely to be offended by unsavoury smells.'

The presence of small species of fish indicates the presence of microscopic food, and if that kind of food be present there is little doubt that the young salmon, if the upper waters be kept pure and unpolluted will survive their journey down to the sea

when one or two years old.

On the whole therefore it cannot be maintained as proven that such pollutions as sawdust are seriously detrimental to the ascent and welfare of adult fishes. In the North-west Territories certain coal mines have begun to pour out dust and coal refuse into tributaries of the Bow River and other trout waters. It remains to be seen what kind of injury, if any, will be done to the various species of trout frequent-

ing the rivers flowing from the Rocky Mountain Range.

Certainly it is hardly possible that any rivers in the world are more densely charged with physical impurities than the Fraser, the Skeena and other Pacific The muddy character of these great rivers always surprises the visitor, who has heard of their pre-eminence as salmon rivers, and the ideal salmon rivers are sparkling crystal waters. These Pacific rivers are vast streams of dilute yellowish brown mud. No contrast could be greater than that of these western salmon rivers and the bright and clear waters of Eastern Canada, or of Scotland and Ireland. Yet the physical impurities of the Pacific rivers have no apparent effect upon the fish, which blindly push their way up the beclouded current until they reach the purer upper waters. The fish can practically see nothing in their ascent, nor can they be seen by man except in some shallow eddy, where their black backs are visible protruding from the mud-laden water in which they are living. The muddy character of these salmon rivers enables great quantities of floating drift-nets to be used, and the schools of fish in their endeavour to ascend push their noses against successive walls of nets and as the meshes become filled with nosed fish, the rest descend and pass under the net only to mesh in the next net further up, and only those which pass net after net in this way reach the waters above fishing limits and continue their ascent up the descending murky current for hundreds of miles. These rivers are fed by tributaries which pour through channels of gravel, gravel famous for the rich intermixture of gold, so that the waters are yellow and turbid for great distances and it is only in the lakes and small upper tributaries that the water is free from diluvium.

The evil effect of this diluvium and of deposits of sawdust falling upon spawning grounds must be admitted, and the killing off of fish-food is another serious aspect of the matter, though this latter question, as already pointed out, is of minor account in regard to salmon rivers. An illustration of the alleged far-reaching effect of sawdust pollution may be found in the Bay of Fundy. In the vast upper stretches of this bay immense schools of 'fall' shad resorted in August to feed. The food, it was generally thought consisted of annelids or shad-worms. In recent years the shad have fallen off so seriously that the fishery is of little account compared with its former extent and value. Sawdust it is claimed floating out of the mouths of New Brunswick and Nova Scotia rivers, has been deposited by the tides upon the feeding grounds, and the shad-worms or food of the shad has been destroyed. This may or not be the case, though I have seen the surface of the sea in the Bay of Fundy covered for many miles with floating sawdust; but it must also be remembered that overfishing in the rivers in spring, when the shad are ascending to spawn, the stoppage of their ascent by dams, etc., must have had some effect, while the ruthless

slaughter of emaciated and weak specimens in their descent after spawning has no doubt had much to do with their decimation.

Chemical pollutions are so varied and complicated, and their evil effects, though admittedly evil, are so diverse that they cannot be dealt with here as briefly as purely physical impurities. Examples could be cited almost without number of the deadly and disastrous effects of deposits of waste chemical substances in rivers. rivers in the great manufacturing districts in England and the United States once abounded with excellent fish, but they were used as mere drains for the reception of foul refuse of every description, and these waters were so loaded with offensive and poisonous matter that all fish life has practically disappeared. Scarcely one river can be named in England which is not at some part of its course chemically poisoned, and the inky black noisome rivers of West Yorkshire, of Lancashire and Cheshire are evidence of the direct extreme of chemical pollution, while the southern part of Scotland (except the extreme south-west) and Clyde basin, and the eastern part of Scotland from Dundee to Aberdeen, embrace portions whose rivers are largely contaminated by distillery refuse, tan, fibre, chemical and sewage pollution. The evidences of chemical pollution where it is disastrous should be readily seen. Schools of fish would of necessity be found floating in a dead or dying condition and in course of time the waters would become clearly uninhabitable and denuded of all fish life. The corporation of Newcastle-on-Tyne some years ago poisoned Byker Burn by using a disinfectant of which caustic soda was a principal component. A flood in July carried some of the poisoned water into the Tyne, and for eleven miles every kind of fish was found floating dead or in what was called a 'fuddled' or intoxicated condition. Caustic soda or soda leys is used in many industries, very largely for the purpose of dissolving resinous matters in grass and wood fibres. The dark-coloured fluid (soda and lime) which results is highly poisonous to fish and settles as a deadly putrescent sediment unless swept away by swift currents. If the fish survive, their quality, flavour and colour appear to be transformed. Indeed Mr. Harvie Brown has pointed out that they become utterly unfit for food. The chloride of lime used in bleaching works gives off a pungent and penetrating odour, and has exceedingly disastrous results upon fish life.

Chemical pollutions, as already stated, cannot be dismissed by any inclusive or general statement, though the noxious character of such impurities largely depends upon circumstances. The amount and the possibilities of dispersion and dilution must be taken into account, and it is certain that in some cases (as in bleaching operations) the waste liquids, if commingled, must tend to neutralize mutually their injurious effects. The alkaline and soapy solutions, and the admixture of calcium chloride and of bleaching powder and certain free acids, furnish precisely the elements necessary for neutralization and purification. The chloride of lime will precipitate the soapy solutions, while the free acids will precipitate the alkaline liquids and decompose the bleaching powder solutions. Advantage has beentaken by some enlightened firms of this state of things, and without great expense they have adopted an arrangement for purification by mingling in ponds or tanks these antagonistic and neutralizing waste products. The chemical pollutions resulting from various manufactures are too numerous to refer to with any pretention to detail, but a number of more important examples may be mentioned as of special importance. Thus in paper making soda ash or caustic soda is largely used, resulting in a waste fluid of a dark brown hus charged with soda and lime and a certain amount of fibrous and resinous matter. This heavy fluid is harmful both chemically and physically, for it is poisonous, and of a nature so adherent that it lodges in and clings to the gills of fishes. Chloride of lime is also poured out from paper works, where white papers are made, calcium chloride being the bleaching agent used, while colouring matters are added to the waste in factories where blue and tinted papers are made. In recent years many other substances, china clay and mineral matters are mixed with paper pulp, all of which render still more injurious the

waste fluids poured into the rivers.

Auy one familiar with Yorkshire, Wiltshire and the west of England is well aware that the refuse from the wool-scouring, fulling, and dyeing works is of a most poisonous and polluting nature. The grease and impurities removed from the wool

as removed from the fleece are of a foul character, but still more so the refuse, a disgusting glutinous fluid, full of solid matter and rich in ammonia, which results from the subsequent process in the scouring mills. The streams into which scouring mills empty their waste becoming murky and filthy in the extreme, a stratum of hair slime and effluvium, which must choke even the strongest species of fish. Almost every stage in the various processes of textile manufacture is marked by some additional danger to fish-life. Thus the use of dyes is so extensive in some of the northern and western counties of England, that the rivers flow like streams of variously coloured ink. Many of the dyes, especially the aniline dyes, are less harmful than others, but the waste products of dye works are composed not only of fluids charged with extract of logwood, of indigo etc., but of chemical compounds used in the fixing process, called 'mordants' which may be bi-chromate and bi-tartrate of potash, muriate of tin, copperas, and these together with woolly fibres, and particles of logwood form a mixture of organic and inorganic impurities rendering even the larger streams densely turbid and deadly to fish-life. The bed of such streams becomes saturated with decomposing organic substances, and bubbles of putrescent gases continually rise giving off most offensive odours. Other textile factories such as calico print-works and bleaching houses produce similar waste products including mineral and vegetable dyes, and in a great many cases arsenic, while hydrochloric acid, sulphuric acid and chlorine occur, all of which are inimical to fish-life. Associated with the woollen and cotton-print industries there are others like the flax industry, carried on especially in the north of Ireland, which includes the process of 'retting'. Retting is really the dissolving either by a wet or dry process of the bark and other outer substances from the firm fibrous inner tissue, which is of value for textile purposes. When the flax or hemp is placed as is largely done, in streams and ponds weighted with stones and allowed to reach a certain stage of fermentation, a dark colour is imparted to the water, and poisonous gases are given off. Professor Reichardt, referring to the retting process said:-

'Taking finally into consideration the fact that 1,000 cubic centimeters of retting water contained sixty-four cubic centimeters gases, whilst repeated experiments with river water showed that the same contained only 30.32 cubic centimeters, the fatal character of the mixture will become still more apparent in its relation to the breath-

ing and life of fish.

'It cannot be doubted, therefore, that retting water will kill fish by its lack of oxygen, if from no other cause. In this all observations made on a large and small scale will agree. The fish immediately gasp for air until they become tired, and finally suffocate. Even leaving this hurtful mixture of gases out of our calculation, it must be granted that putrefying substances must exercise a hurtful influence, both directly by producing changes which are injurious to life, and indirectly by rapidly absorbing oxygen, and thereby depriving the surrounding objects of this gas which is so essential to all life.

'If only small quantities of retting water are mixed with large quantities of running water there may be no immediate evil consequences, whilst if this proportion is reversed the injurious consequences will make themselves felt very soon; in either case, however, poisonous substances are introduced in the water which had

better be kept out of it.

'The introduction of retting water into fishing waters should therefore be strictly prohibited, and has actually been prohibited in many places. The retting water may be employed much more suitably in irrigating meadows, where, owing to the loose soil, it loses its putrid character very soon, and aids in forming good food for plants.'

One observer who paid considerable attention to the features observed in 'retting' flax, noted the direct poisonous effects upon the fishes inhabiting the 'retting'

waters. He says:-

'As soon as the retting of the flax commences, the water begins to assume a brownish colour and to emit an offensive odour. This colour and odour increase in intensity from day to day, till the water has the colour of coffee, and the odour becomes so repulsive that I have often gone one-half league out of my way so as not to be obliged to pass near such water, especially in the morning and evening. The drier

and warmer the temperature, the more intense will be the odour and the infection of the water.

'Whenever the water has attained a certain degree of putridity all the fish will strive to reach the bank, gasping for air, and in such a state of torpor that they can easily be caught with the hand. If they do not speedily get fresh, pure water, they die, and remain lying on the bank, where they serve as food for birds, or are caught in the grates of mills, from which they are gathered, only to be thrown away.

'At one station I have known years when fish of all kinds were picked off the

mill-grates by the hundred-weight, some dead and some alive.'

Curious cases are on record, happily very few, of the destruction of fish by poisoning or asphyxiation, or in some other way arising from natural causes, specially the impregnation of water with toxic vegetable matters. On the great lakes of Canada there is annually a great devastation of fish, principally a species of Clupea commonly called shad or alewife, though the former name is wholly incorrect. The fish are practically identical with the gaspereaux which ascend the St. John River and other rivers on the Atlantic coast. It is stated that the fish were introduced artificially many years ago. To quote from the International Commissioners Report, 1896:—

'The alewife is supposed not to be indigenous to Lake Ontario, and the manner of its introduction is not known, but it now seems to be quite firmly established there, and is exceedingly abundant. It has no market value, although it is used to some extent as bait and fertilizer, and is supposed to furnish a large part of the food supply of the lake trout, wall-eyed pike and other species. It is said to spawn along the shores and to some extent in the creeks during the spring. This species has attracted special attention on account of the remarkable mortality which annually affects the schools. Large quantities of the dead fish become stranded upon the shores to the great annoyance of the inhabitants, and the fishermen believe that the pollution of the water and fouling of the bottom by this cause has had much to do with the depletion of the whitefish.'

Some authorities have thought that an excessive amount of vegetable matter, plant-spores, etc., which so charged the water as to impart to it an opaque green colour for a time in summer, is the cause of this mortality. I have found along the great lakes a similar mortality amongst yellow perch, white and black bass, and many small species, evidently due to a poisonous or noxious condition of the water at

particular seasons of the year.

In June, 1895, a Quebec journal L'Electeur, published a letter addressed to Sir J. M. Lemoine by Mr. Gustave Ouimet, describing a fatal epidemic which had ravaged the fish in the Richelieu River and neighbouring waters. From the widespread character of the mortality amongst the fishes it would seem justifiable to regard the fatality as due to some temporary noxious condition such as might be expected in

sluggish and turbid waters, especially during the hot summer months.

The following extract from Mr. Ouimet's letter shows that the disease or affection was not confined to the skin, upon which large round sores, red and white in colour, appeared; but the viscera and interior of the fish appeared to be destroyed, and there appears little evidence to support his theory that the cartridge and gunpowder factory on the banks of the Richelieu River, Vercheres Co., P. Q. was the primary cause of the malady. If these waters, like the more westerly waters of Ontario are temporarily rendered impure, and unfavourable to fish-life during the warmer months of the year by reason of minute vegetable matter, possibly microscopic spores of algae, and lowly plants, the widespread mortality referred to is explained, and the appearance of whitish or reddish sores upon the exterior of the fish and the decay of the internal organs are to be understood as subsequent and secondary results. The following extract from Mr. Ouimet's letter shows the view taken by that gentleman:—

"Il y a quelques années la cartoucherie de Bélœil faisait des expériences malheureuses dans la rivière Richelieu. Il s'en est suivi que des centaines de poissons de toutes espèces petits et gros ont été détruits. Les rives du Richelieu devinrent bientôt couvertes des cadavres de ces malheureuses victimes et la pêche est devenue de plus en plus rare. Depuis ce temps-là les Campbell avaient fait prendre au filet

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des poissons de la rivière pour empoissonner le lac de la Montagne. Aujourd'hui le lac regorge de poissons morts et tous les jours on est employé à enterrer les pois-

sons qui viennent mourir et s'échouer sur ses bords.

Je conclus de là, que les poissons tués jadis par la poudre ont été dévorés par des parasites inconnus et que depuis ce temps-là il s'est déclaré une épidémie sur la gente aquatique de nos parages. Les rares poissons vivants que l'on peut prendre à la ligne sont presque tous atteints du mal que l'on reconnaît à une tache, quelque fois deux, une près de l'épaule et l'autre près de la queue.

Dans ces taches se voient à l'œil nu des myriades de petits rongeurs cancéreux qui certainement sont les principaux auteurs du mal. Tout ce que je trouve de poissons morts sur notre grève je le fais enterrer profondément et couvrir de chaux.

Les parasites ne laissent que la peau—l'intérieur du poisson est complètement mangé. Le résultat de tout ceci est, que nous n'avons plus de pêche, que la chair du poisson de notre rivière est dangereuse à la consommation et que de nos rivages

s'exale une odeur putride qui soulève le cœur.

Je regrette de n'être pas assez connaisseur pour apporter un remède au mal, et c'est pour nous un grand malheur d'être privés de la pêche qui était si abondante jadis. J'oubliais de vous dire qu'au lac de la Montagne c'est la barbue qui en souffre le plus, dans la rivière toutes les variétés de poissons sont atteintes: carpes, brochets, dorés, achigans, esturgeons. J'ai vu un cadavre d'esturgeon de près de sept pieds de long et pesant à peu près 80 livres, mort, couché sur le dos et atteint sur le ventre de plusieurs des taches dont je vous parlais plus haut, grandes comme des pièces de dix cents, quelques-unes blanches, les autres blanches et rouges; c'est désolant."

Various investigators have described diseases of the integument of fishes due to extremely small parasites belonging to the myxosporidia. These protozoan parasites, as a rule, cause excrescences in the form of pimples and warts, quite unlike the ulcerated and fungus-covered sores due to vegetable affections or to the special morbid condition of organs due to entozoan parasites. There is ground for regarding the unhealthy state and extensive mortality of fishes in the before-mentioned cases as induced by unfavourable conditions and by an environment not merely morbific but toxic and fatal.

About twenty years ago there was a serious mortality extended over a very wide area amongst the sea fishes in the Atlantic ocean, to the north of the Mexican gulf. This mortality was by many authorities attributed to the poisoning of the water by injurious vegetable matters, though others held that some volcanic or subaqueous disturbance had worked the evil. The captain, who first reported the occurrence, said that on his trip from Cedar Key he encountered a wide streak of poisoned water, covered with all varieties of dead fish, of more than a mile in extent, off Indian Pass, between Clear Water and Egmont Light. A very offensive smell arose from it, and a good many bottom fish, such as eels, were floating dead on the surface. A Tampa journal said:—'We opine that this fact upsets the theory of some as to this poisoned water being fresh water from overflow on the mainland, impregnated with poisoned vegetable matter, as there are no streams of any size flowing into the Gulf near where the fish were found.'

Possibly this event belongs to the same class as that of the destruction of tilefish on the eastern coast of the United States. In my special report upon 'Fluctuation in Fish,' published last year, I referred to that occurrence in the following

terms:-

'The disappearance of the valuable tile-fish which for three years (1879-82) was very abundant on the north-east coasts of the United States, was attributed by some American authorities to volcanic causes. Almost in a single night this fine market fish was completely destroyed and the vessel, authorized by the United States government to investigate this remarkable occurrence, found the sea for over 150 miles in a direct line crowded with the floating bodies of these dead fish. Between six and seven thousand square miles were covered by this wave of destruction, and the schools of tile-fish appear to have been entirely cleaned out of that region, though stray groups of them have been reported occasionally, yet not to be compared with the millions that for the period named abounded in these waters.'

Professor Verrill pointed out that a cataclysm might effect such changes, in what he called the 'warm belt' of water, as to reduce the temperature and fatally affect the fish. A return of the favourable conditions would bring the tile fish back, and during the months of August and September last between 300 and 400 of these fish were taken on their old ground during the investigation of the Government steamer Grampus, thus indicating that the favourable conditions once more existed there.

It is notorious that chemical works affect not merely the waters adjacent to them, but the atmosphere, and often work great harm upon the health of communities. Factories for the manufacture of bi-carbonate of soda (usually known as alkali) and of ammonia, chlorine and bleaching powders, pour into the rivers sulphuret of calcium in quantity, also chloride of maganese, and many other refuse substances. All these are injurious. The manufacture of soap involves the production of glycerine and saline matters, with oily, resinous and fibrous particles in suspension, and the preparation of hides for tanning, also produces as waste discharges, lime, dissolved gelatine and offensive animal compounds, which have the character of a dense slime of a yellowish colour. Indeed every stage in the process of treating the skins as they come from the slaughter house, results in polluting substances, which are as a rule poured into the nearest rivers. The drainage from the scraping and washing operations and the effluvium from the lime-pits and tan pits in the shape of

lime-water and tan-liquor, are a means of serious and widespread pollution.

It cannot be denied that the most extensive and pernicious pollutions from factories of the various kinds, referred to above, occur in great centres of industry, where the rivers are also largely polluted and poisoned from other sources, especially sewage. Chemical and textile works, tan-yards on an extensive scale, and similar industries are rarely situated in what may be termed the 'upper country,' amongst the mountains and hills, where the most noted and productive trout and salmon reaches are found. It is true that Dundee and Aberdeen are on famous salmon rivers, and reference will be made to these special cases on a subsequent page; but rivers like the Aire, the Calder and other tributaries of the Ouse in Yorkshire, the rivers of the black country, and indeed of the manufacturing districts generally where chemicals, metals, and textile fabrics are worked, are in areas densely populated and destitute of the most important conditions favourable to fish-life in the local rivers and streams. There are, however, many industries which are carried on in remoter and less populous regions. Tin and lead mines are located, usually in mountainous regions near watersheds and the sources and upper Portions of trout and salmon rivers. Reference has been made to the 'slime' or washings from these mining operations, the effect of which upon the fish, parents and young, and upon the spawning beds, must be inimical in the extreme. It is, I believe, generally understood,' reports one authority, 'that if quantities of slime or solid matter from a mine are run into a river, it gets into the gills of the fish and destroys them:' but such slime contains also highly poisonous matters in solution and in suspension. This 'slime', as it is usually styled, washed from the crushed ore after being repeatedly subjected to running water in order to extract every Particle of metal except such as is of the nature of impalpable powder, contains barytes and other poisonous mineral matters. The particles of lead are insoluble and not directly poisonous: but the out-pouring of mine water, where lead-ore is being crushed is found to gradually and surely depopulate all the streams adjacent. The fry as well as the parent fish suffer from the contamination. The construction of 'slime-pits' is not difficult or costly where the refuse cannot be conveyed into the sea directly by conduits: and the abuse is capable of ready remedy. Copper mines are even more deadly in their effects than lead mines, as copper is so readily In one of the Devonshire mines, the waste water from the mine, and the Washing floors, passes through a series of pits filled with old iron. One metal precipitates upon the other and the water finally passes out purified from metal pollution. Indeed it is stated in one report in reference to this mine. 'From these pits the water is conveyed to some catch-pits constructed so as to allow such matter from the matrix as may be deleterious to subside, and strange to say the largest trout found in the neighbourhood are those in the drain which finally discharges the mine water into the River Tamar.'

It may be added that carbonate of lead also occurs in the 'slime' from the dressing floors of lead-mines. Of course the metal occurs in various combinations, sulphides, carbonates, &c., frequently in very small quantities; but, as has been pointed out, the effects of lead poisoning are cumulative, and hence as pernicious if not more so to fish-life than rapid and direct poisoning, the effects of which are

apparent immediately.

The mine-water from ironstone mines and from haematite iron mines is to the eve of the ordinary observer offensive and injurious on account of its thick murky character, and the yellow ochreous appearance it presents. The yellow and red tints imparted to the streams is evidence of the amount of foreign matter in suspension which must seriously affect, if not altogether prevent the respiration of fish. The ochre and reddish colour is due of course to oxide of iron, and an exaggerated example is the coloured pollution produced by the decomposition of iron pyrites, which so long as it is unaffected by air or water and not oxidised remains unaltered, but on exposure to either produces ferrous sulphate, which acidifies the water and absorbs oxygen. thus rendering it less supporting to fish-life. Ferruginous mine-water is charged with ochreous matter usually on account of the presence of iron pyrites. Coal mines, again, injure rivers and streams, as already pointed out not only on account of shale and pyrites which in many ways produce polluting effects, but from the fine coal dust carried away into rivers in suspension and acting mechanically in injuring fishlife. Insances might be quoted without number of which the following, from a report of in officer in Wales to H. M. Inspectors of Fisheries, Board of Trade, London, He said: "For a distance of six or seven miles I found the Mawddach seriously discoloured by the matter which was being poured into it from the Gwynfynydd Gold Mine. According to the quantity of stone which was then being crushed the amount of slime poured into the river would not be less than 25,000 tons a year. No attempt whatever was being made to treat the sludge, notwithstanding the representations made to the company by both the Board of Conservators and this Depart-The result cannot fail to be of serious importance to the fisheries of the Mawddach, for the slime, whether or not it is in itself actually poisonous to fish, is of a nature to completely smother the spawning beds with a layer of tenacious paste. The tailings of gold mines either hydraulic on gravel-benches, or stamping and crushing mills for treating quartz and other gold-bearing rock, when poured into rivers are harmful mainly where such waste muddy matter is deposited on or near spawning beds. Many of the evils arising from the mining of metal are repeated in a more acute form in the working of metals and their utilisation in factories. Thus the processes of galvanizing and electro-plating involving the use of various acids, muriatic, sulphuric etc., have resulted in the pollution and poisoning of many streams in England. The manufacture of tin-plate, so intensively carried on in South Wales embraces several processes in which sulphuric acid, copperas or green vitriol are used results in waste products highly injurious to fish when poured as has been done almost universally into rivers. Nail factories and allied industries all use various kinds of 'pickle' consisting largely of various poisonous acids.

In recent years the extraction of paraffin from bituminous shale has introduced another source of pollution in the ammoniacal waste, and offensive organic matters. Tarry impurities have worked widespread harm and universal complaints have arisen regarding the injury done. Even the tar used on certain forms of traps or fyke nots called 'verveux' in the Province of Quebec is said to have resulted in a tenacious scum which has destroyed fish or driven them away. The watery waste, however, which results after the distillation of paraffin oil is regarded as most injurious not only because it is charged with organic ingredients; but its odour and taste are pungent and must be offensive to fishes. Indeed some years ago hundreds of salmon, trout, etc., were found dead along several miles of the River Dee in Ch shire poisoned by the refuse from the paraffin and carbolic acid works, this refuse containing pitch or tar, pieric and carbolic acids and other injurious matters.

An industry which has attained some proportions in the Dominion, viz.: the production of wood alcohol has, in other countries, been accompanied by the produc-

tion of poisonous waste, by which rivers have been injured. The processes for obtaining pyroligneous acid, acetic acid and wood naphtha, leaves a tarry residue, and certain alkaline and calcareous products which are poured into adjacent streams when not utilized. Similar oily and tarry refuse has been noticed floating down rivers from gas works, and its tenacious and offensive nature must work harm to fish, though the quantity, as a rule, is small compared with similar waste from extensive chemical and paraffin factories. In several cases of pollution from gas works, a careful investigation did not show that dead fish had been found in the neighbouring waters. Of course, when the production of these waste materials (chiefly ammoniacat, oily and tarry in their nature) is extensive, their utilization is a source of profit, such bye-products yielding valuable substances (staining, saccharine, flavouring, &c.) which are in great demand.

As I have alread pointed out in regard to the alleged deadly character of chemical and other pollutions, there is a singular lack of actual demonstration or proof. It is not sufficient to say of a particular stream that fish once abounded there and now they are gone, therefore the factories situated along its banks have killed off the fish with their injurious waste matters. There are numerous cases of depletion of lakes and rivers in Canada, where no such thing as factory pollution has occurred, the decline of the fir hery being due either to overfishing, to poaching and destruction of spawning fish, or in some cases apparently to deforestation and cultivation of the land, which has wholly altered the character of the waters.

A clear case of destruction of fish by factory pollution is that of the river Doon. where during the latter part of October (as detailed in the 12th Annual Report of the Scottish Fishery Board), 68 salmon and 62 sea trout, besides a quantity of small fish, were taken out of the river in a dead or dying condition. Dead fish had been noticed by a great many parties, and one party stated that above a certain point very few live fish now occurred. Early in December, outside in the estuary of the river, 135 salmon and 294 sea-trout were picked up apparently poisoned, as there were no indications of fungus, nor were the fish marked or injured in any way. It appeared that the Dalmellington Iron Company, which began in 1893 to manufacture tar, pitch, ammonia, &c., had by an accident allowed a quantity of waste products to escape into the river. A settling pond had been provided, but in October the embankment had given way, and the posonous products had escaped. The settling pond and certain evaporating contrivances in connection with the works, were arranged to render the wasted matter less poisonous.

Breweries where beer is manufactured in quantities produce waste of a grave noxious character, the acids and other deleterious products, which are produced not only in the brewing of the beverage itself, but in the shape of 'sour beer,' caskwashings, etc., especially in cases where factories are on an immense scale, are inimical, it cannot be doubted, to fish life. Indeed Dr. Tolke in a paper published in 1879 included, as he states 'Among these industries sugar refineries, starch factories, distilleries, breweries and malt-houses whose refuse-water is strongly impregnated with organic matter and causes most of the complaints.

The manufacture of beet sugar, with which I have been familiar for many years, This important industry, probably shall form the subject of a special investigation. the most important of our agricultural industries, has, thanks to a sensible protective tariff and a rational system of taxation, developed from very small beginnings to its present vast extent.

'This important industry certainly deserves to be protected in the interest of the national finances and agriculture; but it cannot be denied that this growing industry is the very one which contributes the largest share to the pollution of our brooks and rivers, particularly as it consumes an enormous amount of water.

'It will be easily understood, therefore, why the complaints from the beet-sugar manufacturing districts are so numerous and well founded, and every impartial witness will have to concede that the brooks and rivers of those districts produce a very disagreeable impression not only on the eyes, but also on the olfactory organs. Such polluted brooks and rivers are, of course, entirely unfit for fish; but, what is worse, their water cannot be used for drinking and for agricultural purровеь '

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The manufacture of beet-sugar, though carried on in Canada, has not yet in any

way endangered river and inland tisheries.

In such a country as Scotland where distilleries are frequently situated in the high mountainous country, in order amongst other things, to secure a supply of water suitable for the production of whiskey, the danger of pollution at the very head-waters of important streams and the sources of salmon rivers, is vastly increased. The Fisheries Superintendent for the Spey district, who has many times reported in an interesting way upon the condition of the many salmon resorts in that famous angling area, five or six years ago, gave the following facts in regard to the Fiddich—a branch of the Spey:—

Last season on this stream there was an increase of about 50 per cent, of seatrout beds when compared with the previous season; consequently when we deduct the sea-trout beds, which numbered 210, from the grilse and salmon beds, the real grilse and salmon beds for last season will only count 356. The average number of sea trout beds on Fiddich during previous years would run to about 100 for the season. The best season's spawning that I have seen on this stream was during the season of 1888 89, when the total number of beds was 1045. During the two following seasons—1889-90 and 1890-91—the total number of spawning beds counted on the Fiddich was even behind that of last season, but, on these occasions, the deficiency was easily explained and understood by the fact that the other tributaries were proportionally behind in numbers. There are now 5 distilleries on the banks of Fiddich in the Dufftown district, all of which discharge their spent wash, spent lees, washings, and 'steep water' into said stream, thus polluting the stream from Dufftown down to Spey, a distance of upwards of four miles. Three of these distilleries-Parkmore, Balvenie, and Convalmore-have commenced work within the last 18 months. It is not unreasonable to assume that the deficiency in the salmon spawning on this stream during the last two seasons is attributable wholly to the pollution of the stream by said distilleries. That the refuse thus allowed to run into the stream from the distilleries is of a deleterious nature to fish was clearly demonstrated by experiments I carried out during the month of June last. I took four samples of water from the Fiddich below the distilleries during the time that a discharge of refuse was running, corked and sealed the bottles; then took a sample from Fiddich above distilleries, and corked and sealed that also. I then took all the samples to Fochaber's Salmon Hatchery, and filled four tumblers with the polluted water and one with the clean sample. From the hatchery boxes I took 25 fine healthy salmon fry, putting 5 into each glass. Result-fry in polluted water died in from one to two and a half hours, while the fry in the clean sample seemed as much at home as if in the hatchery boxes.'

This interesting experiment he followed up later and placed fifteen six-week salmon fry in three vessels, five in each. The first vessel he filled with water taken from the Spey three or four yards from the mouth of the Fiddich stream, which is charged with listillery waste; they were poisoned in an hour and fifteen minutes, while in the second vessel he placed water taken thirty yards below the point where the Fiddich pours in; and the fish died in a little less than two hours; but the third vessel was filled with water taken from the Spey thirty yards above the junction of the stream, and the little salmon continued in a healthy and lively condition. The poisonous nature of distillery waste was thus demonstrated, yet it must be admitted that the number of spawning salmon and spawning beds up the Fiddich showed a remarkable increase in the same year and above the distilleries the eggs and fry could suffer no harm, but all below would no doubt perish.

The manufacture of wood-pulp has attained, in recent years, vast proportions in Canada, and is likely to develop to an extent so enormously increased, in the future, that the effect of the waste matters resulting from such manufacture is of vital concern. In the first place the floating of pulp-wood, which consists of short lengths of very small lumber, is stated to be in many respects more injurious than the great 'sticks' or trunks of large trees which have been hitherto mainly conveyed along Canadian water-courses. The friction of the lengths of pulp-wood, it is said, tears off the epidermis, the corky bark and the fibrous bast tissue, leaving an offensive deposit in the beds of rivers. The trees being small, comparatively young, and of

various species containing more sap and slimy matter than older mature wood of larger growth, there may be increased danger to the fisheries from the development of the pulp industry in this aspect of the matter. The towing and floating of large saw-logs down rivers and over famous fishing grounds in the great lakes has long been a source of complaint amongst Canadian fishermen. These logs, some of huge dimensions, often remained for months in the water, and a large amount of organic matter must have been extracted and permeated the adjacent water. In some cases, especially in the case of hemlock, these pollutions are poisonous in the extreme, and certainly the bark and slimy fibrous debris, scraped off the 'sticks' in their voyage on the water, must be regarded as seriously injurious. The International Commissioners referred to this in the Report in 1896, saying:—

'Among the minor causes to which we may attribute the failure in the whitefish and trout is the deposition of bark from the rafts of saw logs which are constantly being towed across the bay and north channel from some of the larger rivers, especially French River and Spanish River, to the milling ports on the Michigan side of Lake Huron. The grinding of the logs against each other in the booms sets free the fine inner bark which settles on the bottom, forming a thick covering. When this happens to occur on the spawning or feeding grounds of the fish there can be no

doubt that a serious injury is caused.

Some of the inshore spawning grounds are said to have suffered from the saw-dust and other mill refuse which has been carried down the streams from the mills; but little injury can have been done in this way, as many of the spawning grounds are offshore or remote from the neighbourhood of the mills, and of late years the regulation prohibiting the letting adrift of this refuse has been well observed. The fishermen seem to have been careful about the disposition of refuse fish and fish offal and have generally landed it on the rocks. As the shores of the bay are not exten-

sively settled other pollutions cannot have occurred.'

These observations confirm the views of the fishermen, who had for many years made their complaint to the Dominion Government, and in 1893 stated their case to the Special Commission, which visited the great lakes in that year, and reported upon this abuse, and on other fishery matters in those waters. One of the witnesses said, speaking of Georgian Bay and the North Channel:—'There are eight different streams and each one used for the floating of logs. The French River, I am told, passed even more logs than the Spanish, and my opinion is that the bottom of the whole lake from Georgian Bay to Mississauga is teeming with bark. It is eighteen miles across to the Manitoulin, and rafts pass in three different directions, so that the bark is spread every way. This bark in the course of time rots and forms into a kind of slime and fish will not stay on that ground. There were five skiffs fishing from here four years ago, since then they have left, as fish got so scarce, and in a very short time I believe there will be no fish at all.

'On September 26 of this year I had thirty-six pieces of net utterly destroyed by this bark. Each piece of net was 180 yards long, and was loaded so heavily with bark as to break the web', and, amongst the additional evidence, it was stated by a prominent firm on the northern shore of the Lake Huron waters, that this abuse was the most serious that the fishermen had to contend with, special stress being laid, however, upon the injury done to the nets. It was stated that bark and the soft wood on the logs which has been found to be very plentiful in the water since the exportation of saw-logs has taken place, is injurious. The stuff rubs off by the motion of the logs while being towed across the bay to the United States, or elsewhere, or even from the rivers when brought down to the saw mills. The rafts are very large, and great damage is done to the meshes of the nets. This is very injurious to the fisheries and clings to the meshes of the nets. It is much more injurious to gill-nets than pound-nets. If these logs are allowed to be towed over our waters, this difficuty will increase, and the prospects for any improvement in the fisheries will not be very encouraging to the fishermen. If the present fishing laws had been in the past carried out as fully as they have been in the past two seasons, and the evils spoken of, and the saw log difficulty were overcome, then fishermen it is claimed would become prosperous again, and would increase

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After the raw material, used for pulp manufacture, has reached the mills, it is subjected to the various mechanical, thermic and chemical processes, and it is claimed that the liquid waste flowing from the mills during those processes is injurious to fish. Widespread alarm, indeed, was caused upon some of the principal rivers of Eastern Canada—rivers, perhaps, the most productive in the world for salmon fishermen, it being alleged that the acids used, and the floating debris, resulted in a polluting waste-product, poisonous and mechanically harmful to fish life. The actual tests hitherto applied have not borne out these alarming contentions, and it must not be forgotten that the pulp mills spare no efforts to save every particle of waste pulp matter. They use the most recent and scientific apparatus to prevent loss, either of chemical or paper-pulp materials. One of the best biological workers in the Maritime Provinces—a man thoroughly posted in the fish fauna, and the conditions of fish-life in that part of the Dominion, Dr. Philip Cox, made an experiment with a view to deciding the effect of pulp refuse upon living fishes. The experiment does not profess to be final or scientifically conclusive, as the opportunity did not occur to make a full and accurate analysis of the waste materials, which differ at different stages of the pulp-making process, (and the proportions of the components of the waste no doubt vary), but the experiment suffices to show that delicate fish like Osmerus mordax are not seriously affected, and salmon, sea-bass, trout, etc., would be even less liable to injurious effects.

DR. COX'S EXPERIMENT.

Tests made April 14, 1899, with waste discharge from the Fibre Company's factory, Chatham, N.B., to ascertain its effects on fish life in the river.

Three vessels of 620 oz. capacity each were used, and were at the beginning of each test filled with water taken directly from the river, the acidulous waste being added.

First Test.

| Vessel | A, | cap. | 620 oz. | + | 2 oz. | was: | le | ****** | 10.45 | a.m. |
|--------|----|------|---------|---|-------|------|----|--------|-------|------|
| " | В, | ı i | 620 oz. | + | 4 oz. | " | | | 10.48 | 46 |
| " | C. | " | 620 oz. | + | no w | aste | | | 10.48 | " |

Freshly caught and uninjured smelt (Osmerus mordax) were put one in each vessel, at the time mentioned. At 12 noon all were active and apparently unaffected.

Second Test.

| Vessel | A, | cap. | 620 c | 0z. 4 | - 6 oz. | wa-te | 12.00 |
|--------|----|------|-------|-------|---------|-------|-----------|
| | | | | | | | |
| | | | | | 12 02 | | 12 05 |

At 2 p.m. the fish in C died, but the others were unaffected. I suspected injury to the one that died before it was put in, so in next test I put some quantity of waste in vessel C.

Third Test.

| Vessel | Α, | cap. | 620 | oz. + | 12 oz. | waste | | 2.26 | m. |
|--------|----|------|-------|-------|--------|-------|-------------|------|----|
| 46 | В, | " | 620 6 | oz. + | 16 oz. | | *********** | | |
| " | C, | 46 | 620 | oz. + | 24 oz. | " | | 2.28 | " |

At 3.26 p.m. all active and unaffected. Vessel A was then replenished with fresh water, 48 oz. waste added, and a freshly caught smelt placed therein.

At 4.10 the latter and B and C of the third test were alive and well.

Hence it is seen that a mixture containing 8 or 10 per cent of the waste has no apparently injurious effect.

It is surprising that so little has been done in the way of direct experiment upon living fishes, along the line indicated by Dr. Cox's three tests. I find, however, that some years ago an English chemist confined some small cyprinoids in a vessel of water, polluted by the tarry and acid waste poured into the Dee in Cheshire, by petroleum works and carbolic acid factories. On account of the presence of pieric and carbolic acids, the water was yellowish, and it was found that in one gallon of the water there was no less than $7\frac{1}{2}$ oz. of tarry substances. It was found necessary in the experiment to add a quantity (100 per cent) of fresh water, or the fish experimented upon would have died at once. That the water was highly poisonous to fish was proved by its action, even when diluted with an equal volume of tap water. A minnow placed in it made violent efforts to escape, but became still and floated on its side in a few minutes, and in twenty minutes was quite dead. Actual tests and experiments of this kind are urgently needed, in order that prevalent opinions respecting various kinds of pollution may be either confirmed beyond cavil or disproved.

Perhaps the most widespread, and to the general public the most apparent cause of river-pollution is that due to sewage. Cities have from time immemorial regarded rivers as the appropriate channels for conveying away those offensive kinds of waste matters incident to the congregating of large communities. In what precise way sewage affects fish has never been accurately determined: but its injurious effect is a matter of universal opinion. Thus the Canadian fishermen of the Detroit River five or six years ago complained of the amount of sewage poured into that river by the city of Detroit. This sewage and offensive garbage not only polluted the water: but was deposited, when west and south winds prevailed, upon the Ontario shore. 'Since this garbage has been coming ashore' said the fishermen, 'the catch of fish in our nets has been materially diminishing and, if the same continues, the business will be ruined. The presence of the said garbage drives away the fish and renders our fishing privileges useless.' It is not claimed that the fish were actually poisoned and killed: but that they were driven away to other localities. Some authorities who attribute to the sense of smell the action of fishes in forsaking sewage-polluted water, take the above view, and regard sewage as a deterrent more than a direct poisonous agent. This no doubt was the view of Mr. J. A. Harvie-Brown of Dunipace, Scotland, in regard to the Carron when he stated to the Scottish Fishery Board that salmon and migratory trout will not face pollution. The secretary of the Fisheries Improvement Association of Scotland in 1885 said of the Firth of Forth :-

'To recover a stream from a condition of barrenness and resuscitate its fishbearing powers may be a work of difficulty and of time; but, in the present instance, there is no rea-on why it sould not be hoped, nay, expected, that the trout and the salmon will (after the improvements proposed are effected) at no distant period begin again to tenant the Water of Leith. The Firth of Forth is frequented by many migratory fish of the salmon kind. Dr. Parnell, in his Fishes of the Firth of Forth, mentions not only the salmon and the sea trout, but some eight varieties of Bull-trout. The sense of smell is believed by scientists to be highly developed in the salmon family, and whilst quick to detect the poisonous effects of pollution, and to be driven away, they are not slow also to detect symptoms of abatement, and to return. It is known that this fish runs gauntlets in the form of filthy waters in a manner truly astonishing. 'Almost every year,' says Dr. Gunther, "salmon and "sea-trout in the grilse state make their appearance at the mouth of the Thames "(where the migratory salmonoids have been extinct for many years) ready to "reascend and restock this river as soon as its poisoned water shall be sufficiently "purified to allow them a passage".'

On the west coast of Scotland a similar state of things has been described on the Clyde and smaller streams such as the Cart, etc. Of the last named river one

writer says:—
'In 1819, the Cart was a pure unpolluted stream throughout its whole course, from the upper part of Eaglesham, where it has its source, to its junction, at Blythswood, with the Clyde. It abounded in fish, and was in its upper parts above Paisley, a fine trouting stream. A century further back the river was famous for fish of the

salmon kind, and so abundant were they that no inconsiderable part of the rent of the Saucer Mill, then belonging to the Stewarts of Blackhall,—an old family now represented by the highly respected Lord-Lieutenant of Renfrewshire, Sir Michael Robert Shaw Stewart, Baronet, of Blackhall and Argowan,—was paid in salmon caught in cruives set below the Linn, then and still forming the dam of the Saucer Mill, and which cruives the miller was taken bound in his lease carefully to maintan and uphold. So recently as the year 1815 we have fished and caught trout in the river near to the Old Bridge of Paisley, while in summer crowds of children were to be seen seeking health and recreation in its clear stream,-wading, bathing, and fishing. Below the town every boy in Paisley given to piscatorial pursuits, had a favourite place of fishing at one or other of the many "yetts" on the towing path along the east side of the river, where he set his lines in the hope of being repaid by a good string of eels and flounders, and occasionally a trout. Now, however, and for many years past, the stream has been a large and greatly polluted common sewer, into which every species of destructive or offensive ingredient, as well as the entire sewage of Paisley and the towns and villages further up, are allowed freely to flow. This most destructive change in the condition of the Cart, when looked at in connection with the present mortality bill of the town, is, beyond doubt, a matter for serious consideration, especially in view of that sanitary regulation and improvement which may possibly be applied in these days when the condition of towns and rivers has forced even the Government to adopt the phrase, sanitus sanitatis, as indicative of its policy."

The whole subject of sewage-pollution in its effect on fish-life is a matter requiring thorough investigation. Such investigation might show surprising and unexpected results for at present the views of experts are somewhat contradictory. Thus while on the Thames the pollutions of the lower parts of the river, and the estuary, are said to deter the ascending fish, which linger at the mouth waiting for the coming of a purer current, yet the Tyne, which is even more atrociously polluted, does not deter the salmon and sea-trout, and as Professor Huxley in 1882 said: 'It is difficult to imagine worse pollutions than those which are poured into the 'Tyne at Newcastle, yet the salmon run the gauntlet of the sewage, the chemical 'refuse and other abominations, in sufficient numbers to produce a large annual

'harvest.'

I notice in a report of H. M. Inspector of Fisheries for England and Wales, that sewage-pollution in a case reported upon had, it was claimed, caused the death of

fish. The authority mentioned says in his report in 1892:

'Early last year I received particulars of a large "Fordwich trout," said to have weighed 26 lbs., which had been picked up dead in the River Stour, near Canterbury. The Conservators of this District have however, apparently given up as hopeless the task of protecting the river in consequence of the evil effects of the

sewage of the city of Canterbury.'

The city of Canterbury has a very small population, and the alleged poisonous effects of sewage, should be even more extensively observed in the Humber, the Type and other large rivers which receive the refuse of populous cities like those of the West Riding of Yorkshire, and of the Durham manufacturing and colliery centres. Gottlieb Boccius in his "Fish in Rivers and Streams" published 60 years ago, speaks of the Thames and the Tyne and points out the special features of the latter river as a resort for salmon. He says 'I will make a comparison of the Thames with the Tyne '; no salmon are now caught in the Thames, but though the Tyne has many alkali works on its shores from Newcastle downwards-and alkali is death to every species of fish-yet it abounds in salmon. How is it with these destructive manufactories on its banks, and in despite of the swarms of steam-boats and tugs ever passing up and down the river, it is still a good fishery? Why, simply because Salmon and all other fish, migrating from water to water, never stop on their way, but push forward, and that at a fast rate, till their intended journey, for which Nature prepared them, is completed for, as I have said, Salmon being very swift, soon pass through the water which is offensive, and then run for the pure springs fit for spawning.'

In the report for 1887 of Mr. Fryer, one of Her Majesty's Inspectors of Fisheries in England, to whose able and very comprehensive and detailed reports I am so largely indebted in compiling these notes on pollutions as affecting fishery resources, it is stated that while the Tyne is the most productive of all the salmon rivers of England and Wales and one of the most extensively polluted by sewage, mining refuse and manufacturing waste, liquid and solid, yet its salmon harvest remains wonderfully good. Its productiveness was, however, stated to be on the decline; but whether due to pollutions or to overfishing could not be decided, though it was pointed out that the large body of sea-water pouring up the tideway no doubt did much to counteract the evil results that might otherwise accrue. Certainly the catches of salmon by net and by fly on the Tyne have during the last quarter of a century been wonderfully maintained, and the river has apparently been as well supplied with fish as the most optimistic could expect. Thus in 1886 and in 1887 the takes were 25,696 and 18,835 respectively. Five years later 1891 and 1892 they were 29,298 and 31,080 respectively, and at the end of another five years 1896 and 1897 they were 15,755 and 11,081 respectively. The last published figures 1898 are reported as showing an average catch, the quantity being 11,422. The Tay in spite of the fact that Dundee, Perth and other centres of population occur along its course is by no means denuded of its salmon, though the catches during recent years have been below the average. How far these decreased takes in the river are to be accounted for by the destructive netting and trapping along the estuaries and seashore it is not easy to decide. The Tay like all salmon rivers is subject to remarkable fluctuations and it is interesting to note, as indicating the continued productiveness of the Tay, that its annual rental (that is the amount received by the riparian proprietors for the netting and angling privileges), amounted in 1898 to over \$100,000; in the previous year to over \$85,000; and in 1894 to \$95,000.

What is the conclusion which the intelligent observer must reach, who glances over the series of facts and inferences briefly set forth in the foregoing pages. In the first place it is evident that circumstances modify the effects of all forms of pollution, so that waste matters which would be deadly in one river, will pass away and prove of little harm in another, where the conditions are different. In the second place it shows how varied are the effects of various waste products under the same conditions upon different species of fish. Salmon will survive unharmed

where shad and gaspereaux would be killed off.

Further these notes indicate how little is actually known of the effects upon fishlife of these various pollutions from accurate and thoroughly scientific experiment.
Common opinion and popular ideas more largely prevail than reliable and demonstrated knowledge. Nor must it be forgotten that, however pure and free from
pollution rivers may be made by rigorous enforcement of laws against such offences,
it is vain to expect a restoration of the fishery resources, and the repeopling of
depopulated waters, if the parent-fish are shut off and obstructed by mill-dams, canal
locks, timber refuse, log-jams, booms and fallen trees, or any obstacles by which
they are prevented from reaching the spawning beds. If the spawning grounds
be kept free from pollution and the deposition and fertilization of the eggs be
accomplished; and if morever free and unobstructed access to these grounds be
provided for the fish, and, above all, if over-fishing, excessive netting and destruction
of the ascending fish be prevented, there need be little fear that our supplies of
salmon and valuable migratory species will wholly tail. The assistance of artificial
fish-culture will be an effective adjunct.

There may be cases where the erection of mill-dams and pollution by poisonous waste products is of more moment than the destruction of the fisheries in a particular river. The utilitarian motive may be overwhelming, and valuable industries on a large scale may, in some cases, outweigh fishery interests and considerations. Of the serious results to a community from a too rigourous enforcement of fishery laws, a striking example has been recently afforded in King's County, Ireland. In a local journal it was stated that 'the fine mills of Springfield and Belmont, which are owned by Mr. Archibald Coulahan, are to be closed shortly. The owner is taking this course in consequence of the Fishery Conservators compelling him to

do work in the way of putting up gratings, which he considers both unnecessary and impracticable. There is great regret felt in the neighbourhood that those mills—which cost some £50,000—should be closed, as many hands will be put out of employment. It seems a great pity that the rival interests of fishery owners vs mill owners should be allowed to clash in this way.

The salmon fisheries of Ireland are no doubt of much importance, but in a county with so very few manufacturing industries it is a fatal mistake to place any

obstacles in their way.'

The public interest must of course be paramount, but the highest authorities are agreed that such cases if they exist at all must be rare, and it is of prime importance to remember that there are few factory pollutions which cannot be readily and inexpensively rendered innocuous. Indeed I cannot do better than quote, in a concluding sentence, from the Tenth Annual Report of the Scotch Fishery Board, which puts the matter succinctly, and urges considerations which must have weight with every fair

and intelligent mind:-

Legislation for the prevention and cure of pollution and poisoning in all running waters is most important and urgent. The evil is yearly increasing, and it is time that a remedy was applied. And that such a remedy might be found without injury to manufacturers there seems to but little doubt; as, more than fifteen years ago, the River Pollution Commissioners wrote as follows in their fifth and last report:—"We "have thus already submitted to your Majesty a description of the evils arising from "the discharge into river channels of town sewage, and of the various filthy drain-"age waters from cotton, woollen, silk, flax and jute works, from print and dye-"works, from tanneries, paper mills, and bleach works, from alkali, chemical, and soap works, from distilleries, starch and sugar works, and from paraffin oil works. "The remedies for the nuisances which these refuse liquids create have been care-"fully examined, and, after prolonged inquiry and research, we have been able to "report that in every case efficient remedies exist and are available; so that the "present use of rivers and running waters for the purpose of carrying off the sewage "of towns and populous places, and the refuse arising from industrial processes and "manufactures, can be prevented without risk to the public health or serious injury "to such processes or manufactures."

It seems therefore quite evident that the secondary uses of water which the manufacturers enjoy have been too long allowed to usurp the place of the primary uses to which the public are entitled, and that it is high time that stringent measures were taken to check the progress of pollution, which has already converted so many of our streams, once pure and pellucid, into mere fetid sewers. In one way, at least, the public health and the preservation of salmon are immediately connected. The water which will destroy or repel salmon is not fit for human use; and the water fit

for human use is attractive and wholesome for salmon.'

The fact cannot be ignored that almost daily such improvements are being made in the methods of treating raw products and of utilizing waste materials that some of the industries referred to in the preceding pages have in recent years undergone total change. To a large extent pollutious which have hitherto been a main source of danger are ceasing. Thus at Ottawa itself where probably over one hundred million feet of waste,* in the shape of sawdust, have for many years been poured into the fine river which flows by the Canadian Capital, a revolution may very soon be effected, and the rawdust hitherto so lightly valued turned to practical use. The utilization of waste products is a hopeful sign, and will do much to rectify the evils arising from industrial pollutions, which have so long afflicted fish and fisheries.

^{*} It is stated that there is one foot of waste to every foot of timber cut in the mills.

NEGLECTED STRUCTURAL FEATURES IN YOUNG FRY.

BY PROFESSOR E. E. PRINCE, DOMINION COMMISSIONER OF FISHERIES, OTTAWA.

It is a curious circumstance, the explanation of which is not easy to find, that pisciculturists have been almost without exception what are called 'practical' men. By that term is meant men who did not claim to have much professional knowledge or technical training. Many of them, especially the pioneers in artificial fish breeding, did not hide their contempt for theoretical knowledge, and viewed with little favour scientific training, or the opinions and explanations of scientific specialists. Just as the Scottish fishermen frequently claimed that during the sittings of the British Fisheries Commission in 1885, they taught Professor Huxley a good deal about fishes, though that famous biologist was amongst the greatest masters in the science of fish that the world has seen, so the early fish-culturists often congratulated themselves that they adopted courses not fully in accordance with scientific opinion, and proclaimed the sufficiency of 'Practice' without 'Science.' One of the most striking cases of this feeling was that excited when the retention of salmon in tidal ponds was tried. Biologists, on scientific grounds, demurred to the keeping of parent salmon in salt or brackish water, long after they should have ascended into the pure fresh water of the upper reaches or spawning grounds. Physiology would discourage the retention of parent salmon in the midst of conditions not in accord with the conditions which obtain in nature. The experience of the practical man, however, prevailed, and so far as can be judged, tidal ponds are a success, and the eggs and fry do not apparently differ in health. vitality and successful incubation from those secured from parents which have reached the head-waters far from the sea. Of course the question is one of a some-What complicated and profound nature when thoroughly analyzed, and the biologist must reserve his opinion as to the ultimate effect, through here lity, of the changed parental conditions upon succeeding generations of fish. So far no specially abnormal or undesirable effects have been noticed, and the parent salmon certainly maintain a more robust vitality, and are freer from fungus and disease than fish taken on the spawning beds at the head waters of salmon rivers.

Experience, of course, is the best of all teachers, but practical experience combined with exact scientific knowledge, is better still; for the pupil is no longer simply taught, he becomes a master and can control and command. Experience gives us the 'how,' but accurate knowledge provides us with the 'why,' and the fish-culturist who handles ripe eggs, who vivifies them by the admixture of the fertilizing milt, who is able to recognize living and dying or dead eggs, and who knows when the eyed stage is reached, and can accurately tell when the period of hatching is approaching and the young fish are about to emerge, such a man will feel increased confidence in the progressive steps of his work, and will avoid some mistakes and surmount many difficulties if he has technical and theoretical knowledge

added to his valuable and indispensable practical experience.

The complaint has been frequently made that no results appear to have followed from the planting of artificially hatched fry, and doubt has been thrown upon the success of all fish-culture work. Examples might be readily given, but the well-known case of the Delaware River, Pennsylvania, may be referred to. In 1871 a number of gentlemen in Philadelphia and Easton procured 10,000 salmon eggs from the Canadian hatchery at Newcastle, Ont. Under the superintendence of Messrs. H. A. King and Christie about 2,500, all that survived from the incubation of the 10,000 ova, were planted. In 1872 Mr. Thaddeus Norris hatched 11,000 fry out of 13,000 eggs, and the following year Mr. Norris and Dr. Slach planted a considerable number of young salmon. No adequate results were ever seen, and the three attempts to stock the Delaware were looked upon as failures, and the State Fish Commissioners concluded that 'the waters of Pennsylvania are evidently not suited to this fish, however desirable it would be to have it planted and thriving in them.'

There is reason to believe that the non-success arose less from the unsuitability of the waters than from some defects in the method of handling the fry. Indeed the weak condition of the first batch of fry was noted at the time, and it was attributed to the hot weather. It is undeniable, however, that in spite of sultry conditions and untoward circumstances, fry can be successfully planted if knowledge and experience are available, and proper provision made to guard against all harmful influences.

The present brief notes on some neglected features in the newly hatched fry of fishes do not refer to any new scientific or biological points unfamiliar to the trained specialist. Nor are they intended to essentially modify the handling of eggs during incubation or the treatment of young fish after hatching. They refer to some points, familiar enough to the embryologist, and no doubt known to pisciculturists in general, but apt to be overlooked or neglected when the time comes each season for taking care of the newly hatched fry. These points have reference to peculiarities in the structure of the young fishes at the close of incubation, and upon their entrance into free life after leaving the egg. They are of importance, and by ignoring them the health and vitality of the fry may be impaired, and even loss of fry entailed.

First of all it is to be noted that the fry of fishes usually included in fish-culture operations possess enormous eyes. Lake whitefish, great lake trout, brook trout, pike-perch or wall-eyed pike, and other species, exhibit eyes of extraordinary dimensions, occupying in some cases fully one-third of the lateral surface of the head. No doubt the real significance of these large organs of sight, so disproportionate to the size of the microscopic larva must be explained on principals of development and evolution. They are like two black or densely coloured balls, which are readily seen long before hatching, and while the young fish is being formed inside the egg-capsule. They are so prominent and visible that the term "eyed-egg" stage is in common use amongst fish-culturists. To the practical man the possession of a pair of large sensitive organs of sight is a warning to him that the possessors are easily affected by rays of light. It teaches him that as far as possible reflected light should reach the tanks or vessels containing them. Hence direct rays and an excessive amount of light of any kind is not only unsuitable, but is highly injurious.

Glaring light, such as that produced by modern types of gas-burners which increase the luminosity of the inflammable medium, and incandescent electric-light devices, are to be strictly avoided. The sensitive eyes, with their large receptive pupils, cannot bear light so steady and piercing. Pisciculturists, as a rule, have arranged the windows etc., so as to shut out all excess even of day-light, and have done so mainly, because too much light was known to be favourable to vegetable parasites and algoid growths. Fungus has been generally held to be stimulated by abundant light. But the reason which above all should guide the fish-culturist in regard to light in hatcheries is the anatomical and physiological reason, viz: the perilous results to the fry, which excessive light inevitably brings, on account of the great size and unusually sensitive character of young fishes' eyes. As every one knows, the eyes are protruding and prominent and not shaded by eyebrows, eyelashes, or protected by movable eyelids, hence a glaring light which is painful to the visual organs of higher animals, is not merely disagreeable, but productive of morbid and fatal effects, if allowed to shine upon embryo fishes and fish-larvae.

During incubation a suitable amount of light is very necessary, or the development of the eggs will be delayed; but it must be reflected light of the sun, such as reaches them on the gravelly 'redds' or spawning grounds. Eggs of fishes being, in so many species, deposited in shallow parts of the upper reaches of rivers, where the water usually is swiftly running, and broken up into ripples, each ripple and crystalline wave acts as a refracting prism, breaking the glancing bright rays of the sun into scattered reflections of light. Thus the solar rays even at midday are bent by the uneven surface of the rushing water, and directed into the hollows, the interstices, and shadowy ridges of the gravel and boulders beneath the surface. Many pisciculturists have learned to their bitter cost, that, too much light especially, when accompanied by a high temperature is most unfavourable, hastening unduly the progressive stages of development during the incubation of the eggs, and resulting in weak and sickly fry which are unable to survive through the first few

weeks of larval life. The cylindrical glass jars in which the eggs of many species are hatched, though cleanly and convenient, are wholly unadapted for holding the fry, and the more rapidly the young fish are enabled to pass from the dazzling glare of the crystal vases to the more shady and gloonly surroundings of the large receiving tanks the better for the fish. Assistants in hatching establishments rarely realize the harm that may be done by allowing fry to remain a few hours, or it may be a whole day, exposed to glaring light, and they should be strictly instructed on no account to keep fry longer than can be avoided in the blinding light which beats upon them after they emerge from the eggs in hatching jars. There is not this danger in the case of fry which are hatched out upon trays: but towards the close of the period of egg-incubation, hatchery officers should keep a sharp eye upon the hatching jars in which whitefish, or shad, or pike-perch (doré) are developing to see that the current is adjusted sufficiently to carry the fry off without any delay. Experienced men are frequently puzzled by the apparent weakness and lack of vitality in whole batches of fry, while others are robust and strong. The explanation is not far to seek, for in most cases it will be found that the weakly fish were delayed too long in the glaring environment of the hatching jars.

Again, it must be remembered that larval fishes possess extremely delicate hearing organs. The ears, one on each side of the head, a little in front of the breast fins, are of an oval shape, like an egg-shaped sac or chamber, filled with clear fluid or endolymph, and containing one or two, sometimes three, small limy pellets, the ear stones or otoliths. Several sensitive cushions of nervous matter, studded with hairs or delicate bristles, occur inside the chamber of each ear. These cushions are connected with the auditory nerve, or nerve of hearing. The ear is completely closed up, and receives vibrations or sound waves through the delicate walls and skin covering the head. Shaking the fish rudely, rough handling of any kind, and loud hammering, or other violent noises, cause the ear fluids inside the ear-sacs to vibrate too vigorously. This produces concussion of the otoliths or ear stones, which may even be knocked out of their places, damaging the delicate auditory

cushions of nervous matter, and producing serious disorganization.

Damage done to the ears may result in sickness and rapid death. The intelligent fish-culturist will take every means to avoid all perils and risks, and will bear in mind that fishes when newly hatched have hearing organs of special delicacy and sensitiveness.

A further point, which is often overlooked in hatcheries, is the character of the skin in young fishes. It is not provided with scales, as in adult fishes generally, or dense and leathery as in catfish, the leather carp and many mature forms, but in all young embryo fishes it is naked and very thin, and often as transparent as glass. Indeed. as the Michigan State Fish Commissioners remark in their 12th Biennial Report, 'The fry of whitefish are so transparent for several weeks after hatching that, when confined in glass aquaria in a well lighted room, the presence or absence of food in the stomach may be determined almost at a glance. The presence of their natural food is especially noticeable, as it casts a reddish tinged line throughout the food Many larval fishes, moreover, are provided with external sensory organs arranged in a series along each side of the body. In some the tips of the jaws and the front end of the snout have similar organs of feeling or touch. These organs are usually like small mounds or bunches of nervous cells, surmounted by a group of projecting hairs. I have counted as many as seven to ten pairs of such organs in the body of a young fish. Some fish have more, some less, but in all cases they are so sensitive that they cannot fail to be seriously injured by rough treatment or violent concussion. Hence fish larvae must always be gently manipulated. In emptying large quantities from one vessel to another, they should not be violently poured out, with accompanying splashing and concussion, nor should they be suddenly transferred from a high to a low temperature. The skin and delicate sense organs of fishes are a sensitive as the eyes or the tip of the tongue in ourselves, and all harsh or hurtful influences and trying conditions render the fish less likely to survive, or may even prove immediately fatal.

It is a good provision to test the temperature of the water in which the fry are contained and the temperature of the water into which they are to be emptied. In

the case of lakes and rivers, warm shallows or sheltered eddies can easily be found,

if the open water appears to be too cold.

Many other points, known to the scientific specialist, might be mentioned, but in this paper one further point only will be referred to, viz., the presence of a delicate erect fin along the back, and along the under-side of the body as far as the posterior side of the yolk-sac. This transparent fin-membrane is so thin, colourless and clear, in the whitefish, the shad and the alewife, though more dense in the salmon and trout, as to be almost invisible, unless carefully looked for. It is really a broad sheet of extremely thin skin standing up in the middle of the back of the fish, like a delicate crest. It is known to embryologists as the unpaired continuous fin-membrane and is so easily injured that newly-hatched fishes should never be handled. Sharp implements and hard substances rupture it, and most cases of curled, distorted young fishes are found, on examination, to be due to injury of the embryonic fin-membrane. The tail, especially, is liable to curl up on this account, and the fish has a crumpled and whitish appearance. The practical pisciculturist is often puzzled when he sees abnormalities and morbid appearances in his fish and cannot understand why eggs which were so healthy, and hatched so successfully should at times result in disappointing, sickly, and dying embryos. It is often difficult for him to discover the why and the wherefore; but some knowledge of the minute structure of newly-hatched fishes, and some acquiantance with their physiology, will often throw light upon his difficulties and prove in numerous ways most helpful. Indeed some knowledge of the scientific principles of development and embryonic anatomy is necessary for the successful handling and proper treatment of young fishes incubated and hatched under artificial conditions.

THE OBJECT OF A CLOSE TIME FOR FISH.

BY PROFESSOR EDWARD E. PRINCE, COMMISSIONER OF FISHERIES, OTTAWA.

The question is often asked "what is the object of a close time for fish?" and the answer is by no means so simple or easy as is generally imagined. The object of a close time varies greatly according to circumstances, and the criticism often urged against legal enactments which specify certain seasons or periods as times during which the taking of particular species of fish is prohibited, are frequently misdirected and mistaken. Thus it is often said of some fishery regulation, embodying a close time, that it does not cover the whole period of spawning and that many fish are found, before and after the limits of the period, in a ripe or spawning condition. The critics in such case base their remarks upon the supposition that a close time of necessity aims to cover the period during which the fish spawn—the fish that is to say contemplated by the regulation. But such is not at all the sole object of a close time or close season. Again, it is said that in some cases the period of prohibition antedates or precedes the spawning time, while in other cases it protects the fish after spawning. In other words the close time is too early, or it

is too late.

Fishery authorities in framing regulations defining close times for various kinds of fishes often have had very different aims in view. Indeed, at least a dozen wholly diverse objects have been aimed at in existing laws upon this subject in the Dominion, and a comparison of the laws in other countries defining close times would increase the number to over a score. It is rarely, however, that a close season is enforced so unjustifiable and futile as that which was passed by a local legislature in the United States, according to whose enactment no whitefish could be captured in Lake Erie during the month of June by any fisherman in that State. The main reason for this law, which it was proposed to rigorously enforce, being that no fisherman could ever catch any lake whitefish in paying quantities at that time of the year. Further reasons were that the weather being hot the few fish, that might be taken, would not keep in good condition for the market, and the fishermen lost money because their nets became foul and rotted away during the height of summer. In the State referred to there was no protective close time in November when the whitefish could be captured crowded together on the spawning grounds in immense schools. The sole object of a close season for whitefish in that case was to meet the desire of the fishing firms and the fishermen for a prohibition to be enforced during a part of the year when they would not feel it. Some years ago a large number of lobster fishermen in the Maritime Provinces urged that a close season for lobsters be enforced all along the coast at the end of June, because they had to go to cod, haddock, and mackerel fishing, and could not go on any longer with lobster trapping. They desired that no other fishermen should be permitted to fish for lobsters, when another more important fishery demanded their own attention. In all such views, on the matter of a prohibited period for fishing operations, the protection of the fish is left entirely out of account.

There can be no doubt that the main object of close seasons in the majority of cases, has been the preservation from destruction of the breeding fish at the most momentous period, viz: when just about to deposit or incubate their eggs. If this object can be accomplished it is the most effective measure possible for the perpetuation of the fish supply. The destruction of the breeding fish, at the very time they are engaged in spawning, is the surest step to the extermination of the future supply. Yet this destruction has in past times been almost universal and those engaged in fishing for a living, those to whom a continued supply is of chief importance, are often the most impatient of restrictive laws, and frequently complain that the law stops them just when the fish are running or schooling in easily accessible areas, and when therefore the greatest hauls can be made.

The fishery officer is not unfrequently taunted with this remark 'if you kill a female fish six months before spawning, you just destroy as many eggs as if you killed her six days or six hours before depositing her eggs, nay in the act of depositing her eggs.' It does not demand much intelligence to see that this is wholly untrue. An artist painting a picture experiences a far greater loss if his painted canvas be destroyed after he has expended many months labour upon it and when just about finished, than he would if his canvas were destroyed after he had merely put a few touches upon it, on the first day of his work. Out of a thousand fish in June, it may be that not more than 200 survive until November to spawn, hence a spawning fish in November, in such a case, is of the value of five fish in June, from the fishery protection point of view. The value and importance of a breeding fish is vastly increased with the approach of the breeding season. Thus there is necessity for protecting the parent fish of valuable species, with the utmost strictness, at spawning time. As there is always some slight variation in the spawning operation in different individuals, a close season rarely attempts to cover all possible spawning specimens. The lake whitefish which is one of the most regular and rapid spawning fish varies a little in different years, but on the whole the month of November covers the main period in most provinces of the Dominion. This year in the Detroit River the season was at least two weeks later than usual, and in the North-west Territories some whitefish have been found containing ripe spawn in October, and again others in December. The so-called lake-herring or lesser whitefish, usually regarded as spawning in November, has been found carrying ripe eggs in June, a specimen four or five years ago being sent to me from Lake Erie by Mr. Edward Harris, of Port Dover. It is usually most desirable to protect every spawning fish possible, of valuable kinds; but in other cases as in the great lake trout or salmon-trout of the lakes there is much to be said in favour of the present season, viz: November, in Canada. Their main spawning period is late in October, and as the law stands great numbers of ripe spawning fish are taken annually although this year they were later than usual. The great lake trout is a strong, predacious and in some respects, undesirable fish. making war upon whitefish and all other kinds. It does not require the same amount of legal protection as a defenceless weak species, like the toothless whitefish, hence it suffices for the 'fresh-water shark', as the great lake trout has been called, to be partially protected only, so that they may not exterminate equally valuable kinds and over-run the waters. The present close season for the great lake trout is perhaps too short, but it has sufficed in Lake Huron and Georgian Bay at any rate to ensure the maintenance of a fair supply of these fish. It is plain that predacious species call for less protection than more harmless and defenceless species. A similar observation may be applied to the speckled-trout or brook-trout. It spawns over a very long period from November until April, but a close time of six months or more could only be justified on the ground that the species requires the preservation of every spawning specimen, a contention for which convincing evidence would not be easy to adduce.

The conclusion was reached by the Tweed Salmon Commission in 1896 that the supply of salmon can be kept up, if a sufficient proportion of each run of fish is en-

abled to reach the rivers and ascend to the spawning grounds.

This is the great argument in favour of a weekly close season on salmon rivers; but there is no doubt on some of the great rivers of Canada, as on the Fraser River or Skeena River, that the fish which have passed the lower fishing grounds during Sunday are overtaken on Monday morning by fishermen who hurry to the highest limit up the river allowed by law, and capture the fish after the first few miles of their ascent. This may be so on the Restigouche and other eastern rivers where the nets, some miles up the river, take the fish on Monday which have passed the lower nets in the estuary during the Sunday close time. An annual close time is necessary not only to supplement the partially ineffective weekly close time; but to render illegal the capture and handling of spawning fish by poachers.

In all civilized countries, possessing salmon rivers, a rigidly defined close time covering as far as possible the spawning season, has been enforced and with good

effect. Fish taken illegally during the 30, 40 or 60 hours weekly close time may be legally possessed and sold, on Monday or Tuesday, if the illegal capture be not detected. But it is difficult to keep illegal salmon during a long annual close time, without risk of detection, and if discovered, their condition proves them to be unseasonable and illegal fish. Moreover an annual close season may be enacted (like the ten days close time in September in British Columbia) for several subsidiary reasons as for instance to prevent the capture of very late incoming salmon, like the last stragglers (discoloured, soft and disgusting in appearance) of the Blue-back or, Sockeye run, and to cover simultaneously one of the earliest runs of Cohoe Salmon both of them very desirable objects, the one on economic and health considerations, the other on protective grounds, thus the canning of salmon in bad condition, and the perpetuation of an early run of a valuable species are accomplished by this ten days interregnum. Fishery regulations per se have no direct connection with health or sanitary regulations, yet the purposes of the latter regulations are often indirectly aided and accomplished by the former. Fish in an unseasonable, emaciated and degenerate condition cannot be good food. The Pacific Salmon which have mounted many hundreds of miles, are ill-conditioned, semi-putrid and wholly unfit to be eaten, yet they would be largely consumed, and many factories would not hesitate to can them, did not the law (by close time regulations) prevent it. In remote districts, Indians and white men too, are said to use them for food and outbreaks of disease may be often traced to this cause.

Oyster regulations have had a similar object largely in view, and have prohibited the taking and sale of 'sick' or spatting oysters as much on grounds of health,

rightly or wrongly, as for protection purposes.

Close seasons as a rule cover periods when fish may not only be taken more numerously (as they are then schooling) but more easily (as the females are more heavy with spawn;) but they are also intended to protect the weakly emaciated spent fish after spawning, as well as the vigorous 'full' fish before spawning. It is well known that shad on descending from their breeding grounds up river, are little more than skin and bone, yet worthless and emaciated though they are, the fishermen strain every nerve to capture them. A Shad close time should cover the descending fish as well as protect the ascending schools. The same reason may be urged for a long close season for salmon. It prevents the capture of black slink salmon and unsightly kelts. It no doubt enables the young fish, the smolts, to descend to the sea undisturbed. There is every reason to prevent a river or lake from being disturbed all through the year by fishing operations, and the fish harassed and driven about by long lines of nets.

The Canadian regulations for salmon, etc., have worked untold benefit in preventing the continuous disturbance of the fishing grounds from January to December. Had it been permitted, the fish would no doubt forsake such waters, never to return. Special close times, covering several years in some cases, have been devised to restore depleted fisheries. Thus in 1892 a close time for three years for striped sea bass was enforced in New Brunswick. The beneficial result was most marked, and the fish which had been almost exterminated increased—more rapidly than either the authorities or the fishermen could have reasonably anticipated. All fisheries are not so readily restored, and a long period of prohibition in the St. John River, in New Brunswick, appears to have been ineffectual to restore the depleted and destroyed sturgeon fishery there. The same difficulty in restoration, by a lengthy close time, has been observed in lobster fisheries, when these have been once depleted.

It has been possible, in the case of some fisheries, to so arrange the annual close time, that the fish about to spawn are protected from capture before the actual spawning period. The smelt, for instance, do not spawn as a rule for some weeks after the present close time begins, but as the netting season draws to its end a vast number of smelts are found to be swollen with eggs that are rapidly approaching the ripe stage. It is no doubt due to this antedated close time that the smelt still abound in vast schools at the mouth of the Miramichi, the Richibucto, the Restigouche and other rivers, although as many as 4,000 or 5,000 tons have been captured during the short netting season of a few weeks. A close season to achieve fully its object should, if possible, protect the first as well as the last spawners. It

should do this in order to keep up the early runs, which in most marketable fish are by far the most valuable. It should also prevent the last spawners from being captured, as the late fish are always in a poor, flabby and unseasonable condition for food. The capture of early runs has in the case of salmon rivers had the effect of wholly destroying them and of rendering such rivers late. Late rivers imply a large proportion of degenerate, unsightly and undesirable fish. Prohibitions again have been enacted to prevent the disturbance of one kind of fish by fishing operations carried on for other kinds of fish. Thus nets for whitefish, pickerel or dore, and for coarse fish such as catfish, pike and suckers were prohibited in the Bay of Quinte for many years, not to protect the fish just mentioned, but on other accounts. Thus in summer such nets would take spawning bass, or, at any rate, would disturb them while spawning, and later would interfere with the bass anglers who desired these fine black bass grounds to be free from nets at the time. The fishermen themselves were not strongly averse to this summer net prohibition for three reasons-(a) they were employed by the anglers as boatmen and in other ways; (b) their nets readily rotted and became useless if used in hot weather; (c) catfish and other coarse kinds are soft and in poor condition in summer and fall, whereas in the cold winter months they are most valuable and in prime condition for market.

Very various, indeed, are the grounds for enacting close seasons and the reasons for enforcing them, but the ultimate object is the promotion and improvement of the fish supply, and conferring thereby substantial benefit on the fishermen and the

public.

It is from the fishermen and from the public, therefore, that the authorities ought to look for every aid in the laudable task of fish protection. That such aid is not always to be relied upon is a matter of common knowledge. Indeed, it is too often the case that the parties likely to derive most benefit permanently from a brief protective prohibition do not realise that such benefit must inevitably accrue to them.

The published views of a well known Ohio fisherman may be given as an example. He said:—'Regarding this matter of a close season I have certainly some convictions. The difficulty along our part of the line of Lake Erie, which we have to encounter, is that the time that you can take these fishes best for the market is in the month of November, and in no other month to speak of can you take any whitefish in the head of Lake Erie. It is true that the head of Lake Erie is the natural spawning ground probably for the whitefish, but if you do not take them in the fall with pound-nets and other appliances in the head of Lake Erie, they must then take them with gill-nets. Now there is no use of making a close season to shut out this fishing article of food. You take the fishing of Ohio, and you take the month of November out of the fishing month, and you might just as well hang up your nets entirely on the American side, that is, on the headwaters. The month of November is the only time that it is possible to eatch the fish, that is fish for commerce.'

A prominent member of a fishing firm in Michigan said: 'I think a close season to commence the first of September and end the first of January, would be what we ought to have. I think the State ought to take the money that is expended in hatching fish, and pay the fishermen to stop fishing during the close season; that is, pay the fishermen for their time while they are lying still in the fall, during the fall fishing season.'

Such an expression of opinion is proof of the unwillingness of the fishing community to realise the purpose and meaning of close seasons for fish. Public opinion does not appear to have reached the necessary state of enlightenment. The California Fishery Commissioners when they reported regarding salmon protection

on the depleted Sacremento River in 1882, said :-

'The Commission has much satisfaction in being able to report that there now appears to exist a more harmonious feeling upon the necesity of preserving the fish in our rivers. During the year last past, from all the information we have, there has been exhibited, on the part of the conductors of the canning business, a fair and earnest desire to enforce the close season, and a commendable realization of the importance of preserving the fish from wasteful destruction, and allowing

them to reach their breeding-grounds in sufficient numbers. But still there has been a great deal of surreptitious violation of the laws by itinerant fishermen, whose depredations can only be prevented by the people in the immediate neighborhood by assisting in enforcing the law; for it may here, we think, be pertinently remarked, that the 'American citizen,' whilst' exhibiting the highest order of natural ability for the making of laws, seems to almost entirely overlook the fact that it is also his privilege and duty, individually, to aid in the enforcement of them.'

This lack of support on the part of the public in the enforcement of just and necessary fishery laws is not confined to the United States; but the view, at one time prevalent, that the product of the waters is common property which any one may secure how, when, and where he likes, is slowly giving way to one more enlightened and having more regard to the public interest.

APPENDIX No. 1.

EXPENDITURE AND REVENUE.

The total expenditure for all Fisheries services, except Civil Government, for the fiscal year ending June 30, 1899, including Fishing Bounty, amounted to \$417,601.16, being within the appropriation by \$1,099,27.

The total fisheries revenue, during the same period, from rents, license fees, fines and sales, including the *modus vivendi* licenses to United States vessels, amounted to

\$85.502.85.

| Service. | Expenditure | Vote. |
|-----------------------------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------|
| Fisheries Fish-breeding Fisheries protection service Fishing bounty Miscellaneous expenditure Total | | 95,000 00 34,500 00 104,890 00 160,000 00 24,310 43 |

The details of the above will be found in the Auditor General's report under the

proper headings.

In addition to the above, the following summary shows the salaries and disbursements of fishery officers in the several provinces, together with the expenses for maintenance of the different fish-breeding establishments throughout the Dominion:—

| | Service. | Expenditure | Vote. |
|-----------|------------------------|-------------|--------|
| | • | \$ cts. | \$ cts |
| isheries. | Ontario | 11,784 22 | |
| " | Quebec | 11,350 27 | |
| " | New Brunswick | 22,922 50 | |
| 44 | Nova Scotia | | |
| " | Prince Edward Island | 5,832 35 | |
| " | Manitoba | | |
| 4.4 | North-west Territories | 4,065 68 | |
| 44 | British Columbia | 8,459 47 | |
| Jeneral a | ccount | | |
| | | 2,632 12 | 95,00 |

SALARIES and Disbursements of Fishery Officers.

| | | Service. | Expenditure | Vote. |
|---------------|---------------|----------|-------------|----------|
| | | | \$ cts. | \$ cts |
| Fish-breeding | g. Ottawa hat | hery | 1,278 40 | |
| " | Newcastle | « | | |
| " | Sandwich | | | |
| " | Tadoussac | | | |
| 44 | Gaspé | ((| 1 1 1 | |
| | Magog | | 1 | |
| " | Restigouche | | | |
| " | Bedford | | | |
| " | Bay View | | | |
| 6.6 | Sydney | | | |
| 44 | Miramichi | | | |
| 44 | St John Riv. | | -,200 00 1 | |
| 4.6 | Fraser Riv. | | | |
| 44 | Selkirk | 4 | | |
| General acco | | | | |
| | Total | | 34,522 57 | 34,500 0 |

This expenditure by provinces is subdivided as follows:— EXPENDITURE.

| | · | i | | |
|----------------------------------------------------------------|------------------------|------|--------|------|
| Ontario. | \$ | cts. | \$ | cts. |
| Salaries of officers | 4,525 | | | |
| Total | | | 11,784 | . 22 |
| Quebec. | | | | |
| Salaries of officers Disbursements of officers. Miscellaneous. | 4,536 | | | |
| Total | | | 11,350 | 27 |
| New Brunswick. | | | | |
| Salaries of officers | 14,674 7,443 804 | 19 | | |
| Total | | | 22,922 | 50 |
| Nova Scotia. | | | | |
| Salaries of officers | 11,010 | | | |
| Total | | | 25,348 | 11 |
| Prince Edward Island. | | | | |
| Salaries of officers Disbursements of officers | 4,219 2,476 136 | 29 | | |
| Total | | | 6,832 | 85 |

EXPENDITURE AND REVENUE.

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EXPENDITURE-Continued.

| Manitoba. | \$ | cts. | 8 | cts |
|--------------------------------------------------------------------|--------------|------|----------------|-----|
| Salaries of officers Disbursements of officers | 1,205 678 | | | |
| Total | | | 1,883 | 37 |
| North-west Territories. | | | | |
| Salaries of officers Disbursements of officers Miscellaneous | 1,957 | | | |
| Total | | | 4,065 | 68 |
| British Columbia. | | | | |
| Salaries of officers Disbursements of officers Miscellaneous | 1,048 | 3 40 | | |
| General account | | | 8,459 2,ი32 | |
| Grand total | | | 95,278 | 59 |

FISH-BREEDING.

| | | - | | |
|--------------------------------------|--------------|--------------|-------|------|
| Newcastle Hatchery. | \$ | cts. | \$ | cts. |
| Salaries. Miscellaneous expenditure. | 594 3,168 | | | |
| Total | | | 3,762 | 01 |
| Sandwich Hatchery. | | | | |
| Salaries Miscellaneous expenditure | 900 4,041 | | | |
| Total | | ••••• | 4,941 | 89 |
| Ottawa Hatchery. | | | | |
| Salaries. Miscellaneous expenditure | | 00 40 | | |
| Total | | | 1,278 | 40 |
| Tadoussac Hatchery. | | Ì | | |
| Salaries Miscellaneous expenditure | 650 1,540 | 00 86 | | |
| Total | | ••••• | 2,190 | 86 |
| Gaspé Hatchery. | | | | |
| Salaries | 360 | 63 | | |
| Total | | | 366 | 63 |

FISH-BREEDING-Continued.

| | ī | |
|------------------------------------------------------|--------------------|------------------|
| Magog Hatchery. | \$ cts. | \$ cts |
| Salaries | 180 00 160 45 | |
| Total | | 340 4 |
| Restigouche Hatchery. | | |
| Salaries. Miscellaneous expenditure. | | · |
| Total | | 2,802 64 |
| Bedford Hatchery. | | |
| Salaries | . 450 00 991 25 | |
| Total | | 1,441 28 |
| Bay View Hatchery. | | |
| Salaries | | , |
| Total | | 950_00 |
| Sydney Hatchery. | | 1 |
| Miscellaneous expenditure | . 73 94 | |
| Total | , | 73 94 |
| Miramichi Hatchery. | | |
| SalariesMiscellaneous expenditure | | |
| Total | | 2,186 58 |
| St. John River Hatchery. | | |
| Salaries Miscellaneous expenditure | 600 00 4,728 28 | |
| Total | | 5,32 8 28 |
| Selkirk Hatchery. | | |
| Salaries | | |
| Total | | 3,967 36 |
| Fraser River Hatchery. | | |
| Salaries Miscellaneous expenditure | 500 00 3,236 14 | |
| Total | | 3,736 14 |
| General Account. | | |
| Hiscellaneous expenditure | 1,155 67 | |
| Total, Fish-breeding | | 34,522 57 |
| Total salaries and disbursements of fishery officers | | 95,278 59 |

MISCELLANEOUS.

| Miscellaneous . | \$ (| cts |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|----------------------------------------------|
| Building fishways Legal and incidental expenses. Canadian fisheries exhibit Expenditure in connection with the distribution of fishing bounties Surveys of oyster beds Issuing licen-es to United States fishing vessels Fisheries Revenue. Behring Sea Arbitration. Biological Station. J. S. Hall, Q.C—re Richelieu Eel Weirs | 876 861 904 5,034 4,261 398 509 4,552 4,709 1,100 | 08 81 73 33 71 10 62 10 |
| Total | 23,207 | 7: |

| Steamer 'Acadia.' | \$ cts. | \$ cta |
|--------------------------------------------------------------------------------------------------|--------------------------------|----------|
| Wages of officers and men | 3,582 35 4,412 22 | |
| | | 23,068 3 |
| Steamer 'La Canadienne.' | | |
| Wages of officers and men Provisions Fuel Repairs Miscellaneous expenditure | 3,303 52 1,888 25 316 28 | |
| Total | | 21,680 5 |
| Steamer 'Stanley.' | | |
| Wages of officers and men Provisions Fuel Miscellaneons expenditure | 1,811 65 | |
| Total | | 7,836 0 |
| Steamer 'Curlew. | | |
| Wages of officers and men Provisions Fuel Repairs Miscellaneous expenditure Total | | 13,342 6 |
| Steamer ' Petre' | | |
| Wages of officers and men. Provisions. Fuel. Miscellaneous expenditure. Repairs | 1,477 71 | |
| Total | | 12,155 5 |

FISHERIES PROTECTION SERVICE, &c.—Concluded.

| Steamer 'Constance.' | \$ cts. | \$ cts |
|--------------------------------------------------------|-----------------------------------------|------------|
| Wages of officers and men | 6,768 13 | I |
| Provisions | 1,942 46 | ı |
| Fuel | 5,748 04 | ı |
| Repairs | 2,753 90 | Ì |
| Miscellaneous expenditure | 3,816 31 | ı |
| Total | | 21,028 84 |
| Schooner 'Osprey.' | | |
| Wages of officers and men | 4,339 95 | |
| Provisions. | 1,446 95 | |
| Fuel | 38 15 | |
| Repairs | 488 94 | |
| Miscellaneous expenditure | 1,625 76 | |
| discernancous expenditure | 1,020 10 | |
| Total | | 7,939 75 |
| Schooner 'Kingfisher.' | | |
| Wages of officers and men | 4,655 00 | |
| Provisions | 2,442 47 | |
| Fuel | 59 63 | |
| Repairs | 530 83 | |
| Miscellaneous expenditure | 1,513 47 | |
| Total | | 9,201 40 |
| Steamer 'Dolphin.' | | |
| Wages of officers and men | 1, 4 78 6 3 | |
| Provisions | 782 84 | |
| Fuel | 500 84 | |
| Repairs | 32 16 | |
| discellaneous | 172 40 | |
| Total | | 2,966 87 |
| Fisheries Intelligence Bureau | | 2,936 20 |
| Reneral account | | |
| Jeneral account | *************************************** | 11,841 92 |
| Total | ••••• | 133,998 13 |
| LESS—Amount paid by Customs Dept. for Str. 'Constance' | 21,028 84 | |
| do do 'Stanley' | 7,836 02 | |
| 2.2.2.5 | | 28,864 86 |
| | | |

Statement of Fisheries Revenue paid to the credit of the Receiver General of Canada, for the Fiscal Year ended June 30, 1899.

| | | | \$. | cts. |
|--------------------|---------------|-----------------------------------------|-----------------|------|
| Ontario rents lice | nse fees, fir | nes, &c | 5,830 | 85 |
| Queboc | do | | 6,287 | |
| Nova Scotia | do | | 4,668 | 22 |
| New Brunswick | do | *************************************** | 10,430 | 08 |
| P. E. Island | do | *************************************** | 2,242 | 24 |
| Manitoba | do | | 1,537 | 85 |
| W. Territories | do | | 150 | 50 |
| British Columbia | do | | 45,801 | 75 |
| Less- | -Refunds | | 76 949 509 | |
| icenses to U.S. fi | shing vesse | 18 | 76,440 9,062 | |
| | Total | | 85,502 | 8 |

63 VICTORIA, A. 1900 COMPARATIVE STATEMENT of Expenditure and Revenue of the

| | 188 | 5-86. | 1886 | S-87. | 1887 | ' - 88. |
|----------------------------------------------|-------------------|-----------|------------------------|--------------------|------------------------|-----------------------|
| | Expendi- ture. | Revenue. | Expendi- ture. | Revenue. | Expendi- ture. | Revenue. |
| | \$ cta | \$ cts. | \$ cts. | \$ cts. | \$ sts. | \$ cts |
| Ontario, | 17,900 74 | 15,917 62 | 19,534 01 | 15,063 57 | 10 000 80 | 10.051.05 |
| Quebec | 13,938 21 | 2,963 75 | 14,966 55 | 3,804 66 | 19,860 52 13,463 37 | 18,251 25 5,394 99 |
| New Brunswick | 15,719 36 | 4,078 10 | 16,944 87 | 4,417 52 | 20,533 20 | 7,625 64 |
| Nova Scotia | 17,852 33 | | 18,092 21 | 1,585 28 | 18,308 02 | 3,905 44 |
| Prince Edward Island. Manitoba and North- | 3,187 73 | | 4,044 49 | 128 00 | 3,402 51 | |
| west Territories | 1,920 73 | | 2,468 25 | 5 00 | 2,816 64 | 819 25 |
| British Columbia Fish-breeding and fish- | 1,878 53 | | 5,860 72 | 943 50 | 3,661 83 | 6,934 55 |
| ways Fisheries Protection | | | 37,864 22 | | 41,082 04 | |
| Service | 37,613 30 | | 134,340 12 | | 77,102 98 | |
| Miscellaneous | 10,350 43 | | 11,327 77 | | 13,498 56 | |
| Totals | 164,400 16 | 26,088 50 | 265,443 21 | 25,947 53 | 213,729 67 | 42,931 12 |
| Fishing bounties | 161,597 39 | | 160,903 59 | | 163,757 92 | |
| | 18 | 92-93. | 189 | 3-94. | 189 | 4-95. |
| General Account Fishe- | | | | | | |
| ries Ontario | 20,116 91 | 20 692 00 | 00.004.05 | 00.000.00 | | |
| Quebec | 11,761 34 | | 22,634 37 | 28,632 82 | 21,938 56 | 33,211 60 |
| New Brunswick | 15,721 05 | | 11,692 82 | 7,211 82 | 12,459 34 | 8,836 18 |
| Nova Scotia | 19,444 22 | | 18,522 94 20,420 81 | 8,333 24 | 21,370 94 | 11,170 36 |
| Prince Edward Island | 2,847 60 | | 3,078 55 | 5,296 27 980 15 | 23,555 38 3,796 58 | 7,075 07 |
| Manitoba | 1 2 022 06 | | 5,331 29 | | • | 3,312 30 |
| North-west Territories. |) ' | , | ' | 926 99 | 6,178 71 | 2,458 80 |
| British Columbia | 5,490 60 | | 5,283 21 | 25,337 90 | 6,218 74 | 23,517 25 |
| Fish-breeding Fisheries Protection | 47,322 49 | •••••• | 45,024 67 | | 39,730 93 | |
| Service | 106,805 39 | | 115,147 59 | | 100,207 29 | |
| Miscellaneous | 100,602 14 | | 34,892 19 | | 24,619 86 | |
| Totala | 334,044 70 | 94,938 12 | 282,028 44 | 76,719 19 | 260,076 33 | 89,581 56 |
| Totals Fishing bounties | 159,752 15 | | 158,794 54 | | 160,089 42 | , |

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Fisheries Department, from July 1, 1885, to June 30, 1899.

| | 1888 | 3 - 89. | | | 1889 | -90. | | : | 1890 | -91. | | | 1891 | -9 2. | |
|---------------|------|----------------|---------|----------------|---------------|-----------------|-------------|-----------------|------|---------|-------|----------------|------|--------------|------------|
| Expen ture | | Reveni | 1e. | Expendent ture | | Reven | ue | Expen- ture. | | Reven | ue. | Expen ture | | Revenu | e. |
| \$ | cts. | \$ | cts. | | cts. | \$ | cts. | \$ | cts. | •\$ | cts. | \$ | cts. | \$ 0 | cts |
| 19,264 | 98 | 24,266 | 06 | 14,539 | 87 | 23.666 | 96 | 15,540 | 30 | 26,517 | 70 | 15,155 | 83 | 25,368 | a n |
| 12,991 | | 3,380 | | 9,670 | | 5,409 | | 10,666 | | 3,642 | | 10,917 | | 4,742 | |
| 20,298 | | 8,282 | | 14,914 | | 8,834 | | 16,082 | | 7,193 | | 15,707 | 98 | 6,334 | 83 |
| 20,201 | | 2,744 | | 17,395 | | 5,424 | 95 | 17,844 | | 5,582 | | 18,755 | 86 | 3,357 | |
| 3,746 | 69 | 140 | 00 | 3,113 | 21 | 302 | 88 | 3,242 | 25 | 667 | 00 | 1,835 | 65 | 166 | |
| 2,849 | 3 16 | 848 | 00 | 3,604 | 70 | 794 | 00 | 3,609 | 03 | 1,234 | 00 | 3,593 | 3 43 | 1,079 | 00 |
| 4,333 | | 6,416 | 00 | 3,634 | 41 | 11,367 | 50 | 4,320 | | 12,859 | | 6,158 | | 8,192 | |
| 41,315 | 12 | 352 | 50 | 39,126 | 91 | | | 39,496 | 45 | 1,286 | 50 | 43,95 | 74 | 178 | 00 |
| 69,693 | 82 | | | 64,434 | 66 | 1,176 | 38 | 83,050 | | 1,934 | 49 | 93,39 | 7 40 | | |
| 10,912 | 18 | | ••••• | 9,313 | 92 | | ••••• | 13,382 | 28 | ļ | ••••• | 17,449 | 06 | | •••• |
| 205,605 | | 46,440 | 46 | 178,748 | | 56,976 | 83 | 207,234 | | 60,917 | 19 | 226,928 | | 49,719 | 39 |
| 149,990 | 63 | | ••••• | 149,999 | 85 | | ••••• | 165,967 | 22 | ••••• | ••••• | 156,892 | 25 | | •••• |
| | 190 | 5-96. | | <u> </u> | 1 8 96 | _07 | | | 1897 | -08 | | | 1898 | -00 | |
| | | | | | - | · - | | | | | | | 1000 | | |
| •••• | | | | 2,198 | 47 | | • • • • • • | 2,389 | 66 | | | 2,632 | 12 | | |
| 24,917 | 48 | 35,681 | 68 | 21,592 | | 32,814 | 66 | 19,239 | 34 | 30,574 | 57 | 11,784 | 22 | 5,830 | 85 |
| 11,870 | 43 | 8,160 | 98 | 12,910 | | 7,876 | 12 | 11,140 | | 7,571 | | 11,350 | | 6,287 | |
| 20,526 | 56 | 10,696 | 88 | 21,671 | 92 | 10,110 | | 17,063 | | 5,317 | | 22,922 | | 10,430 | |
| 23,049 | | 6,180 | | 23,682 | 33 | 5,239 | | 21,683 | | 11,511 | | 25,348 | | 6,668 | |
| 3,555 | 87 | 2,161 | 85 | 3,744 | | 2,032 | | 6,775 | | 2,707 | | 6,832 | | 2,242 | |
| 6,915 | 20 | 2,256 | 69 | 1,908 2,181 | | 1,719 | 00 | 1,206 2,324 | | 1,515 | | 1,883 4,068 | | 1,537 150 | |
| 6,226 | . 77 | 26,410 | 75 | 8,841 | | 39,888 | | 8,508 | | 47,864 | | 8,459 | | 45,801 | |
| 38,050 | | 20,410 | | 27,330 | | | ••••• | 28,002 | | | | 34,52 | | | |
| 102,021 | 72 |] [| | 99,357 | 41 | | | 101,807 | 96 | | | 105,133 | 3 27 | } | |
| 20, 203 | | | ••••• | 62,777 | | | ••••• | 59,919 | | | ••••• | 23,20 | | | •••• |
| 257,23 | 7 10 | 91,549 | 76 | 289,197 | 01 | 100,025 | 30 | 280,061 | 98 | 107,455 | 84 | 427,599 | 16 | 76,949 | 20 |
| 163,56 | | | | 154,389 | | | | 157 504 | | , | | 159,459 | | 1,. | |

APPENDIX No. 2.

FISHING BOUNTIES.

The payments made for this service are under the authority of Act 54-55 Vic., cap. 42, intituled: 'An Act to encourage the development of the sea fisheries and the building of fishing vessels,' which provides for the payment of the sum of \$160,000 annually, under regulations to be made from time to time by the Governor General in Council.

REGULATIONS.

The regulations governing the payment of fishing bounties are as established by the following Order in Council dated the 10th December, 1897.

Order in Council.

At the Government House at Ottawa, Friday, the 10th day of December, 1897.

Present:

HIS EXCELLENCY THE GOVERNOR GENERAL IN COUNCIL.

His Excellency, in virtue of the provisions of 'The Bounty Act, 1891,' 54-55 Victoria, chapter 42, and by and with the advice of the Queen's Privy Council for Canada is pleased to order that the regulations governing the payment of fishing bounties established by Order of the Governor in Council dated the 24th August, 1894, shall be and the same are hereby rescinded, and the following regulations substituted therefor:—

- 1. Resident Canadian fishermen who have been engaged in deep-sea fishing for fish other than shell-fish, salmon and shad, or fish taken in rivers, or mouths of rivers, for at least three months, and have caught not less than 2,500 pounds of sea-fish, shall be entitled to a bounty; provided always, that no bounty shall be paid to men fishing in boats measuring less than 13 feet keel, and not more than 3 men (the owner included) will be allowed as claimants in boats under 20 feet.
- 2. No bounty shall be paid upon fish caught in trap-nets, pound-nets and weirs, nor upon the fish caught in gill-nets fished by persons who are pursuing other occupations than fishing, and who devote merely an hour or two daily to fishing these nets but are not, as fishermen, steadily engaged in fishing.
- 3. Only one claim will be allowed in each season, even though the claimant may have fished in two vessels, or in a vessel and a boat or in two boats.
- 4. The owners of boats measuring not less than 13 feet keel which have been engaged during a period of not less than three months in deep-sea fishing for fish other than shell-fish, salmon or shad, or fish taken in rivers, or mouths of river, shall be entitled to a bounty on each such boat.

- 5. Canadian registered vessels, owned and fitted out in Canada, of 10 tons and upwards (up to 80 tons) which have been exclusively engaged during a period of not less than three months in the catch of sea-fish other than shell-fish, salmon or shad, or fish taken in rivers, or mouths of rivers, shall be entitled to a bounty to be calculated on the registered tonnage which shall be paid to the owner or owners.
- 6. The three months during which a vessel must have been engaged in fishing, to be entitled to bounty, shall commence on the day the vessel sails from port on her fishing voyage and end the day she returns to port from said voyage.
- 7. Owners or masters of vessels intending to fish and claim bounty on their vessels must, before proceeding on a fishing voyage, procure a license from the nearest Collector of Customs or Fishery Overseer, said license to be attached to the claim when sent in for payment.
- 8. Dates and localities of fishing must be stated in the claim, as well as the quantity and kinds of sea-fish caught.
- 9. Ages of men must be given. Boys under 14 years of age are not eligible as claimants.
 - 10. Claims must be sworn to as true and correct in all their particulars.
 - 11. Claims must be filed on or before the 30th November in each year.
- 12. Officers authorized to receive claims will supply the requisite blanks free of charge, and after certifying the same will transmit them to the Department of Marine and Fisheries.
- 13. No claim in which an error has been made by the claimant or claimants shall be amended after it has been signed and sworn to as correct.
- 14. Any person or persons detected making returns that are false or fraudulent in any particular will be debarred from any further participation in the bounty, and be prosecuted according to the utmost rigour of the law.
- 15. The amount of the bounty to be paid to fishermen and owners of boats and vessels will be fixed from time to time by the Governor in Council.
- 16. All vessels fishing under bounty license are required to carry a distinguishing flag, which must be shown at all times during the fishing voyage at the main topmast head. The flag must be four feet square in equal parts of red and white, joined diagonally from corner to corner. Any case of neglect to carry out this regulation reported to the Department of Marine and Fisheries will entail the loss of the bounty, unless satisfactory reasons are given for its non-compliance.

JOHN J. McGEE, Clerk of the Privy Council.

There were received for the year 1898, 14,679 claims, a decrease of 168 compared with the year 1897.

The number of claims paid during the year was 14,531, being a decrease of 189 as

compared with the previous year.

There was \$63,461 in bounties paid to vessels and their crews, and \$95,998.50 to boats and boat fishermen, making the total bounty paid during the year 1898-9, \$159,459.

The number of vessels which received bounty during the year was 784, the total tonnage being 25,108 tons, showing a decrease of 6 vessels and 617 tons, as compared with the previous year.

Bounty was paid on 13,747 boats, and to 23,501 boat fishermen during the year, being a decrease of 192 boats and 111 fishermen, as compared with 1897-8.

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General Statement of Fishing Bounty Claims received and paid for the Year 1898.

| Province. | County. | Number of Claims received. | Number of Claims rejected. | Number of Claims paid. |
|-----------------------|---------------------|----------------------------|----------------------------------|------------------------------|
| | | 101 | | 180 |
| Nova Scotia | Annapolis | 181 157 | 1 | 157 |
| | Antigonish | 537 | | 537 |
| | Cape Breton | 331 | | 331 |
| ' | Cumberland | 10 | 2 | 8 |
| | Digby | 499 | 2 | 497 |
| | Guysborough | 1,348 | 16 | 1,332 |
| | Halifax | 1,359 | 6 | 1,353 |
| | Hants | 1,000 | | 1,000 |
| | Inverness | 625 | | 625 |
| | King's | 66 | | 66 |
| | Lunenburg | 937 | 2 | 935 |
| | Pictou | 36 | 3 | 33 |
| | Queen's | 192 | 1 | 191 |
| | Richmond | 1,089 | 12 | *1,079 |
| | Shelburne | 651 | 2 | 649 |
| | Victoria | 500 | 24 | 476 |
| | Yarmouth | 258 | | 258 |
| | Totals | 8,446 | 71 | 8,347 |
| New Brunswick | Charlotte | 466 | 1 | 465 |
| 21011 21221110 | Gloucester | 346 | 15 | 331 |
| | Kent | 62 | | 62 |
| | Northumberland | 8 | | 8 |
| | RestigoucheSt. John | 1 51 | 1 | 1 50 |
| | Westmoreland | ••••••••••• | | ••••• |
| | Totals | 934 | 17 | 917 |
| Prince Edward Island | King's | 598 | 6 | 592 |
| E TIMOE MUWALU ISLANG | Prince | 439 | | *446 |
| | Queen's | 106 | 1 | *107 |
| | Totals | 1,143 | 7 | 1,145 |
| Out | Poneyanture | 776 | 11 | 765 |
| Quebec | Gaspé | 1 111 | 22 | *2,486 |
| | Rimouski | | 16 | 60 |
| | Saguenay | | 13 | 781 |
| | Totals | | 65 | 4,092 |
| | Grand totals | 14,679 | 160 | 14,531 |

^{*} Note.—The number of claims paid includes several applications for previous years, which explains the difference between claims paid and claims received, after deducting those rejected.

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DETAILED STATEMENT of Fishing Bounties paid to Vessels in each County for the Year 1898.

| Province. | County. | Number of Vessels. | Tonnage. | Average Tonnage. | Number of Men. | Amount paid. |
|------------------------|---------------------|--------------------------|-----------|---------------------|----------------------|-----------------------------------------|
| | | | | | | \$ cts. |
| Nova Scotia | Annapolis | 11 | 260 | 23.7 | 62 | 663 00 |
| | Antigonish | 1 | 10 | 10 | 3 | 29 50 |
| | Cape Breton | 11 | 178 | 16.2 | 57 | 548 50 |
| | Cumberland | 4 | 87 | 21.3 | 16 | 191 00 |
| | Digby | 50 | 1,493 | 29.43 | 429 | 4,223 00 |
| | Guysborough | 20 | 506 | 25.6 | 103 | 1,175 50 |
| | Halifax | 53 | 1,308 | 24 36 | 305 | 3,290 50 |
| | Inverness | 1 24 | 17 407 | 17 16:23 | 3 122 | 36 50 |
| | King's | 4 | 69 | 17'1 | 16 | 1,200 00 173 00 |
| | Lunenburg | 157 | 11,171 | 71.24 | 2386 | 26,680 00 |
| | Pictou | i | 23 | 23 | 2000 | 23 00 |
| | Queen's | 9 | 244 | 27.1 | 63 | 653 50 |
| | Richmond | 46 | 1,358 | 29.24 | 297 | 3,288 50 |
| | Shelburne | 60 | 1,774 | 29.34 | 495 | 4,991 50 |
| | Victoria | 5 | 114 | 22.4 | 22 | 257 00 |
| | Yarmouth | 48 | 1,849 | 38.25 | 470 | 4,904 00 |
| | Totals | 505 | 20,868 | 41.163 | 4840 | 52,328 00 |
| New Brunswick | Charlette | 40 | 874 | 17.41 | 100 | 0.100 % |
| New Drunswick | CharlotteGloucester | 49 178 | 2,100 | 17·41 11·142 | 193 627 | 2,128 50 |
| | Kent | 110 | 2,100 | 11 142 | 041 | 6,175 50 |
| | Northumberland | 3 | 39 | 13 | 11 | 110 50 |
| | Restigouche | ĭ | 26 | 26 | 4 | 52 00 |
| | St. John | 8 | 116 | 14.4 | 24 | 272 00 |
| | Totals | 239 | 3,165 | 13:48 | 859 | 8,738 50 |
| Prince Edward Island | King's | 13 | 330 | 25.5 | 71 | 791 50 |
| Z TIMOU MUWATU ISIAHU. | Prince | 6 | 143 | 23.5 | 32 | 351 00 |
| | Queen's | 5 | 88 | 17.3 | 22 | 228 00 |
| | Totals | 24 | 561 | 23.9 | 125 | 1,370 50 |
| Onebea | Ponogontu | | | | | - |
| Quebec | Bonaventure | ••••• | | 15 | | *************************************** |
| | Gaspé Rimouski | 1 | 15 | 10 | 4 | 41 00 |
| | Saguenay | 15 | 509 | 33.14 | 73 | 983 50 |
| | Totals | 16 | 524 | 32.12 | 77 | 1,024 50 |
| | Totals | 10 | 021 | , | | -, 00 |

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DETAILED STATEMENT of Fishing Bounties paid to Boats in each County for the Year 1898.

| Province. | County. | Number of Boats. | Number of Men. | Amount paid. | Total Bounty paid to Vessels and Boats in 1898. |
|----------------------|-------------------------------------------|------------------------|------------------------------------|-------------------------------------------|-------------------------------------------------|
| | | | | \$ cts. | \$ cts. |
| Nova Sco | Annapolis | 169 156 526 4 | 265 232 996 | 1,096 50 968 00 4,012 00 | 1,759 50 997 50 4,560 50 |
| | Cumberland | 447 1,312 1,300 | 9 82 7 2,053 1,836 | 35 50 3,341 50 8,497 50 7,723 00 | 226 50 7,564 50 9,673 00 11,013 50 |
| | Inverness | 601 62 | 1,321 89 | 5,224 50 373 50 | 36 50 6,424 50 546 50 |
| | Lunenburg Pictou | 778 32 | 876 47 | 3,844 00 196 50 | 30,524 00 219 50 |
| | Queen's | 182 1,033 589 | 289 1,608 941 | 1,193 50 6,662 00 3,882 50 | 1,847 00 9,949 50 8,874 00 |
| | Yarmouth | 471 210 | 746 303 | 3,082 00 1,270 50 | 3,339 00 6,174 50 |
| | Totals | 7,872 | 12,438 | 51,403 00 | 103,730 00 |
| New Brunswick | Charlotte | 416 153 62 | 681 381 98 | 2,799 50 1,486 50 405 00 | 4,928 00 7,662 00 405 00 |
| | Northumberland Restigouche St. John | 5 | 18 | 68 00 | 178 50 52 00 |
| | Westmoreland | 42 | 59 | 248 50 | 520 50 |
| | Totals | 678 | 1,237 | 5,007 50 | 13,746 00 |
| Prince Edward Island | Prince | 579 440 | 974 970 | 3,988 00 3,835 00 | 4,779 50 4,186 00 |
| | Queen's Totals | 102 | 255 | 994 50 | 1,222 50 |
| | Totals | | 2,199 | 8,817 50 | 10,188 00 |
| Quebec | Bonaventure Gaspé Rimouski | 765 2,485 60 | 1,291 4,927 92 | 5,283 50 19,729 50 382 00 | 5,283 50 19,770 50 382 00 |
| | Saguenay | 766 | 1,317 | 5,375 50 | 6,359 00 |
| | Totals | 4,076 | 7,627 | 30,770 50 | 31,795 00 |
| | Grand totals | 13,747 | 23,501 | 95,998 50 | 159,459 00 |

GENERAL STATISTICS.

The fishing bounty was first paid in 1882.

The payments were made each year on the following basis:-

1882, vessels \$2 per ton, one half to the owner and the other half to the crew. Boats at the rate of \$5 per man, one-fifth to the owner and four-fifths to the men.

1883, vessels \$2 per ton, and boats \$2.50 per man, distributed as in 1882. 1884, vessels \$2 per ton, as in 1882 and 1883.

| Boats from | 14 to 18 feet keel | \$1 (| 00 |
|------------|----------------------|-----------|----|
| do | 18 to 25 do | 1 8 | 50 |
| do | 25 feet keel upwards | 2 (| 00 |

And boat fishermen \$3 each.

1885, 1886 and 1887, vessels \$2 per ton as in previous years. Boats measuring 13 feet keel having been admitted in 1885, the rates were: -Boats from 13 to 18 feet keel, \$1; from 18 to 25 feet keel, \$1.50; from 25 feet keel upwards, \$2, and fishermen \$3 each.

1888, vessels \$1.50 per ton, one-half each to owner and crew. Boats, the same as in 1885, 1886 and 1887.

1889, 1890 and 1891, vessels \$1.50 per ton as in 1888. Boats \$1 each. fishermen \$3.

1892, vessels \$3 per ton, one half each to owner and crew. Boats \$1 each. fishermen \$3.

1893, vessels \$2.90 per ton, paid as formerly. Boats \$1 each. Boat fishermen \$3. 1894, vessels \$2.70 per ton, distributed as in previous years. Boats \$1 each. Boat fishermen \$3.

1895, vessels \$2.60 per ton, half each to owner and crew. Boats \$1 each. Boat

fishermen \$3.

1896, vessels \$1 per ton, which was paid to the owners, and vessel fishermen \$5 each, clause 5 of the regulations having been amended accordingly. Boats \$1 each, and boat fishermen \$3.50 per man.

1897, vessels \$1 per ton, and vessel fishermen \$6 each. Boats \$1 each, and boat

fishermen \$3.50 per man.

1898, vessels \$1 per ton, and vessel fishermen \$6.50 each. Boats \$1 each, and boat

fishermen \$3.50 per man.

Since 1882, 13,854 vessels, totalling a tonnage of 502,849 tons, have received the bounty. The total number of vessel fishermen which received bounty is 105,503, being an average of 8 men per vessel.

The total number of boats to which bounty was paid since 1882 is 238,546, and

the number of fishermen 447,215. Average number of men per boat, 2.

The highest bounty paid per head to vessel fishermen was \$21.75 in 1893; the lowest 83 cents, while the highest to boat fishermen was \$4, the lowest \$2.

The general average paid per head is \$4.85.

(1) Total number of Fishing Bounty Claims received and paid by the Department of Marine and Fisheries. COMPARATIVE STATEMENT by Provinces for the Years 1882 to 1898, inclusive, showing:-

| Овар | NOVA SCOTIA | BOOTIA. | NEW BRUNSWICK. | INSWICK. | PRINCE EDWARD ISLAND | KRD ISLAND. | Ооввес. | BEC. | TOTAL. | AL. |
|--------|-------------|---------|----------------|----------|----------------------|-------------|-----------|--------|-----------|---------|
| | Received. | Paid. | Received. | Paid. | Received. | Paid. | Received. | Paid. | Received. | Paid. |
| 1882. | 6,730 | 6,613 | 1,257 | 1,142 | 1,169 | 1,100 | 3,162 | 3,117 | 12,318 | 11,972 |
| 1883 | 1,171 | 7,076 | 1,693 | 1,579 | 1,138 | 1,106 | 3,602 | 3,325 | 13,604 | 13,086 |
| 1884 | 1,007 | 6,930 | 1,252 | 1,224 | 923 | 882 | 3,470 | 3,429 | 12,652 | 12,468 |
| 1885 | 7,646 | 7,599 | 1,609 | 1,588 | 1,117 | 1,025 | 3,943 | 3,912 | 14,315 | 14,124 |
| 1886 | 7,639 | 1,702 | 1,767 | 1,763 | 1,131 | 1,080 | 4,275 | 4,355 | 14,812 | 14,900 |
| 1887 | 8,262 | 8,227 | 1,975 | 1,958 | 1,201 | 1,126 | 4,138 | 4,105 | 15,576 | 15,416. |
| 1888 | 8,481 | 8,429 | 2,065 | 2,026 | 1,153 | 834 | 4,328 | 4,310 | 16,027 | 15,599 |
| 1889 | 8,816 | 8,523 | 2,428 | 2,392 | 1,211 | 1,511 | 4,664 | 4,652 | 17,119 | 17,078 |
| 1890 | 9,337 | 9,429 | 2,522 | 2,469 | 1,352 | 1,257 | 4,860 | 4,804 | 18,071 | 17,959 |
| 1891 | 10,242 | 10,063 | 2,831 | 2,084 | 1,482 | 1,446 | 5,108 | 4,913 | 19,663 | 18,506 |
| 1892 | 8,272 | 8,186 | 1,067 | 1,001 | 1,065 | 1,051 | 4,425 | 4,204 | 14,829 | 14,442 |
| 1893 | 7,926 | 7,844 | 196 | 881 | 1,027 | 1,012 | 4,059 | 3,898 | 13,979 | 13,635 |
| 1894 | 8,640 | 8,600 | 925 | 911 | 883 | 963 | 3,948 | 3,876 | 14,496 | 14,350 |
| 1895 | 8,835 | 8,825 | 646 | 975 | 1,009 | 1,025 | 3,904 | 3,955 | 14,727 | 14,780 |
| 1896 | 8,597 | 8,562 | 1,137 | 1,064 | 1,111 | 1,120 | 4,366 | 4,229 | 15,211 | 14,975 |
| 1897 | 8,450 | 8,418 | 1,042 | 166 | 1,175 | 1,171 | 4,180 | 4,149 | 14,847 | 14,729 |
| 1898 | 8,446 | 8,347 | 934 | 116 | 1,143 | 1,145 | 4,171 | 4,092 | 14,679 | 14,531 |
| Totals | 140,497 | 139.373 | 26,450 | 24,965 | 19,390 | 18,857 | 70,588 | 69,325 | 256,925 | 252,550 |
| | | | | | | | | | | |

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(2) Number of vessels, tonnage and number of men which received Bounty in each year.

| | | | | | | | | | - | • | | ` . | | | |
|---------------|--------------------|---------------|----------------|--------------------|----------------|----------------|--------------------|----------------------|----------------|--------------------|---------------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------------|
| 11 <i>a</i> — | Ż | Nova Scotia. | IA. | NEW | NEW BRUNSWICK. | ICK. | PRINCE | PRINCE EDWARD ISLAND | ISLAND. | | Дуввис. | | a may make the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the sta | Toral. | |
| | No. of Vesseis. | Ton- nage. | No. of Men. | No. of Vessels. | Ton- nage. | No. of Men. | No. of Vessels. | Ton- nage. | No. of Men. | No. of Vessels. | Ton- nage. | No. of Men. | No. of Vessels. | Ton- nage. | No. of Men. |
| 1882 | 588 | 22,841 | 5,343 | 120 | 2,171 | 531 | 15 | 389 | 74 | 63 | 2,210 | 538 | 786 | 27,611 | 6,486 |
| 1883 | 100 | 29,788 | 6,238 | 126 | 2,102 | 496 | 16 | 450 | 99 | 63 | 2,236 | 443 | 904 | 34,576 | 7,243 |
| 1884 | 200 | 29,828 | 6,327 | 139 | 2,289 | 260 | 16 | 585 | 93 | 26 | 1,965 | 382 | 911 | 34,664 | 7,361 |
| 1885 | 629 | 27,709 | 5,897 | 128 | 2,120 | 496 | 19 | 597 | 113 | 55 | 1,791 | 317 | 831 | 32,217 | 6,823 |
| 1886 | 563 | 25,375 | 5,032 | 145 | 2,628 | 520 | 3.7 | 1,071 | 215 | 52 | 1,730 | 320 | 791 | 30,804 | 6,077 |
| 1887 | 266 | 24,520 | 4,900 | 154 | 2,889 | 263 | 38 | 1,677 | 338 | 54 | 1,883 | 334 | 813 | 30,969 | 6,135 |
| 1888 | 589 | 26,008 | 5,450 | 150 | 2,545 | 544 | 37 | 1,245 | 246 | 51 | 1,842 | 388 | 827 | 31,640 | 6,631 |
| 1889 | 597 | 27,123 | 5,684 | 153 | 2,590 | 565 | 35 | 1,274 | 239 | 48 | 1,729 | 330 | 833 | 32,716 | 6,818 |
| 1890 | 240 | 23,955 | 4,935 | 133 | 2,129 | 447 | 32 | 1,002 | 203 | 34 | 1,182 | 220 | 739 | 28,268 | 5,805 |
| 1891 | 527 | 22,780 | 4,618 | 124 | 2,051 | 411 | 27 | 178 | 155 | 27 | 924 | 168 | 705 | 26,533 | 5,353 |
| 1892 | 202 | 22,279 | 4,611 | 108 | 1,683 | 343 | 30 | 983 | 139 | 65 | 803 | 159 | 899 | 25,748 | 5,252 |
| 1893 | 536 | 23,195 | 4,780 | 210 | 2,922 | 634 | 72 | 910 | 151 | 32 | 953 | 179 | 802 | 27,979 | 5,744 |
| 1894 | 602 | 24,735 | 5,077 | 238 | 3,189 | 721 | 21 | 594 | 114 | 38 | 1,066 | 178 | 668 | 29,584 | 6,090 |
| 1895 | 603 | 25,018 | 5,184 | 238 | 3,107 | 764 | 27 | 169 | 129 | 39 | 1,362 | 173 | 206 | 30,156 | 6,250 |
| 1896 | 553 | 23,415 | 4,607 | 250 | 3,337 | 800 | 23 | 929 | 114 | 36 | 1,143 | 141 | 862 | 28,551 | 5,665 |
| 1897 | 202 | 21,323 | 4,829 | 239 | 3,079 | 816 | 20 | 490 | 109 | 5.4 | 833 | 116 | 190 | 25,725 | 5,870 |
| 1898 | 208 | 20,868 | 4,840 | 239 | 3,155 | 829 | 24 | 561 | 125 | 16 | 524 | 11 | 184 | 25,108 | 5,901 |
| Totals | 9,814 | 420,760 | 88,342 | 2,894 | 43,986 | 10,070 | 439 | 14,028 | 2,625 | 110 | 24,075 | 4,466 | 13,854 | 502,849 | 105,503 |
| | | | | | | | | | | | | | | | |

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(3) Number of Boats and boat fishermen which received Bounty in each year.

| | | | ! | | | | | | | |
|--------------|------------------|------------------|------------------|----------------|------------------|----------------|------------------|----------------|------------------|------------------|
| | Nova | Scotia | New Br | UNSWICK. | P. E. I | SLAND. | Que | BEC. | Тот | AL. |
| YEAR. | No. of Boats. | No. of Men. | No. of Boats. | No. of Men. | No. of Boats. | No. of Men. | No. of Boats. | No. of Men. | No. of Boats. | No. of Men. |
| 1882 | 6,043 | 12,130 | 1,024 | 2,530 | 1,087 | 3,070 | 3,071 | 5,716 | 11,225 | 23,446 |
| 1883 | 6,458 | 13,553 | 1,453 | 3,309 | 1,098 | 3,106 | 3,266 | 6,188 | 12,275 | 26,156 |
| 1884 | 6,257 | 12,669 | 1,086 | 2,505 | 869 | 2,346 | 3,344 | 6,416 | 11,556 | 23,936 |
| 1885 | 6,970 | 13,396 | 1,460 | 3,254 | 1,006 | 2,606 | 3.857 | 7,485 | 13,293 | 26,741 |
| 1886 | 7,140 | 13,351 | 1,618 | 3,567 | 1,048 | 2,547 | 4,303 | 7,981 | 14,109 | 27,446 |
| 1887 | 7,662 | 13,997 | 1,804 | 3,994 | 1,089 | 2,711 | 4,051 | 7,550 | 14,605 | 28,252 |
| 1888 | 7,840 | 14,115 | 1,876 | 4,148 | 797 | 2,141 | 4,259 | 7,852 | 14,772 | 28,256 |
| 1889 | 7,926 | 14,118 | 2,237 | 5,032 | 1,475 | 3,568 | 4,602 | 8,807 | 16,240 | 31,525 |
| 1890 | 8,886 | 15,738 | 2,324 | 5,242 | 1,192 | 3,024 | 4,766 | 9,241 | 17,168 | 33,245 |
| 1891 | | 16,552 | 1,928 | 4,126 | 1,383 | 3,427 | 4,865 | 9,402 | 17,701 | 33,507 |
| 1892 | | 12,307 | 893 | 1,765 | 1,021 | 2,047 | 4,181 | 7,693 | 13,774 | 23,812 |
| 1893 | | 11,748 | 671 | 1,314 | 985 | 1,962 | 3,866 | 7,245 | 12,830 | 22,269 |
| 1894 | 7,956 | 12,899 | 661 | 1,281 | 913 | 1,813 | 3,821 | 7,139 | 13,351 | 23,132 |
| 1895 | | 13,106 | 737 | 1,434 1,553 | 998 | 2,141 | 3,916 | 7,877 | 13,873 | 24,558 |
| 1896 | 8,008 | 12,454 | 814 | | 1,095 | 2,126 | 4,189 | 7,688 | 14,106 | 23,821 |
| 1897 1898 | | 12,542 12,438 | 752 678 | 1,351 1,237 | 1,151 $1,121$ | 2,147 $2,199$ | 4,125 4,076 | 7,572 7,627 | 13,939 13,747 | 23,612 23,501 |
| Totals | 129.663 | 227,113 | | 47,642 | 18,327 | 42,981 | 68,558 | 129,479 | 238,564 | 447,215 |

(4) TOTAL Number of men receiving Bounty in each year.

| YEAR. | Nova Scotia. | NewBrunswick. | P. E. Island. | QUEBEC. | Total. |
|--------|--------------|---------------|---------------|-------------|---------|
| | No. of Men. | No. of Men. | No. of Men. | No. of Men. | |
| .882 | 17,473 | 3,061 | 3,144 | 6,254 | 29,932 |
| 883 | 19,791 | 3,805 | 3,172 | 6,631 | 33,399 |
| 884 | 18,996 | 3,065 | 2,438 | 6,798 | 31,297 |
| 885 | 19,293 | 3,750 | 2,719 | 7,802 | 33,564 |
| 886 | 18,373 | 4,087 | 2,762 | 8,301 | 33,523 |
| 887 | 18,897 | 4,557 | 3,049 | 7,884 | 34,38 |
| 888 | 19,565 | 4,692 | 2,390 | 8,240 | 34,887 |
| 889 | 19,802 | 5,597 | 3,807 | 9,137 | 38,343 |
| 890 | . 20,673 | 5,689 | 3,227 | 9,461 | 39,050 |
| 891 | 21,170 | 4,537 | 3,5×2 | 9,570 | 38.85 |
| 892 | 16,918 | 2,108 | 2,186 | 7,852 | 29,064 |
| 893 | 16,528 | 1,948 | 2 113 | 7,424 | 28,013 |
| 894 | 17,976 | 2,002 | 1,927 | 7,317 | 29,223 |
| 895 | 18,290 | 2,198 | 2,270 | 8,050 | 30,808 |
| 896 | 17,061 | 2,353 | 2,240 | 7,832 | 29,480 |
| 897 | 17,371 | 2,167 | 2,256 | 7,688 | 29,49 |
| 898 | 17,278 | 2,0%6 | 2,324 | 7,704 | 29,402 |
| Totals | 315,455 | 57,712 | 45,606 | 133,945 | 552,718 |

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(5) Total annual payments of Fishing Bounty.

| Year. | Nova Scotia. | New Brunswick | P. E. Island. | Quebec. | Total. |
|--------|--------------|---------------|---------------|------------|--------------------|
| | \$ cts. | \$ cts. | \$ cts. | \$ cts. | \$ cts. |
| 1882 | 106,098 72 | 16,997 00 | 16,137 00 | 33,052 75 | 172,285 47 |
| 1883 | 89,432 50 | 12,395 20 | 8,577 14 | 19,940 01 | 130,344 85 |
| 1884 | 104,934 09 | 13,576 00 | 9,203 96 | 28,004 93 | 155,718 98 |
| 1885 | 103,999 73 | 15,908 25 | 10,166 65 | 31,464 76 | 161,539 39 |
| 1886 | 98,789 54 | 17,894 57 | 10,935 87 | 33,283 61 | 160,903 59 |
| 1887 | 99,622 03 | 19,699 65 | 12,528 51 | 31,907 73 | 163,757 92 |
| 1888 | 89,778 90 | 18,454 92 | 9,092 96 | 32,858 75 | 150,185 53 |
| 1889 | 90,142 51 | 21,026 79 | 13,994 53 | 33,362 71 | 158,526 54 |
| 1890 | 91,235 64 | 21,108 33 | 11,686 32 | 34,210 72 | 158,241 01 |
| 1891 | 92,377 42 | 17,235 96 | 12,771 30 | 34,507 17 | 156,891 85 |
| 1892 | 109,410 39 | 10,864 61 | 9,782 79 | 29,694 35 | 159,752 14 |
| 1893 | 108,060 67 | 12,524 09 | 9,328 62 | 28,320 72 | 158,234 10 |
| 1894 | 111,460 03 | 12,690 80 | 7,875 79 | 28,040 18 | 160,066 80 |
| 1895 | 110,765 27 | 12,919 32 | 9,285 13 | 30,598 27 | 163,567 9 9 |
| 1896 | 98,048 95 | 13,602 88 | 9,745 50 | 32,992 44 | 154,389 77 |
| 1897 | 102,083 50 | 13,454 50 | 9,809 00 | 32,157 00 | 157,504 00 |
| 1898 | 103,730 00 | 13,746 00 | 10,188 00 | 31,795 00 | 159,459 00 |
| Totals | 1,709,969 89 | 264,098 87 | 181,109 07 | 526,191 10 | 2,681,368 93 |

LIST of Vessels which received Fishing Bounty for the Year 1898.

PROVINCE OF NOVA SCOTIA.

ANNAPOLIS COUNTY.

| DIGBY COUNTY. | | | | | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|----------------------|-------------------|---------------------|----------|-------------|---------------------|------------------|
| Total | Amount of Bounty paid. | No. of Crew paid. | Residence. | or | Tonnage. | | Name of Vessel. | Official Number. |
| T2978 | \$ 6ts. | | | | | | | |
| T2978 | 20 50 | ,) | Margaratvilla | George Gibson | 1.1 | St. John | Anna K | 90002 |
| S8270 Alice May | 66 50 | | | David Hayden | | Digby | Annie Coggins | |
| 94700 Franklin S. Schenck Digby 44 John L. Apt Thorne's Cove 13 | 42 50 | | Port Lorne | Ambrose Sabean, sr. | | St. John | Alice May | |
| St. Andrews | 128 50 | | | | | Digby | Franklin S. Schenck | 94700 |
| Authors 10 James Aldred Margaretville 3 2 3 3 3 3 3 3 3 3 | 145 50 | | | | | do | Geo.ge J. Tarr | |
| 12 12 13 14 15 15 15 15 15 15 15 | 39 00 | | | Stephen Haynes | | Annapolis | G. P. Taylor | |
| 94732 Only Son | 29 50 25 00 | | Clamontanort | James Aldred | 10 | St. Andrews | Lily | 42089 |
| S3253 Rescue | 32 50 | | Margaretville | John Gordon | 12 | Windsor | Only Son | 94739 |
| ANTIGONISH COUNTY. | 49 50 | | Clementsport | Josiah Burrell | 17 | Annapolis | Rescue | |
| ANTIGONISH COUNTY. | 84 00 | | | | 45 | St. John | Richard Simonds | |
| Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second S | | , | | | | | | |
| Resident | | | | SH COUNTY. | ONI | ANTIG | | _ |
| CUMBERLAND COUMTY. | 29 50 | 3 | Harb'r auBouche | J.Brown & P.Decoste | 10 | Yarmouth | Komaroff | 90642 |
| Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual Residual | | | | | | | 1.011.01 | |
| | | | | ND COUMTY. | RLA | CUMBE | | |
| | 25 00 | 2 | Apple River | Abner Neves | 12 | Windsor | Brant | 88396 |
| 103023 Minnie H | 27 00 | | Partsboro' | James E. Ogilvie | | | | |
| CAPE BRETON COUNTY. | | | do | Wm. E. Haves | 12 | Parisboro' | Minnie H | |
| 100389 | 107 50 | 9 | Spencer's Island. | Burpee Tupper | 49 | do | Packet | 100515 |
| 100372 | | | | TON COUNTY. | ! BRE | CAPE I | | |
| 100372 | 1 | () | | 1 |] | 1 | (| |
| 92566 Cassie M | | | | | | | | |
| Sydney | | | | | | do | Betsy Jane | |
| September Sydney 11 Elias Leblanc Little Bras d'Or 3 | | | | | | Halifax | Cassie M | |
| September Sydney 11 Elias Leblanc Little Bras d'Or 3 | | | | | 19 | Sydney | Champion | |
| 10°381 Katie B | | | Little Brand'Or | Flias Loblana | 11 | Endney | ranny | |
| No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. | | | | | | do | Katie R | |
| | | | | | | do | Mary Ann | |
| 92600 Merit | | | | | 21 | Halifax | Mayflower | |
| 100566 Rob. S Halifax | | | | | 13 | Sydney | Merit | |
| 83431 Acadian | | 7 | Lingan | Ambrose Forward | 19 | Halitax | Rob. S | |
| 83258 Alfred | | | 1 | COUNTY. | BY | DIC | | |
| 83258 Alfred | 1 | 1 1 |] | 1 | | i | 1 | |
| 83258 Alfred | | | | | 32 | Weymouth | Acadian | |
| | | 9 | do | Edwin Hains | 29 | Digby | Alfred | |
| 90660 Alice May do 18 Edgar McDormand Westport 8 | | 8 | Westport | Edgar McDormand | - 18 | do | Alice May | 90660 |
| 88598 Alph. B. Parker St. John 39 Holland Outhouse Tiverton 12 | | 12 | Tiverton | Holland Outhouse | 39 | St. John | Alph. B. Parker | |
| 94696 Annie M. Sproul Digby | | 16 | Digby | John W Sproul | 70 | Digby | Annie M. Sproul | |
| 10:547 B & C | | 2 | westport | Augustus II | | | Carrie H | |
| 94698 Carrie H | | 10 | Digby | Howard Andorson | 67 | | | |
| 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | 16 | Westport | Howard Titus | | | | |
| 14351 Conduct Westport 1 | 1 43 90 | 5 | westport | monard litus | . 11 | Latinouth | TOURGOL | 14991 |

List of Vessels which received Fishing Bounty, &c.-Nova Scotia-Con.

DIGBY COUNTY-Concluded.

| Official Number. | Name of Vessel. | Port of Registry. | Tonnage. | Name of Owner or Managing Owner. | Residence. | No. of Crew paid. | Amount of Bounty paid. |
|------------------|-----------------------------------------------|----------------------|-----------------|----------------------------------------|-----------------|-----------------------------------------|------------------------|
| | | | | | | | \$ cts. |
| 100101 | Curlow | Chalburna | 63 | John Sime | Diaby | 16 | |
| 103181 | Curlew Edward A. Horton | | | John Sims Joseph E. Snow | | 16 14 | 167 00 158 00 |
| 77740 | Elmer | | | James Gower | | 7 | 60 50 |
| | Ernest F. Norwood | | | Joseph E. Snow | | 5 | 111 50 |
| 75757 | Etta | do | 17 | Clarence Webber | Westport | 5 | 49 50 |
| 85558 | Fair Play | Yarmouth | 11 | John A. Powell | | 2 | 24 00 |
| 74329 | Fairy Queen | do | 13 | Wallace Coggins | do | 5 | 45 50 |
| 100891 | Fleur de Lis Freeman Colgate | Weymouth | $\frac{17}{26}$ | Geo. A. Mallett Chas. Hicks & Sons | Westport | $\begin{vmatrix} 5 \\ 10 \end{vmatrix}$ | 49 50 91 00 |
| | Freddie G | | | George Gower | | 7 | 63 50 |
| | Gazelle | | | D. & O. Sproul | Digby | 7 | 65 50 |
| | Genesta | | | George Denton | Westport | 12 | 110 00 |
| 94835 | Georgie Linwood | Digby | 25 | George Denton Herbert Johnston | Digby | 5 | 57 50 |
| | Helen Maud | do | 26 | Unas. McDormand | Westport | 8 | 78 00 |
| 77786 | Hesperus | Halifax | $\frac{17}{27}$ | George Buckman Casimir R. Comeau . | do | 3 5 | 36 50 |
| 61789 | I. H. Goudey Isma | St. John | 31 | Chas. Hicks & Sons. | Westport | 19 | 59 50 96 00 |
| | John H. Kennedy | | 54 | John W. Snow | Digby | 6 | 93 00 |
| 83461 | Josie L. Day | do | 16 | Edward Keans | do | 9 | 74 50 |
| 59388 | Letitia | St. Andrews | 10 | Peter H. Belliveau | | 3 | 29 50 |
| 85690 | Lora T | Digby | 15 | Joseph Thurber | | 7 | 60 50 |
| 85534 | Lloyd | | 24 | W. H. Anderson | Digby | 9 | 82 50 |
| 85687 | Mabel | | 38 57 | William M Denton | | 14 | 129 00 135 00 |
| 100487 | Mabel B | | | M. G. Crocker Thomas Saclnier | | 4 | 38 00 |
| 85539 85682 | Maggie Jane Maiapert | | | Edward C. Bowers | | 10 | , 88 00 |
| 92640 | Minerva | | | Edward C. Bowers | | 18 | 197 00 |
| 85533 | Minnie C | Yarmouth | 12 | Chipman Thurber | Freeport | 5 | 44 50 |
| 89794 | Minnie C | Digby | | Chas. H. Bailey | Westport | 8 | 70 00 |
| 100895 | New Home | | 31 | Moïse Thibodeau | Church Point | 10 | 96 00 |
| 94825 | On Time | | 19 10 | Charles Glavin Warren Snow | Smith's Cove | $\begin{vmatrix} 9 \\ 2 \end{vmatrix}$ | 77 50 $23 00$ |
| 100539 85558 | Rowens | Varmouth | 23 | Wallace Gower | Westport | 8 | 75 00 |
| 100609 | Swan | | | Milton Hains | Freeport | 14 | 147 00 |
| 75726 | Thrush | | | Frank Lent | | 5 | 45 50 |
| 94694 | Utah and Eunice | | 33 | Milton Hains | do | 9 | 91 50 |
| 103711 | Venete | | | Stephen Doucette | Cape Cove | 8 | 68 00 |
| 100548 | Violetta | | | Arthur W Longmire | | 5 | 43 50 |
| 88264 | Walter J. Clarke | | | Wilbur P. Hamilton. Thomas Brooks | Freenort | $\begin{vmatrix} 6 \\ 7 \end{vmatrix}$ | 59 00 64 5 0 |
| 64049 100543 | Weenona W. Parnell O'Hara | | 79 | Edgar Post | Digby | 20 | 209 00 |
| 200010 | W. Tarnell O Hara | 1 | | Eught Total | | | |
| | | GUYS | BOI | RO COUNTY. | | | |
| | | 1 | 1 | 1 | 1 | 1 1 | |
| 103453 | Anna Maud | Arichat | 10 | Thurlow Munroe | White Head | 3 | 29 50 |
| 103322 | Bonnie Briar Bush | | | Henry O' Neill | Auld's Cove | 8 | 90 00 |
| 100145 | Carrie O | Canso | 12 | Samuel Grant Thomas H. Peeples | White Head | 3 | 31 50 |
| 103321 38418 | Christie Campbell | | | William S. Peart | Guyshoro | 10 | 120 00 55 50 |
| 83180 | Dolphin Friend | Halifax | | Luke Mannette, sr | | | 43 00 |
| 61622 | Gentile | Guysboro | 34 | Edward Gilley | New Harbour | 6 | 73 00 |
| 94963 | Golden Seal | | 32 | Edward B. Pelrine | Larry's River | 7 | 77 50 |
| 100161 | Hilda Maud | Pt Hawkesb'ry | | John G. Murray | Port Richmond . | 11 | 117 50 |
| 57715 | John Lawrence | Halifax | 23 | Henry A. Richard | Charlo,s Cove | 5 | 55 50 |
| | Lizzie A | | | Edward Purcell | | | 39 5 0 65 50 |
| 75577 103859 | Mary Ann Bell | | | Joseph O'Neill Benjamin David | Port Fálir | 9 | 81 50 |
| 100446 | Mary May Minnie May | Canso | 12 | William L. Dort | Sandy Cove | 3 | 31 50 |
| | use of all all all all all all all all all al | | | | | , | |

List of Vessels which received Fishing Bounty, &c.—Nova Scotia—Con.

GUYSBORO COUNTY-Concluded.

| Official Number. | Name of Vessel. | Port of Registry. | Tonnage. | Name of Owner or Managing Owner. | Residence. | No. of Crew paid. | Amount of Bounty paid. |
|------------------------------------|--------------------------------------------|-----------------------------------------|----------------------|---------------------------------------------------------------------------------------|------------|----------------------|---------------------------------------------------------------|
| 100231 75892 92575 100444 | Pearl Peter Mitchell. Robinetta Stella May | do Pt Hawkesb'ry Hali'ax Canso | 16 26 14 12 | Hubert Richard Martin Magher Michael Power Reuben Mu roe James Meagher Leander Tanner | Canso | 3 4 3 5 | \$ cts. 63 00 35 50 52 00 33 50 44 50 36 00 |

HALIFAX COUNTY

| | 1 | 1 | 1 | 1 | | | |
|----------------|------------------|-----------|----|----------------------|-----------------|-------|--------|
| 90495 | Annie L | Halifax | 34 | Joseph Scott | East Dover | 6 | 73 00 |
| 100221 | Baleka | do | 31 | Gray Bros | Sambro | 7 | 76 50 |
| 94662 | Bessie Florence | do | 12 | Chas. W. Twohig | Pennant | 4 | 38 00 |
| 103858 | B & B. Holland | do | 26 | Richard Holland | Portuguese Cove | 7 | 71 50 |
| 9(:496 | Black Prince | do | 18 | J. W. Slaun white | | 5 | 50 50 |
| 103537 | Bonacord | do | 12 | James W. Smith | Sambro | 2 | 25 00 |
| 90721 | Brilliant Star | do | 56 | Peter Hartlin | | 10 | 121 00 |
| 96799 | Catherine A. C | do | 17 | Hezekiah Cleveland | | 5 | 49 50 |
| 103852 | Dawn | do | 13 | James & Thos. Parker | | 2 | 26 00 |
| 59484 | Day Spring | Helifor | 36 | George L. Baker | | 8 | 88 00 |
| 90481 | Ella D | do | 32 | Archibald Darrah | Harring Core | 10 | 97 00 |
| 90726 | Ellen Maud | | 16 | Samuel Wilson | | 6 | 55 00 |
| 103749 | Emerald | | 29 | Fader & Co | | 7 | 74 50 |
| 85738 | Emma F | Helifor | 13 | Amos Graves | Foot Doron | 3 | 32 50 |
| | Emma F | пашах | 1 | | | | |
| 96785 | Eva M. B | do | 45 | Daniel Bonang | Dannant | 6 | 84 00 |
| 100247 | Fairy Queen | | 11 | Geo. H. Nickerson | | 2 | 24 00 |
| 85644 | Flora | do | 42 | Patrick Scallion | | 10 | 107 00 |
| 100259 | Florence G | do | 15 | Caleb Gray | Sambro | 3 | 34 50 |
| 100228 | Golden Dawn | do | 46 | George Conrod | | 13 | 130 50 |
| 103544 | Grace D | do | 10 | James Marryatt | Pennant | 3 | 29 50 |
| 882 0 | Grandee | do | 14 | John P. Slaunwhite | | 3 | 33 50 |
| 90489 | Green Leaf | do | 44 | Martin Julien | W. Chezzetcook. | 8 | 96 00 |
| 83306 | I. O. N. A | do | 26 | Andrew Sullivan | Herring Cove | 8 | 78 00 |
| 10 0216 | Katie M | do | 11 | Charles Nelson | Halifax | • | 11 00 |
| 69105 | Lady of the Lake | do | 20 | Richard Christian | | 6 | 59 00 |
| 94665 | Louis Luby | do | 41 | William Lapierre | W. Chezzetcook. | 11 | 112 50 |
| 100580 | Maggie E. C | do | 20 | David Covey | Haggets Cove | 7 | 65 50 |
| 96805 | Maggie May | do | 62 | Jeremiah Fillis | W. Chezzetcook. | 18 | 179 00 |
| 85664 | Mary E | do | 14 | Andrew Twohig | Pennant | 3 | 33 50 |
| 100227 | May | do | 10 | Thos. E. Little | Terence Bay | 3 | 29 50 |
| 103182 | Meta | Shelburne | 18 | James Reno | Herring Cove | 5 | 50 50 |
| 100254 | Myrtle M. Gray | Halifax | 19 | James Gray | Pennant | 6 | 58 00 |
| 85665 | Nellie D | do | 12 | Daniel Smith | | 4 | 38 00 |
| 94667 | Nettie M. G | do | 32 | Mathew Lynch | | 7 | 77 50 |
| 103539 | Neva | do | 11 | Ephraim Marryatt | Pennant | 2 | 24 00 |
| 100245 | Oracle | do | 18 | W. McC. Boak | | 4 | 44 00 |
| 85562 | Oresa | do | 14 | Lawson B. Corkum | | 5 | 46 50 |
| 100241 | Pansy | do | 32 | George Schnair | | 7 | 77 50 |
| 92571 | Primrose | do | 14 | Angus Gray | | 4 | 40 00 |
| 100474 | K. Beatrice | do | 19 | James Morash | West Dover | 5 | 51 50 |
| 75575 | Rising Dawn | do | 18 | Frederick Boutilier | | 5 | 50 50 |
| 96806 | Rising Sun | do | 28 | George Julien | | 4 | 54 00 |
| 69084 | Saint Agnes | do | 30 | Ebenezer Homans | | 4 | 56 00 |
| 64869 | Sarah L. Oxner | do | 34 | Edward Hayes | | 10 | 99 00 |
| 100255 | Sea Flea | do | 12 | | | 1 | 31 50 |
| | Staletta | | 25 | James Stevens | | 3 | |
| 103538 | Startle. | do | | W. Charles Henley | | 4 | 51 00 |
| 103193 | T. W. Smith | | 11 | Charles F. Martin | | 5 | 43 50 |
| 77836 | т. т. оши | mariiax | 35 | Charles Beaver | opry Bay | (O) | 67 50 |

LIST of Vessels which received Fishing Bounty, &c.-Nova Scotia-Con.

HALIFAX COUNTY-Continued.

| Official Number | Name of Vessel. | Port of Registry. | Tonnage. | Name of Owner or Managing Owner. | Residence. | No. of Crew paid. | Amount of Bounty paid. |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| | | | | | | | \$ cts. |
| 96781 | | | | Edward Dempsey | Herring Cove | 12 | 121 00 |
| 61904 92578 | Water Lily Willeta | | 14 | Isaac Morash Joseph Gray | Sembro | 3 3 | 33 50 31 50 |
| 100226 | Willie H. Crosby | | 65 | James Julien | W. Chezzetcook. | 7 | 110 50 |
| 85378 | Zephyr | | 16 | Robert Slaunwhite, (pro. P.) | _ | | |
| | | | | (pro. P.) | Terence Bay | 5 | 48 50 |
| - | | на | NTS | COUNTY. | | | |
| 75614 | Fawn | Digby | 17 | Henry E. Ogilvie | Summerville | 3 | 36 50 |
| _ | | INVEF | RNES | SS COUNTY. | | | |
| 71302 | Alice | Charlottetown | 10 | Pepin P. Chiasson | Belle Côte | 6 | 49 00 |
| 103320 | Ben Hur | P. Hawkesbury | 61 | W. H. Paint | Pt.Hawkesbury | 11 | 132 50 |
| 103452 | Charlotte Catherine | Arichat | 73 | David Walker | do | 12 | 151 00 |
| 103313 96778 | | | 10 | Severin Chiasson Charles Robin, Collas | | 4 | 36 00 |
| 90118 | Campania | do | 11 | & Co. (Ltd.) | do | 4 | 37 00 |
| 83244 | Claribel | Charlottetown | 19 | Charles Doucet | do | 6 | 58 00 |
| | | CHAITOTTCTOWN | ii | Magloire Poirier | | 4 | 37 00 |
| | Elizabeth Ann | P.Hawkesbury | | | | | |
| 96768 | Elizabeth Ann | P.Hawkesbury do | 11 | Simeon Belfountain | Eastern Harbour | 4 | 31 00 |
| 96768 96774 103317 | FlorenceFlying Star | do do | 11 11 | Simeon Belfountain Paul Desveaux | Eastern Harbour | 4 | |
| 96768 96774 103317 103312 | Elizabeth Ann Florence Flying Star Laura | do do | 11 11 13 | Simeon Belfountain Paul Desveaux Mederick Aucoin | Eastern Harbour do Margaree Harbor | 4 6 | 37 00 52 00 |
| 96768 96774 103317 103312 103316 | Elizabeth Ann Florence Flying Star Laura Laura | do do do do | 11 11 13 10 | Simeon Belfountain Paul Desveaux Mederick Aucoin Ubald Bourgeois | Eastern Harbour 'do MargareeHarbor Eastern Harbour | 4 4 6 4 | 37 00 52 00 36 00 |
| 96768 96774 103317 103312 103316 103315 | Elizabeth Ann Florence. Flying Star Laura. Lillie. | do do do do do | 11 11 13 10 | Simeon Belfountain Paul Desveaux Mederick Aucoin Ubald Bourgeois Fiddle Chiegeon | Eastern Harbour 'do MargareeHarbor Eastern Harbour | 4 4 6 4 5 | 37 00 52 00 36 00 44 50 |
| 96768 96774 103317 103312 103316 103315 103318 | Elizabeth Ann Florence Flying Star Laura Laura Lillie Little Heir | do do do do do do | 11 11 13 10 12 19 | Simeon Belfountain Paul Desveaux Mederick Aucoin Ubald Bourgeois Fidèle Chiasson Eusèbe Chiasson | Eastern Harbour 'do MargareeHarbor Eastern Harbour do Eastern Harbour | 4 4 6 4 5 5 | 37 00 52 00 36 00 44 50 51 50 |
| 96768 96774 103317 103312 103316 103315 103318 96775 | Elizabeth Ann Florence. Flying Star. Laura. Laura. Lillie. Little Heir. Louise. | do do do do do do | 11 13 10 12 19 | Simeon Belfountain Paul Desveaux Mederick Aucoin Ubald Bourgeois Fidèle Chiasson Eusèbe Chiasson Simeon Belfountain. | Eastern Harbour 'do MargareeHarbor Eastern Harbour | 4 4 6 4 5 | 37 00 52 00 36 00 44 50 51 50 |
| 96768 96774 103317 103312 103316 103315 103318 96775 | Elizabeth Ann Florence Flying Star Laura Laura Lillie Little Heir | do do do do do do | 11 13 10 12 19 | Simeon Belfountain Paul Desveaux Mederick Aucoin Ubald Bourgeois Fidèle Chiasson Eusèbe Chiasson Simeon Belfountain. Chas. Robin, Collas & | Eastern Harbour do Margaree Harbor Eastern Harbour do Eastern Harbour do | 4 4 6 4 5 5 5 | 37 00 52 00 36 00 44 50 51 50 43 50 |
| 96768 96774 103317 103312 103316 103315 103318 96775 96779 | Elizabeth Ann Florence. Flying Star. Laura. Laura. Lillie. Little Heir Louise. Majestic | do do do do do do | 11 11 13 10 12 19 11 12 | Simeon Belfountain Paul Desveaux Mederick Aucoin Ubald Bourgeois Fidèle Chiasson Eusèbe Chiasson Simeon Belfountain Chas. Robin, Collas & Co. (Ltd.) | Eastern Harbour 'do Margaree Harbour Eastern Harbour do Eastern Harbour do do | 4 4 6 4 5 5 5 | 37 00 52 00 36 00 44 50 51 50 43 50 |
| 96768 96774 103317 103312 103316 103315 103318 96775 | Elizabeth Ann Florence Flying Star Laura Laura Lillie Little Heir Louise Majestic Marie Marie Joseph | do do do do do do | 11 11 13 10 12 19 11 12 | Simeon Belfountain Paul Desveaux Mederick Aucoin Ubald Bourgeois Fidèle Chiasson Eusèbe Chiasson Simeon Belfountain. Chas. Robin, Collas & | Eastern Harbour do Margaree Harbour Eastern Harbour do Eastern Harbour do do | 4 4 6 4 5 5 5 | 37 00 52 00 36 00 44 50 51 50 43 50 38 00 36 00 |
| 96768 96774 103317 103312 103316 103315 103318 96775 96779 96771 96777 103314 | Elizabeth Ann Florence Flying Star Laura Laura Liltle Little Heir Louise Majestic Marie Marie Mary | do do do do do do do do | 11 11 13 10 12 19 11 12 10 11 10 | Simeon Belfountain. Paul Desveaux. Mederick Aucoin Ubald Bourgeois Fidèle Chiasson Eusèbe Chiasson Simeon Belfountain Chas. Robin, Collas & Co. (Ltd.) John Roach Victor Roach | Eastern Harbour do Margaree Harbour Eastern Harbour do do do do do do | 4 6 4 5 5 5 4 4 4 4 4 | 37 00 52 00 36 00 44 50 51 50 43 50 38 00 36 00 37 00 36 00 |
| 96768 96774 103317 103316 103315 103318 96775 96779 96771 96777 103314 96769 | Elizabeth Ann Florence. Flying Star. Laura. Laura. Lillie. Little Heir. Louise. Majestic Marie Marie Joseph. Mary Mary Lambert. | do do do do do do do do | 11 11 13 10 12 19 11 12 10 11 10 11 | Simeon Belfountain. Paul Desveaux. Mederick Aucoin Ubald Bourgeois Fidèle Chiasson Eusèbe Chiasson Simeon Belfountain Chas. Robin, Collas & Co. (Ltd.) John Roach Victor Roach Paul Aucoin Chas. Chiasson | Eastern Harbour do Margaree Harbour do do do do do do do do do do do do | 44645555444455 | 37 00 52 00 36 00 44 50 51 50 43 50 38 00 36 00 37 00 43 50 |
| 96768 96774 103317 103312 103315 103318 96775 96779 96771 96777 103314 96769 69125 | Elizabeth Ann Florence. Flying Star. Laura. Laura. Lillie. Lillie. Louise. Majestic Marie Marie Joseph Mary Mary Lambert. May Flower. | do do do do do do do do Halifax | 11 11 13 10 12 19 11 12 10 11 10 11 20 | Simeon Belfountain. Paul Desveaux | Eastern Harbour do Margaree Harbour do Eastern Harbour do do do do do tottle River Eastern Harbour | 4 6 4 5 5 5 4 4 4 5 6 | 37 00 52 00 36 00 44 50 51 50 43 50 38 00 36 00 37 00 43 50 59 00 |
| 96768 96774 103317 103316 103315 103318 96775 96779 96777 103314 96769125 96770 | Elizabeth Ann Florence Flying Star Laura Laura Lillie Little Heir Louise Majestic Marie Marie Joseph Mary Lambert May Flower O. L. B | do do do do do do do Halifax | 11 11 13 10 12 19 11 12 10 11 10 11 20 12 | Simeon Belfountain Paul Desveaux Mederick Aucoin Ubald Bourgeois Fidèle Chiasson Eusèbe Chiasson Simeon Belfountain. Chas Robin, Collas & Co. (Ltd.) John Roach Victor Roach Paul Aucoin Chas. Chiasson Hyacinthe Chiasson Didace Boudrot | Eastern Harbour do Margaree Harbour do Eastern Harbour do do do do do totale River Eastern Harbour | 4 6 4 5 5 5 4 4 4 4 5 6 5 | 37 00 52 00 36 00 44 50 51 50 43 50 38 00 36 00 37 00 43 50 59 00 44 50 |
| 96768 96774 103317 103312 103316 103318 96775 96779 96771 103314 96769 69125 96770 96962 | Elizabeth Ann Florence. Flying Star. Laura. Laura. Lillie. Little Heir Louise. Majestic Marie Marie Joseph Mary Mary Lambert May Flower O L B. Sunrise | do do do do do do do do do Halifax | 11 11 13 10 12 19 11 12 10 11 10 11 20 12 18 | Simeon Belfountain Paul Desveaux Mederick Aucoin Ubald Bourgeois Fidèle Chiasson Eusèbe Chiasson Simeon Belfountain. Chas. Robin, Collas & Co. (Ltd.) John Roach Victor Roach Paul Aucoin Chas. Chiasson Hyacinthe Chiasson Hyacinthe Chiasson John J. McDonald | Eastern Harbour do Margaree Harbour do Eastern Harbour do do do do do Eastern Harbour do Seastern Harbour do Seastern Harbour do Eastern Harbour do Seaside | 4 4 6 4 5 5 5 5 4 4 4 4 5 6 5 2 | 37 00 52 00 36 00 44 50 51 50 43 50 36 00 36 00 43 50 59 00 44 50 31 00 |
| 96768 96774 103317 103312 103316 103315 103318 96775 96777 96777 103314 96769 69125 96770 96960 996970 | Elizabeth Ann Florence. Flying Star. Laura. Laura. Lillie. Lillie. Louise. Majestic Marie Joseph Mary Mary Lambert. May Flower O. L. B. Sunrise Virgin | do do do do do do do do do Halifax | 11 11 13 10 12 19 11 12 10 11 10 11 20 12 18 10 | Simeon Belfountain Paul Desveaux Mederick Aucoin Ubald Bourgeois Fidèle Chiasson Simeon Belfountain. Chas. Robin, Collas & Co. (Ltd.) John Roach Victor Roach Victor Roach Paul Aucoin Hyacinthe Chiasson Hyacinthe Chiasson John J. McDonald Michael Ramurd | Eastern Harbour Margaree Harbor Eastern Harbour do Eastern Harbour do do do do Eastern Harbour do Eastern Harbour do Eastern Harbour | 4 4 6 4 5 5 5 5 4 4 4 4 5 6 5 2 4 | 37 00 52 00 36 00 44 50 51 50 43 50 38 00 36 00 43 50 59 00 44 50 59 00 44 50 59 00 44 50 59 00 |
| 96768 96774 103317 103312 103316 103318 96775 96777 96777 103314 96769 69125 96770 96962 | Elizabeth Ann Florence. Flying Star. Laura. Laura. Lillie. Little Heir Louise. Majestic Marie Marie Joseph Mary Mary Lambert May Flower O L B. Sunrise | do do do do do do do do do Halifax | 11 11 13 10 12 19 11 12 10 11 10 11 20 12 18 | Simeon Belfountain Paul Desveaux Mederick Aucoin Ubald Bourgeois Fidèle Chiasson Eusèbe Chiasson Simeon Belfountain. Chas. Robin, Collas & Co. (Ltd.) John Roach Victor Roach Paul Aucoin Chas. Chiasson Hyacinthe Chiasson Hyacinthe Chiasson John J. McDonald | Eastern Harbour do Margaree Harbour do Eastern Harbour do do do do do Eastern Harbour do Seastern Harbour do Seastern Harbour do Eastern Harbour do Seaside | 4 4 6 4 5 5 5 5 4 4 4 4 5 6 5 2 | 38 00 36 00 37 00 36 00 43 50 59 00 44 50 31 00 |
| 96768 96774 103317 103316 103315 103318 96775 96779 96771 103314 96769 69125 96770 96962 96773 | Elizabeth Ann Florence. Flying Star. Laura. Laura. Lillie. Lillie. Louise. Majestic Marie Joseph Mary Mary Lambert. May Flower O. L. B. Sunrise Virgin | do do do do do do do do do do Halifax | 11 11 13 10 12 19 11 12 10 11 11 20 11 12 18 10 11 | Simeon Belfountain Paul Desveaux Mederick Aucoin Ubald Bourgeois Fidèle Chiasson Simeon Belfountain. Chas. Robin, Collas & Co. (Ltd.) John Roach Victor Roach Victor Roach Hyacinthe Chiasson Hyacinthe Chiasson John J. McDonald Michael Ramurd | Eastern Harbour Margaree Harbor Eastern Harbour do Eastern Harbour do do do do Eastern Harbour do Eastern Harbour do Eastern Harbour | 4 4 6 4 5 5 5 5 4 4 4 4 5 6 5 2 4 | 37 00 52 00 36 00 44 50 51 50 43 50 38 00 36 00 43 50 59 00 44 50 59 00 44 50 59 00 44 50 59 00 |
| 96768 96774 103317 103312 103316 103318 96775 96779 96777 103314 96769 69125 96770 96962 96773 96776 | Elizabeth Ann Florence. Flying Star Laura Laura Lillie. Little Heir Louise. Marie Joseph Marie Joseph Mary Lambert May Flower O. L. B. Sunrise Virgin Willie B. | do do do do do do do do do Halifax | 11 11 13 10 12 19 11 12 10 11 11 10 12 18 10 11 | Simeon Belfountain Paul Desveaux Mederick Aucoin Ubald Bourgeois Fidèle Chiasson Simeon Belfountain. Chas. Robin, Collas & Co. (Ltd.) John Roach Victor Roach Paul Aucoin Hyacinthe Chiasson Hyacinthe Chiasson Bidace Boudrot John J. McDonald Michael Ramard Emilien Roach | Eastern Harbour Margaree Harbor Eastern Harbour do Eastern Harbour do do do Eastern Harbour do Eastern Harbour do Eastern Harbour do Eastern Harbour do Seaside Eastern Harbour do | 4 4 6 4 5 5 5 5 5 4 4 4 4 5 6 5 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | 37 00 52 00 36 00 44 50 51 50 43 50 38 00 37 00 36 00 43 50 59 00 44 50 31 00 37 00 |
| 96768 96774 103317 103316 103316 103318 96775 96779 96777 103318 96777 103318 96769 969125 96770 969676 96776 | Elizabeth Ann Florence. Flying Star. Laura. Laura. Lillie. Lillie. Little Heir Louise. Majestic Marie Joseph Mary Mary Lambert. May Flower O. L. B. Sunrise Virgin Willie B. | do do do do do do do do do do Halifax | 11 11 13 10 12 12 19 11 10 11 11 20 11 11 20 11 11 10 11 11 20 11 11 10 10 11 11 10 10 10 10 10 10 10 | Simeon Belfountain Paul Desveaux Mederick Aucoin Ubald Bourgeois Fidèle Chiasson Simeon Belfountain. Chas. Robin, Collas & Co. (Ltd.) John Roach Victor Roach Paul Aucoin Hyacinthe Chiasson Hyacinthe Chiasson John J. McDonald Michael Ramard Emilien Roach COUNTY. | Eastern Harbour Margaree Harbour do Eastern Harbour do do do do Eastern Harbour do Eastern Harbour do Eastern Harbour do Eastern Harbour do Seaside | 4 4 6 4 5 5 5 5 5 4 4 4 4 5 5 6 5 2 4 4 4 6 5 6 5 2 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | 37 00 52 00 36 00 44 50 51 50 43 50 38 00 37 00 36 00 37 00 36 00 37 00 36 00 37 00 |
| 96768 96774 103317 103316 103316 103318 96775 96779 96777 103314 96769 969125 96770 96962 96776 74326 77732 | Elizabeth Ann Florence. Flying Star. Laura. Laura. Lillie. Little Heir Louise. Majestic Marie Joseph Mary Mary Lambert. May Flower O L. B. Sunrise Virgin Willie B. Dreadnaught. Heather Bell. | do do do do do do do do do do do Halifax | 11 11 13 10 12 19 11 12 10 11 11 20 12 18 10 11 11 20 11 11 10 11 11 20 11 11 10 10 11 10 10 10 10 10 10 10 10 | Simeon Belfountain Paul Desveaux Mederick Aucoin Ubald Bourgeois Fidèle Chiasson Simeon Belfountain. Chas. Robin, Collas & Co. (Ltd.) John Roach Victor Roach Paul Aucoin Chas. Chiasson Hyacinthe Chiasson Didace Boudrot John J. McDonald Michael Ramard Emilien Roach COUNTY. Joseph N. Chute Joseph Parker | Eastern Harbour do Margaree Harbour do Eastern Harbour do do do do do Eastern Harbour do Eastern Harbour do Eastern Harbour do Seaside Eastern Harbour do Harbourville | 4 4 6 4 5 5 5 5 5 4 4 4 4 5 6 5 2 2 4 4 6 3 | 37 00 52 00 36 00 44 50 51 50 43 50 38 00 36 00 36 00 43 50 59 00 44 50 31 00 36 00 37 00 |
| 96768 96774 103317 103312 103315 103315 103318 96775 96777 96777 96777 103314 96769 69125 96773 96776 | Elizabeth Ann Florence. Flying Star. Laura. Laura. Lillie. Lillie. Little Heir Louise. Majestic Marie Joseph Mary Mary Lambert. May Flower O. L. B. Sunrise Virgin Willie B. | do do do do do do do do do do do Halifax | 11 11 13 10 12 19 11 12 10 11 12 10 11 11 20 11 11 10 11 11 10 11 11 10 11 11 11 11 | Simeon Belfountain Paul Desveaux Mederick Aucoin Ubald Bourgeois Fidèle Chiasson Simeon Belfountain. Chas. Robin, Collas & Co. (Ltd.) John Roach Victor Roach Paul Aucoin Hyacinthe Chiasson Hyacinthe Chiasson John J. McDonald Michael Ramard Emilien Roach COUNTY. | Eastern Harbour do Margaree Harbour do Eastern Harbour do Castern Harbour do Castern Harbour do Castern Harbour do Castern Harbour do Castern Harbour do Castern Harbour do Castern Harbour do Castern Harbour Harbourville Harbourville Harbourville Castern Harbour | 4 4 6 4 5 5 5 5 5 4 4 4 4 5 5 6 5 2 4 4 4 6 5 6 5 2 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | 37 00 52 00 36 00 44 50 51 50 43 50 38 00 37 00 38 00 43 50 59 00 44 50 31 00 37 00 |

^{*}Crew not entitled to bounty.

L sr of Vessels which received Fishing Bounty, &c. — Nova Scotia—Con.

LUNENBURG COUNTY.

| Official Number. | Name of Vessel. | Port of Registry. | Tonnage. | Name of Owner or Managing Owner. | Residence. | No. of Crew paid. | Amount of Bounty paid |
|--------------------|-----------------------|----------------------|------------|----------------------------------------|-----------------|----------------------|--------------------------|
| | | | | | | | \$ cts. |
| 91790 | Abana | Lunenburg | 80 | James Romkey | Lower La Have | 14 | 171 00 |
| 100839 | Acalia | do | 34 | Nathan Silver | Lunenburg | 5 | 66 50 |
| 94783 | Alaska Algoma | do do . | 80 56 | Hilbert Smith Jeffrey Publicover | Getson Cove. | 17 | 190 50 153 50 |
| 100489 100846 | Albatross | do | 26 | Abraham Ernst | Mahone Bay | 5 | 58 50 |
| 103507 | Annie | do | 16 | C U. Mader | | 3 | 35 5 0 |
| 100472 | Arcana | do | 80 | Alex. Knickle | Lunenburg | 17 | 190 50 |
| 94778 | Argosy | do | 80 | Charles Smith | do | 15 | 177 50 |
| 103495 | Athlon | do | 80 | Freeman Conrad | Upper La Have | 17 | 190 50 |
| 100:70 | Atlanta | do do | 80 80 | Freeman Anderson Albert V. Conrad | | 17 | 190 50 190 50 |
| 103745 103501 | Aris Barcelona | do do | 80 | William Smith | a Have | 17 | 190 50 |
| 103755 | Basil M. Gilbert | do | | John B Young | | | 203 50 |
| 94651 | Bessie A | do | | W. N. Reinhardt | | | 190 50 |
| 103430 | Beluga | do | | Albert V. Conrad | do | 15 | 177 5 0 |
| 103503 | B. G. Anderson | do | | Thomas Hamm | Lunenburg | 17 | 190 50 |
| 100838 | Blanche A. Colp | do | | C. U. Mader | Mahone Bay | 17 | 190 50 |
| 103421 | Blenheim | do | F0 | Charles Smith | do | 17 | 190 50 190 50 |
| 94782 | Bona Fides Bonanza | do | 80 | J. Joseph Rudolf Charles Silver | | 17 | 190 50 |
| 96828 100571 | Britannia | do | | Charles Smith | do | 17 | 190 50 |
| 100848 | Britannia | do | | Daniel Lohnes | Middle La Have. | 14 | 150 00 |
| 94645 | C. A. Chisholm | do | 80 | Abraham Ernst | Mahone Bay | | 80 00 |
| 94658 | C. A. Ernst | do | 57 | do | | 13 | 141 50 |
| 97084 | Calla Lily | do | 63 | Edmund Hirtle | Middle La Have. | 13 | 146 50 |
| 103427 | Cambrian | do | 80 | Dean Fralick Alvin Himmelman | Ritcey's Cove | 16 17 | 164 00 190 50 |
| 103502 100823 | Carlraine Carrie | do | 60 | Adnah Burns | | | 151 00 |
| 97081 | Ca rie | do | 80 | Elisha Wentzel | Rit ev's Cove | 18 | 197 00 |
| 107115 | Cayuga | do | 80 | Edmund Hirtle | Middle La Have. | 18 | 197 00 |
| 100579 | Citizen | do | 80 | M. MacGregor | Ritcey's Cove | 17 | 190 50 |
| 90869 | Clara E. Mason | do | 80 | David Smith | | | 177 50 190 50 |
| 103415 | Clarence Smith | do | 80 80 | J. Alex Silver | | 1 2 2 | 197 00 |
| 103759 100834 | Comrade | do | 80 | W. N. Reinhardt | La Have | | 190 50 |
| 103419 | Cordova | do | 80 | Charles Smith | Lunenburg | 15 | 177 50 |
| 103756 | Crescent | do | 80 | Joseph Rudolf | do | 1 17 | 190 50 |
| 100159 | C. U. Mader | do | 80 | C. U. Mader | Manone Bay | 17 | 190 50 |
| 100483 | Curfew | do | 49 | J. D. Sperry | Mahona Bay | 10 | 114 00 |
| 107112 88355 | Daisy Linden | do | 80 | Abraham Ernst C. U. Mader | | | 190 50 |
| 90834 | D. A. Mader Diego | | 27 | Harris Conrad | Vogler's Cove | 10 | 92 00 |
| 97089 | Dictator | Lunenburg | 80 | S. Watson Oxner | Lunenburg | | 190 50 |
| 100841 | Dora | do | 80 | William Acker | do | 17 | 190 50 |
| 103506 | Ebro | do | 75 | J. William Young | do | 15 | 172 50 |
| 103424 | Elva M | do | 80 | C. U. Mader | Mahone Bay | 17 | 190 50 |
| 100827 103492 | Elnora | do, | 52 10 | Henry Gerhardt Wesley H. Stevens | Tancook leland | . 10 | 117 00 23 00 |
| 83308 | Emily L | Liverpool | 10 | Jennis C. Hanson | | | 16 50 |
| 88356 | Energy | Lunenburg | 80 | C. U. Mader | Mahone Bay | 17 | 190.50 |
| 94659 | Enterprise | do | 80 | William Cleversy | Pleasantville | . 17 | 190 50 |
| 100151 | Erminie | do | 80 | Thomas Hamm | Lunenburg | 17 | 190 50 |
| 94960 | Eureka | | 80 | John S. Smith | Lower La Have. | . 17 | 190 50 |
| 103198 | F. B. Wade | | 80 | L. B. Currie | Widdle to Have | 17 | 190 50 |
| 103429 | Fern | | 70 80 | Edmen Walters C. U. Mader | Mahone Rav | 18 | 180 50 |
| 103743 100480 | Gallant | | 1 | Elias Richard, sr | Getson Cove. | 14 | 148 00 |
| | Galatea | | 1 00 | John B. Young | | | 190 50 |
| | ew not entitled to bo | | • | . • | | • | - |

List of Vessels which received Fishing Bounty, &c.—Nova Scotia—Con.

LUNENBURG COUNTY-Continued. Official Number Amount of Bounty paid Number of Crew paid. Name of Owner Tonnage. Port of Name of Vessel. Residence. or Registry. Managing Owner. cts. J. D. Sperry...... Petite Rivière..... * John M. Ritcey....... Ritcey's Cove.... 16 97083 Garland..... do 51 00 90582 G. A. Smith do 184 00 80 100411 Abraham Ernst...... Mahone Bay...... Genevieve..... do 17 190 50 James Bell..... Bell's Cove...... W. C. Smith..... Lunenburg...... 100825 do 34 99 00 ••••• 100576 do 210 00 Glady's B. Smith 80 19 103753 203 50 do 80 103505 Gladys May..... do 210 00 Glendale....... 38 38 00 97088 do W. C. Acker..... Lunenburg....... Artemus Zink. Ritcey's Cove..... 96836 80 17 190 50 Gleaner dο RO 103752 Glyndon..... do 19 203 50 80 100850 Daniel Getson Getson's Cove... 190 50 Grace do Grenada..... .. 80 S. Watson Oxner..... Lunenburg.. Alvin Creaser...... Ritcey's Cove..... 90862 dο 197 00 100488 56 12 134 00 Gurnet do 80 103744 J. Henry Wilson Lunenburg.. Hacry Smith dο 17 190 50 James Young. do Eli Ernst. Mahone Bay Joshua Ernst. Pleasantville. Lunenburg. 100569 Howard Young...... Irene M. B..... 80 18 197 00 do 100490 16 170 00 dο 12 107116 38 00 Ivy..... do J. A. Silver..... J. C. Schwartz 96830 do 80 17 190 50 Charles Hewett. 80 do 190 50 94785 do 17 John M. Ritcey....... Ritcey's Cove..... Martin Westhaver.... Lunenburg...... 103414 Jeanie Myrtle..... 80 190 50 do 17 103491 Jennie May..... 80 184 00 do S Watson Oxner..... do 17 J. H. Ernot J. M. Young..... 100164 80 190 50 oh 100837 80 William Young do 17 190 50 do William Found 14 Henry Ritcey. Rit ey's Cove. 18 Thos. A. Wilson Bridgewater. 18 Abraham Ernst. Mahone Bay. 15 S. Watson Oaner. Lunenburg. 17 197 00 94789 Joseph McGill do 80 Klondyke..... Laura C. Zwicker..... 107114 do 80 197 00 94788 80 177 50 oh 96838 La France..... do 80 190 50 96832 Laura M. Knock do 80 Allan R. Morash do 17 Abraham Ernst...... Mahone Bay 17 190.50 Lawrence..... 190 50 94780 dο 80 L. B. Currie... West Dublin 17 103202 L. B. Currie 190 50 do 80 Alex. Knickle...... Lunenburg..... 17 103418 190.50 Leader..... do 80 96833 190 50 L. E. Young..... dο 80 96827 Leopold 190 50 80 ďο 103760 197 00 80 Lillian..... do L. Morton 107113 60 144 50 do Lorena Maud...... 103496 190 50 80 do 100830 168 00 64 Lorraine C..... do Lottie Port Medway... 177 50 83316 80 Luetta Lunenburg do Maggie E. Z do do do do 103420 197 00 103509 70 180 50 97100 190 50 17 80 100162 Magic 110 00 do 103425 Majestic..... 80 190 50 do 94775 190 50 80 17 Malabar..... do 103413 Abraham Ernst...... Mahone Bay...... 13 Martello de 149 50 96840 May Flower..... 60 131 50 d٥ 100849 80 197 00 Merl M. Parks do 193426 158 50 Melbourne..... do 61 100574 Melrose..... do 71 168 50 74319 91 50 Merino 46 do 103510 M. J. Crosby...... Micmac 173 50 do 76 57728 66 50 do 34 90823 Miletus..... 177 50 ďο 100153 Mila.... 80 190 50 do 107111 203 50 Millie Mace..... 80 do 103757 Minnie J. Heckman. Minnie J. Smith..... 223 00 80 do William Smith...... Lunenburg....... 17 Theophilus Creaser... Ritcey's Cove..... 17 103416 190 50 80 do 190 50 97052 Minnie Maud..... Liverpool......

80

Crew not entitled to bounty.

LIST of Vessels which received Fishing Bounty, &c.—Nova Scotia—Con. LUNENBURG COUNTY—Conclud.

| Official Number | Name of Vessel. | Port of Registry. | Tonnage. | Name of Owner or Managing Owner. | Residence. | No. of Crew paid. | Amount of Bounty paid. |
|------------------------|---------------------------|----------------------|----------|-----------------------------------------|---------------|----------------------|---------------------------|
| | - | | | | | | \$ cts. |
| 103422 | Mischief | | 80 | Thos. A. Wilson | Bridgewater | 16 | 184 00 |
| $94772 \\ 92632$ | Molega Monarch | do | 80 80 | Benj. Anderson Allan R. Morash | | 18 16 | 197 00 |
| 103758 | Muriel | do | 80 | E. Fenwick Zwicker | | 19 | 184 00 203 00 |
| 94966 | Nicanor | do | 79 | Davis Westhaver | do | 16 | 183 00 |
| 100+85 | Nightingale | do | 52 | William Bailey | West Dublin | 10 | 117 00 |
| 9 2636 88342 | Nonpareil Nova Zembla | do | 80 79 | John Zink C. U. Mader | Mahona Bay | 17 | 190 50 189 50 |
| 94786 | Ontario | do | 80 | W. C. Smith | Lunenburg | 17 | 190 50 |
| 94779 | 0. P. Silver | do | 80 | Charles Silver | do | 17 | 190 50 |
| 94641 | Ovando | do | 80 | Jeffrey Publicover | Getson's Cove | 16 | 184 00 |
| | Panama | do | 80 53 | Henry Adams Abram Cook | | 17 | 190 50 150 50 |
| | Puma | do | 58 | Simon Pentz | | | 162 00 |
| | Puritan | do | 80 | Theophilus Creaser | | 17 | 190 50 |
| | Rapture | do | 57 | Alfred Corkum | Middle South | 15 | 154 50 |
| 96834 100572 | Robert F. Mason Rowena | do | 80 51 | Martin Mas n William Schmeisser. | Lunenburg | 17 | 190 50 148 50 |
| | Sadie | ao | 79 | G. N. C. Hawkins | Lunenburg | 16 | 183 00 |
| 94787 | Samoa | do | 80 | James W. Gerhardt | do | 17 | 190 50 |
| 100218 | Sarah M. W | Halifax | 14 | Hezekiah Wambolt | | 4 | 40 00 |
| 100471 | Senovar | do | 80 80 | Nathan Hiltz John B. Young | | 16 17 | 184 00 190 50 |
| 100165 | Snow Queen | do | 67 | Leander Meisner | | 15 | 164 50 |
| 107117 | St. Clair | do | 80 | Charles Smith | Lunenburg | 18 | 197 00 |
| 103500 | St. Helena | do | 80 | Howard Wynacht | | 17 | 190 50 |
| 100829 103754 | Stranger Talmouth | do | 11 80 | Garret Richard Freeman Messenger | Pleasantville | 3 20 | 30 50 210 00 |
| 92623 | Torridon | do | 80 | Isaac Heckman | Ritcev's Cove | 18 | 197 00 |
| 94657 | T. W. Langille | do | 71 | Francis Conrad | | 16 | 175 00 |
| 100575 | Tyler | do | 54 | W. A. Zwicker | | 16 | 158 00 |
| .103742 97098 | Unique Urania | do | 80 | Abram Ernst | Mahone Bay | 17 | 190 50 |
| 103417 | | do | 80 80 | David Heisler David Lohnes | Ritcey's Cove | 17 | 190 50 190 50 |
| 100821 | Venus | do | 76 | Jacob Hiltz | Indian Point | 15 | 173 50 |
| 103 504 | Viking | do | 80 | Amiel Corkum | | 17 | 190 50 |
| 94776 | Volunteer | do | 80 | M. MacGregor | | 17 | 190 50 |
| 61921 100152 | W. E. Weir Werra | Hallfax | 41 | Freeman Young | | 8 | 93 00 |
| 96×29 | Westeria | do | 80 80 | David Smith Freeman Anderson | | 17 | 190 50 190 50 |
| 100833 | Yucatan | do | 80 | J. Joseph Rudolf | | 17 | 190 50 |
| | | PIC | rou | COUNTY. | | | |
| 38510 | Lily | | 23 | George Rivers | Piaton | | 23 00 |
| | Dily | | | | 1 101011 | | 23 00 |
| | 1 | QUE | EN'S | S COUNTY. | | 1 1 | |
| 103205 | Aroostook | Liverpool | 67 | Andrew McNutt | Liverpool | 14 | 158 00 |
| 103174 | Iona | Shelburne | 15 | Eldred, Leslie | Port Mouton | 5 | 47 50 |
| 83134 | | Lunenburg | 15 | Johnson Rhynard | Brooklyn | 5 | 47 50 |
| 94833 | Jennie B Newsboy | do | 13 16 | William H. Vogler Alexander, Thankle | Port Monton | 4 | 39 00 42 00 |
| 61916 | Only Son | do | 16 | William A Conrad | Livernool | 4 | 42 00 |
| 103194 | Oressa | do | | Joseph Hogan | Hunt's Point | 4 | 36 00 |
| | | | | W7 W7: | T 2 | | 31 50 |
| 103199 83495 | TrilbyUtopia | do | | Wm Wigglesworth James C. Inness | Liverpool | 3 20 | 210 00 |

Crew not entitled to bounty

LIST of Vessels which received Fishing Bounty, &c.—Nova Scotia—Con. RICHMOND COUNTY.

| Official Number. | Name of Vessel. | Port of Registry. | Tonnage. | Name of ()wner. or Managing Owner. | Residence. | No. of Crew paid. | Amount of Bounty paid. |
|--------------------------------|---------------------------------|----------------------|-----------------|------------------------------------------|--------------------------------|-----------------------------------------|---------------------------|
| 36474 | Alexander Fraser | Lunanhurg | 32 | Anselm Thompson | Diver Roungeois | 9 | \$ cts. |
| 88456 | Alice May | Arichat | 39 | Wm I. Levesconte | do | 10 | 104 00 |
| 69143 | Arequippa | do | 36 | Philip, Gruchy | D'Escousse | 7 | 81 50 |
| 41771 94680 | Atalia | Halifax | 34 17 | Jesse M. Huntson Xavier Marchand | | 6 | 60 00 56 00 |
| 75561 | Boreas | Lunenbu.g | 41 | John Colford | Port Richmond | 8 | 93 00 |
| | British Lady | Halifax | 19 | Albert Joyce | RiverInhabitants | 4 | 45 00 |
| 38501 74100 | B. Weir & Co | | 25 23 | John Shannon Désiré Burke | East Basin | $\begin{vmatrix} 2\\7 \end{vmatrix}$ | 38 00 68 50 |
| 88459 | Caroline | | 12 | John B. Girroir | W. Arichat | 2 | 25 00 |
| 72061 | C. P. M | do | 22 | Alexander Burke | River Bourgeois | 6 | 61 00 |
| 72058 | Daisy Elerie | do | 34 | P. Richard | Arichat | 4 | 60 00 |
| 83395 83083 | Emma Proctor | P't Hawksh'ry | 29 41 | Lewis Murray Edward Proctor | Port Richmond | 5 9 | 61 50 99 50 |
| | Espérance | Guysboro | 10 | Joseph Petitpas | Arichat | 3 | 29 50 |
| 103454 | Ethel B | Arichat | 10 | Remi Boudrot | Petit de Grat | 3 | 29 50 |
| 88462 | Fannie S | do | :8 | Docithé Fougère | Rv Bourgeois | 9 | 86 50 |
| 88599 38468 | GuideHector | Arichat | 38 35 | Edward Poirier, George Walker | Basin | 12 4 | 116 00 61 00 |
| | Ida C. Spoffard | P't Hawksb'ry | 54 | Robert Murray | Port Richmond., | 6 | 93 00 |
| 85560 | Jacques | Yarmouth | 58 | Frederic Poirier | D'Escousse | 13 | 142 50 |
| 83135 | J. M. B John Vincin | Halifax | 20 | Sam. P. Burke | | 7 | 65 50 |
| 80972 88467 | Katie | Arichat | 17 11 | Simon Delorey Frank Sampson | Poulamond | 5 | 49 50 30 50 |
| 103458 | R. McKenzie | | 17 | James Barron | Lardoise | 6 | 56 00 |
| 38516 | Lady of the Lake | do | 26 | Peter Landry | St. Peters | 8 | 78 00 |
| 96763 88455 | Lilia Linwood Laura Victoria | do do | 67 39 | Wm I. Levisconte Henry McDonald | River Bourgeois | 15 11 | 164 50 110 50 |
| 72071 | Lumen Diei | | | Urbain Sampson | River Bourgeois | 6 | 59 00 |
| 88463 | Maria | do | 14 | Andrew Boudrot | Petit de 'Arat | 4 | 40 00 |
| 85388 | Mary Alice | Halifax | 21 | Edward Malcom | | 5 | 53 5 0 |
| 38522 100380 | Mary | Arichat | $\frac{23}{27}$ | Isaïe Boudreau Leon Sampson | River Bourgeois | 7 8 | 68 50 79 00 |
| 72048 | Mary D Neptune | Arichat | 26 | Henry Sampson | River Bourgeois | 7 | 71 50 |
| 74365 | Nova Stella | do | 53 | Léon Poirier | D'Escousse | 15 | 150 50 |
| 54139 | Ocean Belle | | 20 | Isidore Fougère | Poulamond | 9 | 78 50 |
| 61630 38462 | Olive J Partners | do | 57 25 | John Malcom Thomas Sampson | River Rourgeois | $\begin{vmatrix} 10 \\ 2 \end{vmatrix}$ | 122 00 38 00 |
| 72067 | Philomène D | l do | $\frac{23}{22}$ | John Pelham | Janovin Island | 4 | 48 00 |
| 46485 | Quicksteps Ripple Ripple | P't Hawksb'ry | 52 | John Murray, jr | Port Richmond | 4 | 78 00 |
| 884 39 640 33 | Ripple | Halifax | 20 | Isidore Boudrot | Petit de Grat Port Richmond | 2 | 33 00 |
| 925 99 | Thistle | Sydney | 34 11 | Geo. Cruickshank Robt. Monbourquette | L'Ardoise West | 4 | 60 00 3 7 00 |
| 71034 | Vanguard | Arichat | 51 | Dominique Boudrot | Petit de Grat | 5 | 83 50 |
| 57662 | Village Bride | Halifax | 24 | Peter Malcolm | Port Malcolm | 6 | 63 00 |
| 38523 | Victoria | Arcihat | 24 | Henry Burke | St. Peter's | 7 | 69 50 |
| | | SHELI | BUR | NE COUNTY. | • | | |
| 94632 97034 | A. C. Greenwood A. D'E | | 15 15 | Hugh M. Perry David H. Blades | Black Point Upper Wood's | 5 | 47 50 |
| 000== | | | | i | Harbour | 3 | 34 50 |
| 90655 100620 | Annina | | 12 | George Pike | | 5 | 44 5 0 216 50 |
| 100617 | Alina, | | 80 28 | Churchill Locke Austin Swansburg | | 21 7 | 73 50 |
| 100612 | Ardella | do | 10 | Eleazer Crowe | Sandy Point | 2 | 23 00 |

List of Vessels which received Fishing Bounty, &c.—Nova Scotia—Con.

SHELBURNE COUNTY-Concluded.

| Official Number | Name of Vessel. | Port of Registry. | Tonnage. | Name of Owner or Managing Owner. | Residence. | No. of Crew paid. | Amount of Bounty paid. |
|---------------------------|-------------------------------|-----------------------|-------------------------------------------|------------------------------------------------------|-----------------------------------------|-----------------------------------------|------------------------------------------------------|
| | | | | | | | Ø ota |
| 100813 88551 103186 | Blanche | | 24 80 11 | Jethro C. Swim John M. Thorbourn . Ross Enslow | Jordan Bay | 9 20 | \$ cts. 82 50 210 00 |
| 06070 | Charlie Richardson | do | 26 | Inha D. Handina | bour | 5 | 43 50 |
| 96970 100605 | Dawn | do Barrington | 49 | John B. Harding A. N. Smith | Rockland | $\begin{vmatrix} 8 \\ 13 \end{vmatrix}$ | 78 00 133 50 |
| 83492 | Dessie | Liverpool | 11 | E. A. Capstick | | 4 | 37 00 |
| 96976 | Edith | | 40 | Enos Charchill | do | 10 | 105 00 |
| 77603 103789 | Eldon C ffie B. Nickerson | | 27 22 | Josiah S. Thomas Amasa Nickerson | Cape Negro Central Wood's Hartour | 8 | 79 00 67 50 |
| 85731 | Eva L. H | do | 62 | Bradf'd P. Thorburn | | 15 | 159 50 |
| 83255 | Floyd | Annapolis | 20 | Eldridge Nickerson | Shag Harbour | 6 | 59 0 0 |
| 90645 | FlyGarnet | | $\begin{array}{c c} 16 \\ 27 \end{array}$ | Charles M. Wickens | Lower Shag Har. | 6 | 55 00 |
| 100815 | Happy Home | do Barrington | 10 | Thomas W. Crowell Wm. E. Smith | Up. Port La Tour | 6 4 | 66 00 36 00 |
| 80799 | Hattie E | Digby | 16 | Isaac A. Nickerson Charles A. Reynolds | Shag Harbour | 5 | 48 50 |
| 90647 | Hattie Emeline | | 11 | Charles A. Reynolds | Up. Port La Tour | | 37 00 |
| 100607 88554 | Icelda Jersey Lily | | 19 80 | Arthur Hardy Enos Churchill | Rockland | $\begin{vmatrix} 6 \\ 20 \end{vmatrix}$ | 58 00 210 00 |
| 107052 | J. J. Clark | Barrington | 67 | Prince W. Stoddard | | 20 | 210 00 |
| | | _ | | ł | Harbour | 15 | 164 50 |
| 85566 | J. Lyons | do | 17 | David Slate | Cape Negro | 7 | 62 50 |
| $\frac{54132}{61572}$ | John Franklin John Halifax | Shelburne | 18 63 | Leander McKenzie John M. Harding | Rast Jordan | 3 8 | 37 50 115 00 |
| 94941 | John Purney | do | | George H. King | Sandy Point | 22 | 223 00 |
| 73967 | John Purney Katie | Liverpool | 14 | Churchill Locke | Lockeport | . 5 | 46 50 |
| 90438 80624 | Lark Lima | Varmouth | 13 12 | John C. Ross | Up. Port La Tour | 5 | 45 50 |
| 94661 | L. C. Tough | | 12 | John C. Ross | Black Point | 6 4 | 51 00 38 00 |
| 103173 | Mabel | Shelburne | 21 | John Matthews | Rockland | 7 | 66 50 |
| 103712 | Marguerite | 1 | 10 | Jared Brannen | Harbour | 5 | 42 50 |
| 83493 103057 | Mary C | Liverpool | $\frac{80}{12}$ | Wm. McMillan | Lockeport | 20 | 210 00 |
| 103034 | May Flower May Flower | Shelburne | 26 | Harry Greenwood Mark A. Vernon | Sandy Point | 4 7 | 38 00 71 50 |
| 103177 | May Flower | do | 12 | Adam B. Hamilton | Carleton Village | $\frac{1}{2}$ | 25 00 |
| 100614 | May Flower | do | 11 | Adam B. Hamilton Benjamin Hardy | Allendale | 3 | 30 50 |
| 83434 92568 | Mary May Mary Kate | do | 20 13 | Adam J. Firth Charles G. Acker | Church Over | 7 5 | 65 50 45 50 |
| 90439 | Oscar F | | 18 | William D. Pennev | South Side | 9 | 76 50 |
| 103782 | Oasis | do | 80 | John A. McGowan | Shelburne | 24 | 236 00 |
| 1037≻8 75595 | Ripple | do | 80 19 | George A. Cox Vincent Brannen | do | 24 | 236 00 |
| 100319 | Rob Roy | do | 12 | James E. Nickerson | do | 3 | 45 00 31 50 |
| 53551 | Roving Bird | Halifax | 24 | King Perry | North East Har | 7 | 69 50 |
| 100616 | Sea Slipper | Shelburne | 11 | James Enslow, ir | West Green Har. | 4 | 37 00 |
| 77956 103783 | Speed Springwood | Shelburne | 13 80 | Robert Nickerson | Up. Wood s Har. | 3 | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ |
| 90433 | St. Ann | Barrington | 11 | William McMillan Chas. H. Dickson | Wood's Harbour | 4 | 37 00 |
| 90648 | Stranger | do | 15 | Ira P. Brown | Stoney Island | 4 | 41 00 |
| 96961 103179 | Tivoli | | $\frac{24}{31}$ | Wm. J. Doane | Red Head | 6 | 63 00 |
| 100608 | Vesper | | 14 | Wm. McMillan Churchill Locke | | 8 5 | 83 00 46 50 |
| 77744 | Whip-poor-will | do | 17 | J. P. Littlewood | Ingomar | 5 | 49 50 |
| 90430 | Will Carleton | Barrington | 80 | Joseph A. Smith | Port La Tour | 17 | 190 50 |
| 103183 75722 | Wren Yuba | Shelburne Yarmouth | 18 | William McCarthey. Charles E. Crowell | Port La Tour | 6 | 57 00 54 00 |
| | | - a. mouti | | Daniel L. Olowell. | JI Da Tout | " | 01 00 |
| | | | | | | | |

List of Vessels which received Fishing Bounty, &c.—Nova Scotia—Continued. VICTORIA COUNTY.

| | | | | A COUNTY. | | | |
|------------------|-------------------------|----------------------|----------|--------------------------------------------|------------------------------|----------------------|-------------------------|
| Official Number. | Name of Vessl. | Port of Registry. | Tonnage. | Name of Owner or Managing Owner. | Residence. | No. of Crew paid. | Amount of Bounty paid. |
| | | | | | | | \$ cts. |
| 100383 74039 | Florence L | | 10 18 | William Young John Dunphy | Sugar Soaf South Ingonish | 2 5 | 23 00 50 50 |
| 100840 | Maritime | Lunenburg | 59 | R. E. Burke | Ingonish | 9 | 117 50 |
| 97042 | Sea Bird | Halifax | 17 | Peter McDonald | McKinnon's Harbour | 3 | 36 50 |
| 107351 | Wilfrid Laurier | Sydney | 10 | Daniel McLeod | South Ingonish | 3 | 29 50 |
| | | YARM | OUI | H COUNTY. | | | |
| 90045 | W D U | W | | T 1 4 | r n n | 1 [| |
| 80647 94980 | Annie M. Bell Aurore | | 64 80 | Leander Amiro Leon D'Eon | West Publico | 16 18 | 168 00 197 00 |
| 88267 | Bessie May | St. John | 23 | Nathaniel Pierce | Charlesville | 9 | 81 50 |
| 103051 | Carrie May | Yarmouth | 25 | James Gardner | Argyle Sound | 8 | 77 00 |
| 85536 | Circussian | do | 80 | A. F. Stoneman & Co Charles D'Entremont | Yarmouth | 18 | 197 00 |
| 100010 | Civilian | do | 80 | Charles D'Entremont | West Pubnico | | 210 00 |
| 88403 | David Sprague | Varmouth | 31 | James Lennox W. A. Killam | Vermouth | 10 | 92 00 |
| 103053 | Ed-lie C | do | 10 | James F. Harding | L. E. Pubnico | 3 | 31 00 29 50 |
| 103066 | Eddie J | do | 23 | Anthony M. D'Entre- | 1 | | 20 00 |
| | 1 | | | mont. | West Pubnico | 8 | 75 00 |
| 85683 | Edith L | Digby | 16 | W. A. Killam | Yarmouth | • | 16 0 0 |
| 95050 | Ethel | | 80 | J. H. Porter & Co | | 16 | 184 00 |
| 100535 | EvaFairplay | do | 10 11 | Addison Morton Josiah B. Lewis | Yarmouth | 2 2 | 23 00 |
| 90654 | Flora | do | 64 | David D Entremont | | 20 | 24 00 194 00 |
| 94972 | Florence | do | 11 | J sué Boudreau | Tusket Wedge | 5 | 43 50 |
| 90885 | Georgiana | do | 80 | Henry Lewis James Amiro | Yarmouth | 22 | 223 00 |
| 80643 | Hazel Dell | do | 80 | | West Pubnico | | 177 50 |
| 100327 | Hattie Helena | do | 10 | Robert Ellenwood. | Yarmouth | 3 | 29 50 |
| 103717 | Henry L | do | 14 10 | William McNair Archangel D'Entre- | | 2 | 27 00 |
| | Tienty II | uo | 10 | mont | West Pubnico | 2 | 23 00 |
| 88587 | Jessie May | do | 14 | Alexander Hemlow | Yarmouth | 4 | 40 00 |
| 103059 | La 'v Bourgne | do | 11 | Ans Ime Bourque | Bourque's Cove | 2 | 24 00 |
| 103709 | Little Joe | do | 18 | Thomas A. Crosby | Yarmouth | 3 | 37 50 |
| 80614 | Lizzie E Louise | do | 14 80 | E. Juston Ellis J. H. Po ter & Co | Tusket Wedge | 18 | 46 50 |
| 103718 | Lucy | do | 10 | Amb. D'Entremont | West Pubnico | 4 | 197 00 36 0 0 |
| 80632 | Lumen | do | 30 | J. H. Po ter & Co | Tusket Wedge | 9 | 88 50 |
| 88596 | M. A. Louis | do | 64 | A. F. Stoneman & Co | Yarmouth | 19 | 187 50 |
| 88583 90659 | Mary O'Dell | do | 14 | Levi Robicheau | do | 2 | 27 00 |
| 103705 | N. A. Laura Nebula | do | 59 24 | Remi D'Entremont | | 16 | 16: 00 |
| 90892 | Nellie | do | 59 | Ferdinand An iro J. H. Porter & Co | Tusket Wedge | 10 | 89 00 163 00 |
| 90873 | Primrose | do | 34 | Henry T. D'Entre- | L. E. Pubnico | 9 | 92 50 |
| 103706 | Regine | do | 10 | Wm. D'Entremont | West Pubnico | 3 | 29 50 |
| 88589 | camora | do | 20 | W. A. Killam | Yarmouth | | 20 00 |
| 83254 75724 | Sea Foam | Annapolis | 28 | Joseph L'Amiro | L. E. Pubnico | 6 | 67 00 |
| 100323 | Sea FoamSenora. | | 75 80 | J. H'Porter & Co Marc A Surette | West Pubnica | 18 | 192 00 |
| 100313 | Souvenir | do | 71 | Sylvain D' Entremont | 3. | 21 20 | 216 50 201 00 |
| 103716 | Valkyrie | | ii | Peter Amiro | do | 5 | 43 50 |
| 100×11 | Vesta Pearl | do | 40 | W. A. Killam | Yarmouth | 6 | 79 00 |
| 90896 103704 | Wapiti | do | 80 | A. F. Stoneman & Co | do | 18 | 197 00 |
| 85541 | Whisper | do | 31 | Peter Amiro | | | 83 00 |
| 85559 | Willie M Willie F | do | 24 12 | Sylvain Amiro | | 6 | 63 00 44 50 |
| 90882 | Will O' the Wisp | do | 51 | Riley W. Haskell A. F. Stoneman & Co | | | 174 50 |
| 90897 | Wrasse. | do | | do | do | | 179 50 |
| | rew not entitled to be | | | | | · · · · | |

[·] Crew not entitled to bounty.

List of Vessels which received Fishing Bounty, &c.—New Brunswick—Con.

PROVINCE OF NEW BRUNSWICK.

CHARLOTTE COUNTY

| Official Number | Name of Vessel. | Port of Registry. | Tonnage. | Name of Owner or Managing Owner. | Residence. | No. of Crew paid. | Amount of Bounty paid. |
|------------------|---------------------------|----------------------|----------|----------------------------------------|-----------------|----------------------|---------------------------|
| | | | | | | | \$ cts |
| 103124 103995 | Addie B | St. Andrews do | 12 16 | Arthur Ramsdell Joseph Hatt | Woodward's | 4 | 38 00 |
| 94727 | Aurelia | St John | 22 | James Scoville | Cove | 3 5 | 35 50 44 50 |
| 103996 | Au revoir | St. Andrews | 15 | Frederick Russell | | 3 | 34 50 |
| 103127 | Avis C. Tobey | do | 13 | Hamilton Bancroft | | | |
| 64011 | Bee | do | 18 | Sherman Lawson | Cove | 5 5 | 45 50 50 50 |
| 100111 | Bess | Parrsboro | 24 | Francis Cassidy, sen. | Lepresux | 3 | 43 50 |
| 103128 | Britannia | St. Andrews | 22 | Charles Sinclair | Castalia | 4 | 48 00 |
| 88409 | Carrie | Digby | 12 | Thomas A. Cook | Le Tête | 3 | 31 50 |
| 103118 | Della F. Tarr | St. Andrews | 34 | Chas H. Greenwood. | Wilson's Beach | 3 | 53 50 |
| 92505 | Edith B | | 47 | Winslaw Richardson. | Leonardville | 5 | 79 50 |
| 103114 | Edward Morse | do | 32 | Alexander Calder, jr. | Welchpool | 5 | 64 50 |
| 80803 | | Windsor, N.S. | 18 | Wm. F. Parker | Beaver Harbour. | 5 | 50 50 |
| 80882 83202 | Ella Mabel Enchantress | do | 14 10 | Walter Calder, jr Peter Dixon | Florg's Cove | 4 | 40 00 16 50 |
| | Falcon | | 12 | John F. Cronk | do | 5 | 44 50 |
| 75601 | Flash | Digby | 10 | Albert E. Coggins | Westport N S | 3 | 29 50 |
| 92511 | Fleetwing | St. Andrews | 11 | Aldin McFarland | Flagg's Cove | 3 | 30 50 |
| 97146 | Free Trade | do | 10 | Lorenzo C. Watt | do | 3 | 29 5 |
| 94834 | Flora Woster | do | 22 | Andrew McGee | Back Bay | 4 | 48 0 |
| 97150 | Gleaner | do . | 13 | Frank Newman | | 3 | 32 5 |
| 9250 | Grey Eagle | , do | 13 | Bismark Dick | Back Bay | 5 | 45 5 |
| 83463 | Havelock | do | 33 | William James | Wilson's Beach | 4 | 59 00 |
| 94839 | Harrie Hortense | | 14 15 | Wm. J. Tucker W. J. Morse | White Wood | 3 5 | 33 50 47 50 |
| 103119 103121 | Island Girl | do | 17 | Frank Ingersoll & Son | | 4 | 43 0 |
| 80604 | Jennie C. | Yarmouth | 16 | Daniel Thompson | Black's Harbour | 3 | 35 5 |
| 103997 | Jessie James | St. Andrews | îi | Daniel Thompson Lewis Frankland | Whitehead | 3 | 30 5 |
| 51965 | John E. Dennis | l do l | 18 | Alfred Stanley | North Head | 3 | 37 5 |
| 77736 | Laconic | Shelburne | 15 | John Dixon, sr | Flagg's Cove | 3 | 34 5 |
| 88273 | Lillian E | St. Andrews | 13 | Andrew McGee James Scovil | Back Bay | 3 | 32 5 |
| 88407 | Linnet | do " | 15 | James Scovil | Flagg's Cove | 4 | 41 0 |
| 59342 | Lizzie S. McGee | do | 14 | Andrew McGee | Back Bay | 5 | 46 5 |
| 83426 | Louisa | St. John | 16 10 | Bristol Hargrove | | | 48 5 |
| 103117 | Margaret | do | 49 | John Thomas Bernard Eldridge | | | 29 50 107 50 |
| 85442 | Margaret | do | 14 | Charles Dixon | North Head | 4 | 40 0 |
| 94837 | Mystery | do | ii | Thomas Richardson | | 3 | 30 5 |
| 95518 | Peril | | 18 | George Dixon | Beaver Harbour | 5 | 50 5 |
| 75591 | Rise and Go | do | 16 | Wm. Sirles | Wilson's Beach | 6 | 55 0 |
| 75864 | Roving Lizzie | Weymouth | 11 | Benjamin Carter | | | 24 0 |
| 88272 | Simeon H. Bell | St. Andrews | 14 | Charles Dixon | North Head | 3 | 33 5 |
| 59387 | Telephone | do | 19 | James Brown, jr | Wilson's Beach | 5 | 51 5 |
| 88414 | TrumpetTry Again | St. John | 20 | George U. Wright | Beaver Harbour | 4 | 46 0 |
| 103998 | 1 ry Again | ot. Andrews | 15 | A. W. Ingersoll | | | 24 5 |
| 103129 | Uncle Sam | do | 11 | John G. Fraser | do | 3 4 | 34 50 37 0 |
| 94832 | Venus | do | 42 | Simon Brown | Wilson's Reach | 6 | 81 0 |
| 103125 | Virgin Queen | | 16 | Nelson Morse | Whitehead Isl'd | 4 | 42 0 |
| 77969 | Wave Queen | | ii | Hiram Foster | | | 30 5 |

SESSIONAL PAPER No. 11a

List of Vessels which received Fishing Bounty, &c.—New Brunswick—Continued.

GLOUCESTER COUNTY.

| Name of Vessel. Port of Registry. Section Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry. Post of Registry | | | | | <u> </u> | • | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-----------------|---------------|-------|----------|------------------------------------------|-----------------|----------------------|---------------------------|
| | Official Number. | Name of Vessel. | | | Tonnage. | or | Residence. | No. of Crew Paid. | Amount of Bounty Paid. |
| 100924 Alice | | | | | | | | | \$ cts. |
| A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A company A co | | | Chatham do | | | Clement Lanteigne Chas. Robin, Collas | Lameque | 4 | 38 00 |
| 1934 200 33 36 36 36 36 36 36 | _ | | | | 10 | & Co | Caraquet | i I | |
| 19873 Angeline | | | | - 1 | | Dosithé Chiasson | I do | | |
| 100987 | | | | | | Joseph C. Doiron | Caraquet | | |
| 100967 | | Auglesea | | | | Hya H. LeBouthillier | do | | |
| 103009 | | Arabi | do | | | Philip Rive | do | 3 | |
| 103009 | 103085 | | do | | 12 | Chas Robin, Collas | | | |
| 103081 Albatross do 12 Lange Paulin jr. Lameque 3 150 | | | _ | | | & Co | do | | 31 50 |
| 100960 Annie M | | | 1 - | - 1 | | Richard Young | Shippegan | | |
| 109666 | 3 | | | | | Thomas Alian | Lameque | | |
| 103786 Britannia do | | | | 1 | | W S Loggie & Co | Chatham | | |
| 103780 Britannia. | | | | | | Thomas Ahier | Shipp, gan | | |
| 100987 | | | | i | | Wm. Fruing & Co | Caraquet | | |
| 100983 Bee. | | | | | | C. Hubbard | do | | |
| Dougst Big Bear | 100983 | | | | | | | 1 7 | 00 00 |
| 100299 Blanchard | | | | | | & Co | do | 4 | 37 00 |
| 100909 Blue Nose | | Big Bear | do | | 10 | Robert Young | do | 3 | 29 50 |
| 100909 Blue Nose | 100299 | Blanchard | do | ••••• | 11 | | | | |
| 103589 Blenheim | 10000 | | 1 - | | | | | | |
| T2079 | | | 1 - | | | | ao | 3 | 30 50 |
| 103072 Betsy | 103589 | Blenheim | do • | ••••• | 13 | | do | 4 | 20.00 |
| 103072 Ben Hur. | 72070 | Pater | do | | 19 | | | | |
| Second Calippe Calippe Caraquet Second Caraquet Second Caraquet Second Second Caraquet Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second | 103072 | | 1 - | | | | | | |
| 100988 Caesar | | | | | | | | | |
| 100774 | 100988 | Caesar | | | | | | 5 | |
| 103585 | 100774 | Calliope | | | | | | | 31 50 |
| 100784 Charlotte | 103585 | Cedric | do | ••••• | 14 | 1 - | | | |
| 100789 Chazalic do | | | | ••••• | | | | | |
| 100916 Cygnet | 100784 | | | | | | | | |
| 100916 Cygnet | 100789 | | 1 - | | | Chas Pahin Calles | | 3 | 30 50 |
| 100916 Cygnet | 00130 | Christina | αo | ••••• | 11 | t Co | do | 4 | 37 00 |
| 100971 Cyprian | 100916 | Cyanet | do | | 12 | | | | |
| 101000 Condor | 100971 | | | | | Elie Sivret | do | | |
| 103083 Corsair | 101000 | | | | 10 | Thomas Ahier | Shippegan | 5 | |
| 100915 Dawn | 1030×3 | | | | | do | do | 4 | 36 00 |
| 100917 | 100915 | Dawn | do | | 12 | Chas. Robin, Collar | Q | | |
| 100913 Daffodil | 10001= | D. | | | ٠,. | | Caraquet | | |
| 92412 Dollie Dutton | | Doffa | | | | Thomas Abian | Shinnegen | | |
| 103076 | | | | | | | qu ombhekan | | |
| 10099 Dove | 103076 | | | | | W. S. Loggie & Co | Chatham | | |
| 103590 Eliza | 100949 | | | | | Thomas Ahier | Shippegan | 4 | |
| 100293 Eliza | 103590 | | | | | Chas. Robin, Collas | | | |
| 96737 Elmina | 100000 | | | | | | | | |
| 100986 Empress | 100363 | | | | | Robert Young | | | |
| 103776 | 100000 | | | | | Dobort Varra | Сатаспе | | |
| 100772 Estelle | 103776 | | | | | robert roung | | | |
| 100787 Ethel | | | | | | | | | |
| 100905 Evangeline | 100787 | | | | | | | _ 1 | |
| 100998 Eagle | 100905 | | | | | Philip Rive | do | 4 | |
| 100911 Emperor do 10 do do 4 36 00 100298 Figher do 12 Joseph H Chiasson, Little Lemeque, 4 38 00 | 100998 | Eagle | do | | | Thomas Ahier | Shippegan | | 36 OU |
| 400298 Figher do 12 Loseph H. Chiasson. Little Lemeque. 4 38 00 | 100911 | Emperor | do | | 10 | do | _do | 4 | |
| do 10 W. S. Loggie & Co., Chatham | 105055 | Figher | l do | | 12 | Joseph H. Chiasson | Little Lemeque. | 4 | |
| | 403077 | rame | l do | ••••• | 10 | W. S. Loggie & Co | Unatham | 4 | 36 00 |

63 VICTORIA, A. 1900

List of Vessels which received Fishing Bounty, &c.—New Brunswick—Con.

GLOUCESTER COUNTY-Continued.

| 103779 | | | | | | | | |
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| September Chatham 13 | H | | | | | 1 |) [| |
| September Chatham 13 | ą | | | | | | 1 | id |
| Section | 8 | | | | | | ₿ | _ <u>@</u> |
| Section | ź | | Port of | - 1 | Name of Owner | | F. | ~ ~ |
| Section | | Name of Vessel. | | 50 | | Residence. | C . | art. |
| Section | . 8 | | itegistry | . 8 | Managing Owner. | | e i | ž ž |
| Section | gc | | | = | | | _ E | ĕĕ |
| September Chatham 13 | g. | | | ĬĔ | | | Z | Æ |
| State | | \ <u></u> | | | | | | |
| State | | | | | | | | S cts |
| 100977 Fly | | | (a) () | 1.0 | 1001 | j | 1 .! | - |
| 100977 Fly | | Flavie | Chatnam | 13 | Incophile Duguay | Lameque | 4 | |
| A c C C C C C C C C C | | | | | | | 3 | 33 50 |
| Same | 100977 | Fly | do | 12 | Chas. Robin, Collas | | | |
| Sayson Fannie R. C. Halifax 21 In Tracadie 4 47 70 100782 Flying Foam Chatham 12 Robert Young Caraquet 3 31 50 100903 Falcon do 10 do do do 4 36 00 4 36 00 00 4 36 00 00 4 36 00 00 4 36 00 00 4 36 00 00 4 36 00 00 4 36 00 00 4 36 00 00 3 29 50 00093 Garfield do 10 Flilip Rive do 3 29 50 00093 Garfield do 10 Chabs Robin, Collas & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & Co. & | | | | ١,, | & Co | Caraquet | 3 | 31 50 |
| 83399 Fannie R. C. Halifax 21 Benj. Windsor Misceut Harbour 4 47 00 100782 Flying Foam Chatham 12 Rolert Voung Caraquet 3 31 50 100912 Foam do 10 do do do do do do do d | 61405 | F1y | ao | 11 | | | | 07 00 |
| 100912 Flying Foam | | | TT . 1:0 | 0.1 | D Wind. | Tracaule | 4 | |
| 100912 Foam | | | | | | | | |
| | | | | | | | i i | |
| 100798 Gambetta | | | | 1 | | | 1 | |
| 100993 Gar£ele | | | | | | | | |
| 100919 Gazelle | | | | | | | | |
| 100919 Gazelle | | | | | | | | |
| 100968 Gem | | | | | | | 3 | 29 50 |
| 100968 Gem | 100919 | Gazelle | ao | 12 | | | 2 | 91 20 |
| Mary Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Colare Col | 100000 | 0 | de | 11 | | | 3 | 91 90 |
| 103282 Gilknockie | 100968 | Gem | αο | | | | , ,] | 27 00 |
| 1009 4 Gladstone | * odoos | Giller Lie | a. | ,, | | | | |
| 100910 Gleaner | | | | | | | | |
| 100992 Great Mogul. | | | _ | 1 | | | | |
| 92418 Grip | | | | | | | | |
| 100790 Guiding Star | | | | | Imp Rive | Translin | | |
| 96733 Gem | | | | | | | 1 | |
| 10366 Gipsey | | | | | Dichard Vanna | Caraquet | 1 1 | |
| 103766 Genesta do | | | | | W S Longie b Co | Chathern | | |
| 100989 Gladiator do | | | | | Thomas Abion | Chinnegen | | |
| | | | | | Dhilip I was | Little Chinnegen | | |
| Chas. Robin, Collas do 3 32 50 | | | | | Philip Dire | Caragnet | 3 | |
| Note | | Hercules | New Carlie | | | | 4 | 30 00 |
| 100903 Hope Chatham 12 R. Young do 3 31 50 | 01420 | поре | New Callis | ne 19 | | | 3 | 32.50 |
| 103939 H-pe | 100003 | Hone | Chatham | . 12 | | | | |
| 100906 | | | | | | | | |
| 100956 | | | | | Philip Rive | Caraquet | | |
| 103765 Hirondelie | | | | | W. S. Loggie & Co | Chatham | | |
| 103931 | | | | | Thomas Ahier | Shippegan | | |
| 100997 | | | | 1 | Wm. Fruing & Co | Caraquet | | |
| 103779 | | | | | The may Ahier | Shippegan | | 29 50 |
| 96724 Isabel | | | | | | | | 37 00 |
| 103281 Japan do | | | | | do | do | 5 | 43 50 |
| 10965 Josephine | | | _ | | R. Young | Caraquet | 3 | 30 50 |
| 103289 Jersey Lily | | Josephine | | | Philip Rive | do | | 30 50 |
| 103289 Jersey Lily | | | | | W. S. Loggie & Co | Chatham | | 43 50 |
| 100981 Kite | | | | 1 | Thomas Ahier | Shippegan | | 31 50 |
| 103283 Koh-i noor | | | | 1 | | | | _ |
| 103283 Koh-i noor | | | | | & Co | Caraquet | 3 | 30 50 |
| No. | 103283 | Koh-i noor | do | 13 | Philip Rive | dō | | 45 50 |
| 103089 | | | | | Thomas Ahier | Shippegan | 3 | 29 50 |
| 100951 Leo | 103089 | | | | Philip Rive | Caraquet | 4 | 37 0 0 |
| 103280 | | | | 13 | Hyacinthe Lanteigne | do | 4 | 39 00 |
| 100972 | 103280 | Lily | do | 11 | | | 1 | |
| 103003 Lark | | | | | & Co | do | | 37 00 |
| 92403 Marie | | | do | | Robert Young | do | | 30 50 |
| 72100 Marie Marie do 11 Onésime Chiasson Lameque 4 37 00 | | | do | | | | | 29 50 |
| 72100 Maric | 92403 | | do | | Ubalde Landry | Grand Anse | | 45 50 |
| 100292 Marie Joseph do 12 Lazare Gauvin Lameque 4 38 00 100781 Mary Louise do 11 C. Hubbard Caraquet 3 30 50 100295 Marie Louise do 18 Joseph A Poulin do 4 44 00 | | | | 1 | | | | 37 00 |
| 100781 Mary Louise do 11 C. Hubbard Caraquet 3 30 50 100295 Marie Louise do 18 Joseph A Poulin do 4 44 00 | | | | | | | 1 1 | 39 00 |
| 100781 Mary Louise do 11 C. Hubbard Caraquet 3 30 50 100295 Marie Louise do 18 Joseph A Poulin do 4 44 00 | | Marie Joseph | | | | | | 38 00 |
| | | | | | U. Hubbard | Caraquet | 1 | |
| 61447 Merida do 13 Andrew D. Ache Lameque 4 39 00 | | | | | | | 1 1 | |
| | 61447 | Merida | do | 13 | Andrew D. Ache | Lameque | 4 | 39 0 0 |

${\bf List~of~Vessels~which~received~Fishing~Bounty,~\&c.--New~Brunswick} - Continued.$

GLOUCESTER COUNTY—Continued.

| per. | | | · · · · · · · · · · · · · · · · · · · | | | | 1 ! | ਾ ਹਨ। ਦੁ |
|------------------|----------------------|----------|-----------------------------------------|-----------------|-------------------------------------|-----------------|-----------------|---------------------------|
| Official Number | | | | | Name of Owner | | Crew | Amount of Bounty paid. |
| Z | Name of Vessel. | Por | | æ. | or | Residence. | Cr | t to |
| <u>=</u> | | Regis | stry. | Tonnage. | Managing Owner. | | No. of paid. | n c |
| ű | | | | on | | | . g | ğĕ |
| | | | | <u> </u> | l | | Z | <u> </u> |
| | i . | | | | | | | \$ cts. |
| 100000 | Mermaid | Chathar | · | 11 | C Hubbard | Caracust | | - |
| 100779 103088 | Max | do | | 11 10 | C. Hubbard Maxime Cormier | | | 30 50 42 50 |
| 100955 | Majestic | do | | 10 | C. Hubbard | | - 1 | 29 50 |
| 103084 | Mary Emma | do | • • • • • • • | 11 | Onésime Paulin | | 3 | 30 50 |
| 103768 | May Flower | фe | | 13 | Chas. Robin, Collas | | 3 | 20 50 |
| 100785 | Midnight | do | | 12 | R. Young | | 1 - 1 | 32 50 31 50 |
| 100300 | Mikado | do | • • • • • • • • • • • • • • • • • • • • | 13 | Chas. Robin, Collas | | 1 1 | 0.00 |
| | | | | 1 | & Co | do | 4 | 39 00 |
| 88669 | Morning Star | do do | | $\frac{12}{12}$ | Gustave Gionet W. S. Loggie & Co | Chatham | 3 | 25 00 |
| | Mary R Nellie | do | | ii | Dominique Gallien | | | 31 50 30 50 |
| | Normandy | do | | 11 | Philip Rive | Caraquet | 3 | 30 50 |
| 103004 | Oriole | do | | 11 | Thomas Ahier | Shippegan | 3 | 30 50 |
| 103005 | Osprey | do | | 10 14 | Olivion Dumus | do | | 36 00 |
| 100297 100776 | Palma Patrick | do do | | 11 | Olivier Duguay Philip Rive | Caraquet | 4 5 | 40 00 43 50 |
| | Providence | do | | 13 | Prospère Albert | do | | 39 00 |
| 100904 | P. T. S | do | | 11 | Thomas Sivret | do | 4 | 37 00 |
| 96732 | Providence | do | | 11 | Joseph L. Robichaud | ShippeganIsland | 1 4 | 37 00 |
| 72076 | Providence | do do | | $\frac{12}{11}$ | Thomas Ahier | do | | 38 00 |
| 103080 103764 | Ptarmigan Petrel | do | | 12 | do | do | | 30 50 38 00 |
| 103777 | Penguin | | | 13 | Wm. Fruing & Co | | | 26 00 |
| 103778 | Pelican | do | | 13 | do | do | 4 | 39 00 |
| 100979 | Ranger | do | | 10 | Chas. Robin, Collas | | 4 | 20.00 |
| 100775 | Red Gauntlet | do | | 11 | Philip Rive | | | 36 00 30 5 0 |
| 100952 | Replevin | | | | Chas. Robin, Collas | | 1 1 | 00 00 |
| | | | | | _ & Co | | . 4 | 36 00 |
| 97191 | Rita | do | | 12 | Chas. Robin, Collas | | . 3 | 21 50 |
| 100908 | Rosalie | do | | 10 | Edward O. LeBou- | | . 3 | 31 5 0 |
| | leo barrer | | | | thillier | do | . 3 | 29 50 |
| 100773 | Rupert | do | | 12 | Philip Rive | do | . 3 | 31 50 |
| 96727 103078 | Ryse | do do | | 11 13 | Sinaïe Aché | Lameque | . 3 | 30 50 |
| 103078 | Reward Red Weasel | | | 11 | Richard Young | do | . 4 | 39 00 37 00 |
| 103273 | Russel | | | | John M. Ward | Miscou | . 4 | 36 00 |
| 103587 | Romulus | do | | | W. S. Loggie, Co | Chatham | . 4 | 45 0 0 |
| 103287 | Raven | | | | Thomas Ahier | | | 37 00 |
| 100907 74401 | Sarah | do do | | | Robert Young Nazaire Noel | Lamèque | 4 3 | 36 00 30 50 |
| 103010 | Sarah B | do | | | Joseph Lanteigne(E) | Caraquet | . 3 | 29 50 |
| 92408 | Sarah A. W | do | | | Robert J. Wilson | Wilson's Point | . 3 | 34 50 |
| 103584 | Saxon | do | | | Philip Rive | | . 3 | 32 50 |
| 100914 | Sea Flower | do | | 11 | Chas. Robin, Collas | do | . 3 | 30 50 |
| 100901 | Sea Flower | do | | 12 | Robert Young | | . 4 | 38 00 |
| 100961 | Silver Moon | do | ••••• | 14 | Onésime Gallien | do | | 33 50 |
| 100788 | Sir Charles | | | | R. Young | 1 . | | 30 50 |
| 100974 103087 | SivretStanley | | | | do Marcel Caron | | | 36 00 36 00 |
| 100963 | Stanley | | | | Philip Rive | do | | 29 50 |
| 103767 | Stella Marie | do | | | Luc Friolet | do | . 4 | 45 00 |
| 103008 | St. Joseph | | | | Adolphe Aché Thomas Blanchard | Caracust | . 4 | 3 8 00 |
| 103772 100986 | Surprise | . 4 | | | Augustin Lanteigne | Little Shinnege | 3 n 3 | 29 50 30 50 |
| 96731 | Sea Star | do | | | Joseph Savoy | ShippeganIslan | d 4 | 39 00 |
| 100959 | Sea Bird | do | | 10 | W. S. Loggie & Co | Chatham | . 4 | 36 00 |
| | 11 9 | | | | | | | |

List of Vessels which received Fishing Bounty, &c.-New Brunswick-Con.

GLOUCESTER COUNTY-Corcluded.

| | I | 1 | 1 | | | | |
|-------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| Official Number | Name of Vessel. | Port of Registry. | Tounage. | Namo of Owner or Managing Owner. | Residence. | No. of Crew Paid. | Amount of Bounty Paid |
| | | | | | | | \$ cts. |
| | Swallow | | 11 | Thomas Ahier | Shippegan | | 37 00 |
| 103762 103761 | Swan Swing | | 14 | do | do | 3 | 33 50 |
| 100779 | Teutonic | | 11 | Agapit A. Albert C. Hubbard | do | 3 4 | 30 50 37 00 |
| 100918 | Tickler | | 12 | Chas. Robin, Collas | uo | 4 | 37 00 |
| | | | | & Co | do | 3 | 31 50 |
| 103583 | Two Brothers | | 11 | Mathew Wilson | Little Shippegan | 2 | 24 00 |
| 96738 | Three Brothers | | 12 | Richard Young | Shippegan | 4 | 38 00 |
| 103082 | Thrush | | | Thomas Ahier | do | 4 | 36 00 |
| 10325 | Valkyrie | | 12 | Philip Rive | | 3 | 31 50 |
| 100995 | Voltaire Von Moltke | | 10 | do | | 3 | 29 50 |
| 100966 103274 | Vesuvius | | | do | do | 3 | 30 50 |
| 103775 | Victoria | | 16 | George D. Maillet | Shippegan | 4 | 36 00 |
| 103588 | Vulture | | | W. S. Loggie & Co | do | 4 | 42 00 39 00 |
| 100985 | Wasp | | 12 | Chas. Robin, Collas | uo | 4 | 39 00 |
| 100000 | · · · · · · · · · · · · · · · · · · · | | 1- | & Co | Caragnet | 4 | 38 00 |
| 100953 | White Wings | do | 10 | R. Young | do | | 29 50 |
| 100973 | World's Fair | do | | do | do | 2 | 30 50 |
| 96735 | White Fish | | 12 | Joseph L. Savoy | Lamèque | 4 | 38 00 |
| | | | | | | | |
| 103079 | Wren | | | Thomas Ahier | Shippegan | 4 | |
| 103079 100920 | Zephyr | | | Joseph L. Savoy Thomas Ahier C. Robin, Collas & Co | Shippegan Caraquet | 3 | |
| | | do | 12 | C. Robin, Collas & Co | Shippegan Caraquet | 3 | 37 00 31 50 |
| 100920 | Zephyr | NORTHUM | BER | LAND COUNTY | Caraquet | 1 1 | 31 50 |
| 100920 | John Bull | NORTHUM | 12 | LAND COUNTY James Anderson' | Church Point | 4 | 31 50 |
| 100920 100969 92420 | John Bull | NORTHUM Chatham do | 12 BER 10 | LAND COUNTY | Church Point | 4 | 31 50 36 00 32 50 |
| 100920 100969 92420 | John Bull | NORTHUM Chatham do do | 12 BER 10 13 16 | LAND COUNTY James Anderson' Donald Loggie Jobn White | Church Point | 4 3 | 31 50 36 00 32 50 |
| 100920 100969 92420 | John Bull | NORTHUM Chatham do do | 12 BER 10 13 16 | LAND COUNTY James Anderson' Donald Loggie | Church Point | 4 3 | 31 50 |
| 100920 100969 92420 83096 | John Bull | NORTHUM Chatham do do | 12 BER 10 13 16 | LAND COUNTY James Anderson' Donald Loggie Jobn White | Church Point do Upper Neguac | 4 3 | |
| 100920 100969 92420 83096 | John Bull | NORTHUM Chatham do do RESTIG | 12 BER 10 13 16 OUC | LAND COUNTY James Anderson' John White | Church Point do Upper Neguac | 4 3 4 | 36 00 32 50 42 00 |
| 100920 100969 92420 83096 | John Bull | NORTHUM Chatham do do RESTIG | 12 BER 10 13 16 OUC | LAND COUNTY James Anderson' John White CHE COUNTY. Donald McGregor N COUNTY. | Church Point Church Point do Upper Neguac Dalhousie | 4 3 4 | 36 00 32 50 42 00 |
| 100920 100969 92420 83096 94959 88253 59373 | John Bull | NORTHUM Chatham do do RESTIG Lunenburg St. John St. Andrews | 12 BER 10 13 16 26 26 19 19 | LAND COUNTY James Anderson Donald Loggie John White CHE COUNTY. Donald McGregor N COUNTY. Addison Thompson Charles Harkins | Church Point do Upper Neguac Dalhousie | 3 4 4 3 4 4 5 5 3 | 36 00 32 50 42 00 52 00 |
| 100920 100969 92420 83096 94959 88253 59373 104000 | John Bull | NORTHUM Chatham do do St. John St. Andrews do | 12 BER 10 13 16 OUC 26 JOH: 19 14 11 | LAND COUNTY James Anderson Donald Loggie John White CHE COUNTY. Donald McGregor N COUNTY. Addison Thompson Charles Harkins | Church Point do Upper Neguac Dalhousie | 3 4 4 3 4 4 5 5 3 | 36 00 32 50 42 00 52 00 |
| 100920 100969 92420 83096 94959 88253 59373 104000 77783 | John Bull | NORTHUM Chatham | 12 BER 10 13 16 OUC 26 JOH: 19 14 11 15 | LAND COUNTY James Anderson' John White Donald Loggie John White CHE COUNTY. Addison Thompson Charles Harkins Francis Campbell Henry Alston | Church Point do Upper Neguac Dalhousie Dipper Harbour do do | 4 4 4 4 5 3 2 2 3 | 36 00 32 50 42 00 52 00 51 50 33 50 24 00 |
| 100920 100969 92420 83096 94959 88253 59373 104000 77783 52159 | Zephyr John Bull Mary Louise St. Patrick Winnie G. S E. B. Colwell E M. Oliver Little Gracie Lost Heir Mary E | NORTHUM Chatham do RESTIG Lunenburg St. John St. Andrews do St. John | 12 BER 10 13 16 0000 26 19 14 11 15 21 | James Anderson James Anderson Donald Loggie John White CHE COUNTY. Donald McGregor N COUNTY. Addison Thompson Charles Harkins Francis Campbell Henry Alston Frederick Buchanan. | Church Point do Upper Neguac Dalhousie Dipper Harbour do do Pisarinco | 4 4 4 4 5 3 2 3 3 3 | 36 00 32 50 42 00 52 00 51 50 33 50 24 00 |
| 100920 100969 92420 83096 94959 94959 88253 59373 104000 77783 52159 92509 | Zephyr | NORTHUM Chatham do do RESTIG Lunenburg St. John St. Andrews do St. John St. Andrews | 12 10 13 16 26 26 19 14 11 15 21 13 | LAND COUNTY James Anderson' Donald Loggie John White CHE COUNTY. Donald McGregor N COUNTY. Addison Thompson Charles Harkins Francis Campbell Henry Alston Frederick Buchanan Mark Shannon | Church Point do Upper Neguac Dalhousie Dipper Harbour do do Pisarinco St. John | 4 3 4 3 4 5 3 2 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 4 4 5 6 7 6 7 8 9 8 9 9 9 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 | 36 00 32 50 42 00 52 00 51 50 33 50 24 00 34 50 40 50 40 50 32 50 |
| 100920 100969 92420 83096 94959 88253 59373 104000 77783 52159 | Zephyr John Bull Mary Louise St. Patrick Winnie G. S E. B. Colwell E M. Oliver Little Gracie Lost Heir Mary E | NORTHUM Chatham do do RESTIG Lunenburg St. John st. Andrews do St. John St. John St. Andrews Yarmouth | 12 BER 10 13 16 26 26 19 14 11 15 21 13 11 11 13 11 11 12 13 11 11 | James Anderson James Anderson Donald Loggie John White CHE COUNTY. Donald McGregor N COUNTY. Addison Thompson Charles Harkins Francis Campbell Henry Alston Frederick Buchanan. | Church Point do Upper Neguac Dalhousie Dipper Harbour do do Pisarinco St. John | 4 3 4 3 4 5 3 2 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 4 4 5 6 7 6 7 8 9 8 9 9 9 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 | 36 00 32 50 42 00 |

LIST of Vessels which received Fishing Bounty, &c.—Con.

PROVINCE OF PRINCE EDWARD ISLAND.

KING'S COUNTY.

| | Official Number. | Nome of Vessel. | Report of Registry. | Tonnage. | Name of Owner or Managing Owner. | Residence. | No. of Orew paid. | Amount of Bounty paid. |
|--------------------------------------------------------------------------------------------------------------|------------------|--------------------|------------------------|----------|----------------------------------|----------------|----------------------|---------------------------|
| 92675 Can't Help It | | | | | <u> </u> | | | \$ cts. |
| 92675 Can't Help It | 69132 | Belle of the Bay | Gusborough | 20 | John Goshee | Murray River | 4 | 46 00 |
| 38335 Elizabeth | 92675 | Can't Help It | Pictou | 40 | John Herring | Murray Har. S | 9 | 98 50 |
| Satarrown | 38335 | Elizabeth | Arichat | 17 | William Hemphill | Georgetown | 3 | 36 50 |
| 10069 Francis E. Willard do | 38477 | Elizabeth | do | 18 | | | | 57 00 |
| Total A | 83196 | Ethel Blanche | Pictou | | | Murray Harb. S | 7 | 62 50 |
| Total A | 100691 | Francis E. Willard | do | 23 | Benjamin H. Herring | do | 6 | |
| Total A | 75552 | Hannah Elridge | Charlottetown | 57 | Henry Dicks | Georgetown | 7 | |
| 90639 Morell | 75566 | Julia A | i do i | 15 | Reuben Penny | Murray Harb. S | 4 | |
| 90639 Morell | 69109 | Marcella Butler | Halifax | 38 | John Hemphill | Georgetown | 4 | |
| 100696 Marion Emerson Pictou | 90639 | Morell | Georgetown | 16 | It dward Delorev | do | 1 3 1 | |
| 74160 Sea Bird Charlottetown 20 Joseph White do 6 59 00 90488 Wave do 19 James Delorey Brudenell 4 45 00 | | | | 30 | Reuben Cahoon | Murray Harb. S | 8 | |
| 90488 Wave do 19 James Delorey Brudenell 4 45 00 | 74160 | Sea Bird | | 20 | Joseph White | _ do | 6 | 59 00 |
| | 90488 | Wave | do | 19 | James Delorey | Brudenell | 4 | 45 00 |

PRINCE COUNTY.

QUEEN'S COUNTY.

| 92466 G. H. Gardner Charlottetown 17 E. Marshall North Rustico 7 62 96936 Katie and Ella do 15 Lauchlin H. McLaine Charlottetown 3 39 90206 Minnie Mac do 15 John W. Clow Trac. road lot 34 5 45 92663 Prince Edward do 18 Lauchlin H. McLaine Charlottetown 1 24 103592 Rosamond do 18 Thomas Doyle North Rustico 6 57 |
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^{*} For 1897.

List of Vessels which received Fishing Bounty, &c.—Con

PROVINCE OF QUEBEC.

GASPÉ COUNTY.

| Official Number. | Name of Vessel. | Port of Registry. | Tonnage. | Name of Owner or Managing Owner. | Residence. | No. of Crew Paid. | Amount of Bounty paid. |
|------------------|-----------------|----------------------|----------|----------------------------------------|---------------|----------------------|---------------------------|
| | | | | | | ! | \$ cts. |
| 94675 | Success | Halifax | 15 | R. J. Leslie | Amherst, M. I | 4 | 41 00 |

SAGUENAY COUNTY.

| 74270 | Amarilda | Quebec | 24 | Cléophas Vézina | St. Michael | 3 | 43 50 |
|--------|---------------------|---------|----|------------------------------|------------------|----|--------|
| 85756 | Aristile | do | 19 | Philéas Vézina | do | 2 | 32 00 |
| 61966 | D. Cronan | Halifax | 40 | Pierre Le Marquand. | Esquimaux Point | 7 | 85 50 |
| 103533 | Dolphin | do | 21 | James Fequet | Old Fort Island. | 3 | 40 50 |
| 88469 | George Clarke, jr | Arichat | 64 | James Fequet Luke Cormier | Esquimaux Point | 8 | 116 00 |
| 69382 | Marie du Sacré Cœur | Gaspé | 46 | Paul Landry | do | 10 | 111 00 |
| 100365 | Marie Louise | Quebec | 13 | François Germain | Ottawa | 2 | 26 00 |
| 103358 | Romeo | do | 22 | Louis Pineau | Bic | 2 | 35 00 |
| 107231 | Ste. Anne | do | 13 | Magloire Chouinard. | Manicouagan | 4 | 39 00 |
| 92334 | Ste. Marie | do | 53 | Pierre Ouellette | Quebec | 6 | 92 00 |
| 80753 | Stella Maris | | | Louis Cummings | | 8 | 103 00 |
| 75680 | Sea Star | do | 52 | William Leblanc | do | 6 | 91 00 |
| 69591 | Ste. Marie | do | 37 | Alex Scherrer | do | 6 | 76 00 |
| | Willie | | 36 | Louis Gagnon | Pentecost | 3 | 55 50 |
| 66727 | Willow | do | 18 | August Boulet | St. Thomas Mgnv | 3 | 37 50 |

APPENDIX No 3.

NOVA SCOTIA.

District No. 1.—Comprising the four counties of the Island of Cape Breton. Inspector A. C. Bertram, North Sydney, C. B.

District No. 2,—Comprising the counties of Cumberland, Colchester, Pictou. Antigonish, Guysborough, Halifax and Hants.

Inspector Robert Hockin, Pictou.

District No. 3.—Comprising the counties of King's, Annapolis, Digby, Yarmouth. Shelburne, Queen's and Lunenburg.

Inspector L. S. Ford, Milton.

DISTRICT No. 1.

ANNUAL REPORT ON THE FISHERIES OF CAPE BRETON ISLAND, 1898.

NORTH SYDNEY, C. B., January 2, 1899.

Hon. Sir Louis H. Davies, K.C.M.G., Minister of Marine and Fisheries. Ottawa.

Sir,—I have the honour to submit my annual report on the fisheries for 1898 of District No. 1, Nova Scotia, comprising the counties of Cape Breton, Inverness, Richmond and Victoria, together with tabulated statements giving the products of the fishery

for the year in kinds, quantities and values.

The total product for 1898 amounts in value to \$1,061,235.39 compared with \$1,056,115.83 for the previous year, showing an increase for the present year of \$5,119.56 over that of 1897. This increase is confined to the counties of Cape Breton and Inverness. The former gives a value increase of \$27,706.47, while the increase in the latter county is \$77,315.50. It will be observed therefore that Richmond and Victoria counties show a considerable decrease: the former \$37,838.30 and the latter \$62.064.11.

The classes of fish which make up the increase in Cape Breton county are salmon. herring, cod and haddock, and in Inverness county, salmon, pickled herring, mackerel, cod and halibut; while a short catch in salmon, mackerel, lobsters, cod, hake and halibut make up the decrease in Victoria county, and lobsters, cod, haddock, pollock and squid

account for the decrease in Richmond county.

The following statement will show in what classes of fish have the increase and decrease occurred in the whole Island fishery:—

| canned lbs. 7,620 | Kind of fish. | | Increase. | Decrease. |
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| pickled | almon, fresh | | | |
| " fresh lbs. 266,66 " smoked lbs. 23,173 " pickled brls. 3,580 obsters, canned. cans. 198,62 " fresh in shell lbs. 442,100 od dried cwt. 13,67 addock, fresh lbs. 15,865 " dried cwt. 9 ake dried cwt. 9 ollock cwt. 1,55 alibut lbs. 55,96 rout lbs. 6,165 had brls. 1 melts lbs. 27,66 lewives brls. 14 els brls. 44 ysters brls. 73 | | | 46 | , |
| smoked lbs. 11,00 ackerel, fresh lbs. 23,173 pickled brls. 3,580 obsters, canned. cans. 198,62 obsters, in fresh in shell lbs. 442,100 od dried cwt. 13,67 addock, fresh lbs. 15,865 n dried cwt. 9 ake dried cwt. 9 ollock cwt. 1,55 alibut lbs. 55,96 rout lbs. 6,165 had brls. 1 melts lbs. 27,66 lewives brls. 14 els brls. 44 ysters brls. 73 | Ierring, pickled | | 1,882 | |
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LOBSTERS.

The greatest falling off in any branch of the fishing industry has occurred in canned lobsters amounting to 198,626 pounds. This decrease is not confined to one county but is distributed among the four counties. Yet there were three more canneries in operation in 1898 than in the previous year. The cause of this marked falling off in the lobster fishery is owing to scarcity of lobsters and not to any other cause, as the industry was as vigorously prosecuted during the present season as in any previous year. course there were 442,100 pounds of live lobsters exported this summer against 13,100 pounds the previous year. I fear that some form of restriction is necessary to preserve the lobster industry. The high price realized by both packers and fishermen for these crustacians now causes vigorous prosecution of the industry, and while some packers and fishermen desire the preservation of this important fishery, there are others whose sole object is to get the fish. The danger to this important branch is not in taking undersized fish as much as in destroying the mother before spawning. Packers know that the fishermen when out at their traps remove the 'berries' from female lobsters, yet they will tell the officers they are powerless to prevent this practice. In some districts the spawn fish are taken from the traps outside and carried to the inside waters near a factory and liberated, but this is only done in rare cases. In Richmond county a Mr. Levisconte has given instructions to his fishermen to take the female lobsters to a pond near his factory where they are liberated. A gate made of wire prevents the fish from getting out and at the same time allows the sea water to get in. Levisconte as well as other well-informed packers are of the opinion that only once in two years does a female lobster deposit eggs. It is only in rare instances that packers take the trouble of preserving even the female lobster found with spawn on the outside. The packers can preserve this industry if they so desire. They have the remedy in their own hands. When they know that the female lobster is taken and the spawn rubbed off, it is their duty to give the officers such information as will lead to the punishment

of the guilty fishermen. Then again, why should not the packers form themselves into an association for mutual protection from dishonest fishermen who destroy in the above mentioned manner the egg bearing mother? If some such system of protecting the spawning grounds had been formulated there would not be such a great falling off in the lobster fishery as is noticeable in this report. Where so much indifference in the preservation of the grounds is exhibited by both packers and fishermen, the Government should hesitate before acquiescing in their appeals for extension of the fishing season. The industry is too valuable to the country to be thus jeopardized.

It would not surprise me if Cape Breton in the near future was a strong competitor with western Nova Scotia in the supply of live lobsters for the American market. With two Boston boats calling weekly at Port Hawkesbury there is no reason why thousands of cases of lobsters could not be shipped in these steamers from Cape Breton. The live lobster industry from this Island is bound to develop, and possibly next season it will assume large proportions, particularly from the 'Bras d'Or Lakes' and the southern coast of Cape Breton and Richmond counties.

COD.

I find by the returns that the codfish catch did not come within 13,670 cwt. of the quantity taken the previous year. Yet there were over six hundred more men employed in the prosecution of the fishing industry this year than in the past season. The cod fishery being one of the leading branches, there must be some noticeable reason for such a falling off in the catch compared with the previous year, particularly as there was such a marked increase in the number of fishermen. There is no doubt that these fish are migratory. Invariably when fish are reported plentiful, say for instance in Newfoundland waters they are scarce in our waters. That they move about from bank to bank is now fairly well understood by fishermen. Next season our shore waters may be teeming with cod, while on the Newfoundland coast they may be reported scarce. The statements frequently made that the waters are yearly becoming depleted of the cod family are not borne out by facts. The cod, the most ravenous of fish, move about over a large sea area and wherever food is plentiful cod are found in abundance. the cod family spawn in deep water and as the ova floats and develops in the waters of the Atlantic, the female cod is not so much exposed to the destructive agencies adopted by man as in the case of fish which seek the inland waters to spawn. Scarcity of these fish in the inshore waters in the early part of the season and scarcity of bait are the causes of the falling off in this season's catch. The bait question is the chief cause. In our coastal waters cod are plentiful in autumn. These fish appear to move inshore and feed on the numerous banks which surround this island. I do not mean to say they are not found plentiful on some inshore banks in the early part of the season, but in the autumn cod can be found on all the inshore banks. The want of codfish bait is a yearly recurring circumstance in most fishing districts and causes annual loss to this valuable industry. It is to be regretted that our fishermen, as a rule, do not avail themselves of that invaluable adjunct to their business -- an ice house -- which, in this country, can be inexpensively constructed and easily filled at a season when they are otherwise idle. With a small, but well filled ice house, every fisherman could lay up bait which almost invariably appears during some point of the season, and always in advance of the larger fish. Every fisherman could thus provide against frequent losses resulting from want of bait. Some means that would be instrumental in directing their efforts to this end, would prove of incalculable value.

MACKEREL.

There is an increase of 23,173 pounds of fresh and 3,580 barrels of pickled mackerel over the catch of 1897, which was a poor one. For the past two years the fall catches were failures; the early summer fishery in each year largely making up the catch given in the statistics. Unless mackerel are allowed to reach the spawning grounds

unmolested by the destructive purse-seines, I fear that this important fishery will become a thing of the past. The natural spawning grounds for these fish are in the North Bay and the waters of the Magdalen Islands. Sometimes the ova in the female is so matured when they make their appearance in Cape Breton waters that they spawn in our bays. Aspy Bay and Bay St. Lawrence are their spawning grounds in our waters. While on their way to the spawning grounds during the last of May and first of June they are pursued by purse-seining vessels, and tens of thousands of barrels of the mother fish are taken. How can the supply be kept up under these circumstances? Year after year mackerel appear to be becoming scarcer and unless purse-seining is prohibited until after spawning season is over, failure will be the word used when writing reports of this fishery.

HERRING.

The pickled herring statistics show an increase of 1.882 barrels over last year, but there is a decrease of 266,690 pounds of fresh and 11,000 pounds of smoked herring. This decrease has again occurred in the upper waters of the Bras d'Or Lakes, spring herring being taken there for bait purposes. The demand for this bait fish has fallen off during the past two years owing to the fact that considerable quantities of bait or frozen herring have been imported from Newfoundland, purchased by lobster fishermen and used by them to bait their traps. While the spring run of herring keeps up, the mid-summer fat herring, the best herring taken in Canadian waters, do not strike into our bays and harbours as formerly. Some fishermen attribute the absence of these excellent commercial fish to the increase of lobster traps in our inshore waters, others to July gales, which force the fish back into deep water. It is not likely that either the presence of traps or July gales is the cause of the absence of the mid summer herring, as they have been known to strike in large schools when traps on the Eastern coast were as numerous as they are now. The gale theory does not hold good either for the reason that in seasons when gales did not occur these fish did not appear in as large number as formerly. They must seek some other haunts, possibly in some of the bays of Newfoundland, where herring have appeared in immense shoals during recent years.

SALMON.

The salmon fishery has been good. In fresh salmon, largely for export, there is an increase of 51,116 pounds, in canned 7,620 pounds and in pickled 46 barrels. The increase has largely been made up in Inverness county, particularly in that stretch of coast from Broad Cove, north to Pleasant Bay. Salmon are purchased from the fishermen by a Mr. Abbot, an American gentleman, who has a freezer at Margaree Harbour. and also by the Messrs. Loggie, who employ a small steamer to carry the fish from the net fishermen to their freezers at Mulgrave. Besides the large quantities which are taken into the freezers referred to, a considerable amount of fresh salmon is shipped in ice to the cities of Canada during the fishing season. Margaree and Little River, Cheticamp are the best spawning rivers in Inverness county. The former has been stocked with salmon fry from the hatchery in this county, but no fry has ever been placed in the Cheticamp River, owing to the difficulty of reaching it. In August last, accompanied by a guide, I proceeded to the upper waters of Little River. After a walk of about three and a half miles we reached the first pool, a very large deep pool between high mountains. I observed no fish in this pool. We proceeded until two more miles were covered. At this point we came to another large pool. I noticed a school of salmon in the river below. They soon made for the pool, which I discovered to my amazement was literally alive with salmon. This pool is about 200 feet in length, sixty in width and very deep I remained for some twenty minutes watching the fish schooling about. The head of the pool was cut off by a large rock, but I knew from the roaring noise that there was a high fall at the upper end. I heard the guide from the cliff above call me to come up, which I did and witnessed for the first time salmon attempting to reach the upper waters by leaping the falls. The fall from the top to the

pool below was about fourteen feet and a heavy volume of water leaped over it, causing a great white foam and shower of spray. While I remained there I counted 123 salmon which tried to jump the falls and not one succeeded. They would leap out of the white foam below and sometimes strike the rock on the side of the fall and drop back into the pool below. Others would be thrown back by the force of the water, there being no 'rest' above after gaining the top. It was a grand sight. I do not believe salmon ever reached beyond this fall, although I was informed that two salmon were seen in pools above by prospectors. The upper are much better for spawning than the lower waters and in order to enable these fish to reach the spawning grounds above I have reported the matter to the department and asked for an expenditure to have a portion of the fall removed. With access to the spawning grounds above, I believe the supply of salmon in a few years would be greatly increased.

HALIBUT.

There is a decrease of 55,952 pounds in halibut. The only county in my district showing an increase catch of halibut is Inverness. There is no market near at hand for fresh halibut, which accounts for the decrease. American vessels report abundance of these fish on the outside banks.

OTHER BRANCHES.

The other classes of fish are much about the same as in previous years, excepting smelts which show a decreased catch of 27,662 pounds. An open season in December and first part of January is the main cause of the decrease in smelts. Frost is required for the export of these fish. The supply is well kept up.

The various rivers and streams were well protected this year from poachers. The angling for salmon and trout was good in the month of July and each year the number of anglers are on the increase. Since communication has been directly opened up by steamer with Newfoundland, many anglers first whip the Cape Breton streams and afterwards proceed to Newfoundland where the angling season opens later. The money spent by the Government in the protection of our rivers and streams is money well spent, not only from a commercial standpoint, but in protecting valuable rivers for anglers who come from abroad and spend money in our country.

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

> A. C. BERTRAM, Inspector of Fisheries.

SYNOPSIS OF FISHERY OVERSEERS' REPORTS FOR THE ISLAND OF CAPE BRETON, 1898.

CAPE BRETON COUNTY.

Overseer Joseph McPherson, of North Sydney, reports a decrease in the catch of herring and lobsters in his district over the previous year. The decrease in the herring fishery he attributes to the large number of steamers which frequent North Sydney Harbour during the herring season and frighten this fish away. The late date for the commencement of the season's operations and stormy weather he gives as the cause of the scarcity of lobsters. The other branches of the fishery in his district were pretty much the same as last season. The close seasons were well observed.

Overseer Michael R. McInnes, of Amaquades Pond, reports a more vigorous prosecution of the cod fishing industry in his district during this season than in previous

years, owing to the fishermen procuring better prices for this fish in the local markets. On account of scarcity of bait, however, the catch was not as large as might be. The lobster fishery was carried on by only a few fishermen, but the result proved so satisfactory that he is of the opinion that this industry will be prosecuted on a much larger scale next season. About per cent of the 50 total catch of all branches of the fishery in his district was sold in Canada, the balance being used for home consumption. No illegal fishing came to his notice during the season.

Overseer Timothy Sullivan, of Little Bras d'Or, reports a decrease in the catch of cod this season. He attributes this to a less vigorous prosecution of this industry than in former years. A larger number of fishermen were engaged in the lobster fishery in his district this season than previously. He reports the July or mid-summer run of

herring scarce. The close seasons were well observed.

Overseer John McLean, of Gabarous Lake, reports an increase in cod and a decrease in mackerel, herring and salmon. He also reports a great scarcity of bait. No abuses existed in his district and the several close seasons were well observed.

Overseer Henry Le Vatte, of Louisburg, reports an increase in cod and haddock in his district this season. The fishermen made large catches of these fish, and were it not for scarcity of bait during the spring and the presence of dog-fish on the coast during the summer a much larger catch would have been taken. He remarks that many of the fishermen in his district engage in the lobster fishery so much so that this industry is being overdone. He attributes the cause of this too vigorous prosecution of the lobster fishery to the fact that fishermen are unable to prosecute the other branches of the industry owing to want of bait. He hopes that some remedy to assist the fishermen by cold storage facilities or otherwise will be undertaken by the Government.

Overseer Joseph McDonald, of Little Lorraine, reports an increase in all branches of the industry this season excepting mackerel. The prices for fish ruled higher than in previous years and this caused a more vigorous prosecution of the industry. About 95 per cent of the total catch was sold in Canadian markets, the balance being used for

home consumption. No abuses existed in his district.

Overseer John McCuish, of Scattarie Island, reports an increase in cod and herring. The mackerel fishery was almost a total failure. The lobster fishery was fairly good, but the season was short owing to the presence of ice on the coast during the spring months. The close seasons were well observed. About 90 per cent of the fish taken in his district was sold in Canadian markets, the balance being used for home consumption.

Overseer C. E. Rees, of Port Morien, reports a fair increase in the herring and a slight increase in cod over last year. The increase in cod he attributes to the favourable weather enjoyed for fall fishing. There was a decrease in mackerel and halibut, owing doubtless to scarcity of these fish. The close seasons were well observed. Almost the total catch of fish was sold in Canada, only a very small portion (about 3 per cent) being used for home consumption.

INVERNESS COUNTY.

Overseer D. F. McLean, of Port Hood, reports an increase in salmon and mackerel and a decrease in all other branches. The increase in mackerel he attributes to a more vigorous prosecution of the industry by vessel fishermen than formerly. Many causes are attributed for the decreases in the other branches of the industry, such as frequent storms, scarcity of bait, presence of dog-fish on the coast, etc. He is of the opinion, however, that if those interested in the prosecution of the fishing industry had contented themselves during the past thirty years with the use of hand lines for fishing mackerel and cod-fish instead of the scientific use of seines and trawls, such a great scarcity of fish would not now be so noticeable in the officers' reports each year.

About 20 per cent of the fish taken in his district was used for home consumption, and the remainder in about equal proportions is sold in Canada and exported to foreign countries. The close seasons were strictly observed, special guardians rendering efficient service. The Sawdust Act was complied with by the millowners. No fishways exist in his district. One trap-net under license from the Department of Fisheries was

operated; the total value of fish caught therein being \$242.50.

Overseer Lewis McKeen, of Mabou, reports a fairly good catch of cod during the latter part of July and through the month of August, but during the early part of September dog-fish made their appearance and proved very destructive to this fishery, not only by frightening the fish away but also by destroying trawls and nets. Mackerel were scarce, the few that were taken being used for bait. He is unable to attribute a cause for the scarcity of these fish. The catch of spring herring was good, but the midsummer run was a failure. It is believed that large schools of fall herring came around the coast but were frightened away by dog-fish. The salmon catch was below that of last year. Lobster fishing was fairly good during the first part of the season but did not continue so, and the return shows considerable decrease as compared with the catch of 1897. Close seasons were fairly well observed, as was also the Sawdust Act. There are no fishways in his district.

Overseer Archibald A. Chisholm, of Margaree Forks, reports a slight increase in the total catch of the fisheries in his district this season over the past year. Dog-fish interfered somewhat with the fall fishing by destroying fishing gear. A larger number of men were engaged in the industry this season than previously, which doubtless accounts for the increase referred to.

Overseer Albert Ingraham, of North-east Margaree, reports a large falling off in cod and lobsters in his district and a slight increase in salmon and mackerel. The close seasons were well observed. About 80 per cent of the fish taken in his district is sold in Canada and the balance used for home consumption.

Overseer William Aucoin, of Eastern Harbour, Cheticamp, reports the herring fishery is fairly good. Cod were plentiful in the early part of the season but gradually diminished towards the close, and the returns show a decrease in this branch of the industry. Haddock, hake and halibut were scarce. Owing to the scarcity of bait mackerel were not as plentiful as was expected. Lobsters were about the same as last year. About 60 per cent of the fish caught was experted to foreign countries, 30 per cent was sold in Canada and the remainder used for home consumption. Close seasons were strictly observed.

Overseer Angus McIntosh, of Pleasant Bay, reports an increase in the catch of lobsters, mackerel and salmon owing to a more vigorous prosecution of these branches than in previous years. The codfish catch was about the same as last year. No abuses exist in his district, and the close seasons were observed.

RICHMOND COUNTY.

Overseer D. R. Boyle, of West Arichat, reports a large decrease in the catch of cod, haddock, hake, halibut and squid, and a slight increase in herring, mackerel and salmon. The large falling off in the cod fishery is severely felt by the fishermen, it being the most important branch of the industry in his district. This decrease is principally owing to boisterous weather which prevailed during the fall months, also to the fact that fewer vessels were engaged in prosecuting the industry than formerly. The lobster catch is about the same as last year, the decrease in canned lobsters being more than counterbalanced by the increased quantity exported in shell this season. Fairly good prices for this season's yield of the different branches were realized by the fishermen, and were it not for this fact their loss owing to the large falling off in several branches of the industry, would be most severely felt. The close seasons were strictly observed and no serious infraction of the regulations came under his notice. About 90 per cent of the total catch of fish in his district was shipped to Halifax and P. E. Island markets, the balance being used for home consumption.

Overseer Archibald Morrison, of Cannes, reports a decrease in the catch of cod, herring, mackerel and lobsters. The codfish catch although small proved remunerative as the fishermen secured very fair prices for their catch. The lobster fishery is gradually diminishing owing to the grounds being overfished. He is of the opinion that the only means of preserving this important industry from extinction is by prohibiting lobster fishing altogether for a period of several years. About 95 per cent of the fish taken was sold in Canada, and the balance used for home consumption.

· Overseer Arthur Brymer, of Lower L'Ardoise, reports an increase in mackerel, hake and pollock, and an average catch of cod and haddock. The cause of the increase in the above branches he attributes to a more vigorous prosecution of the industry than formerly. The close seasons were well observed.

VICTORIA COUNTY.

Overseer W. R. Moffatt, of Cape North, reports a decrease in all branches of the fisheries in his district over the year 1897, owing to stormy weather and scarcity of fish. The total catch of mackerel was shipped to the United States. Of the other branches 75 per cent was sold in Canada and the balance used for home consumption. The close seasons were well observed.

Overseer John D. Morrison, of Wreck Cove, also reports a great scarcity of all kinds of fish in his district, consequently the returns show a considerable falling off compared with last year. No illegal fishing was carried on and no abuses exist in his district. About 70 per cent of the total catch was sold in Canada, the balance being used for home consumption.

Overseer Charles McRae, of Middle River, reports a slight increase in salmon and cod over last year's catch. The different branches of the ffsheries in his district appear to have been more vigorously prosecuted this year than previously. About 70 per cent of the catch of fish taken in his district was sold in Canada and the balance used for home consumption. There are no fishways in his district. The regulations were well observed.

Overseer Duncan Gillis, of Baddeck, reports an average catch in the various branches of the fisheries in his district this season. No abuses existed and the several close seasons were well observed. About 70 per cent of the total catch of fish was sold in the Canadian markets, the balance being used for home consumption.

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

> A. C. BERTRAM, Inspector of Fisheries

N.B.—The overseers in Victoria county being all new officers and appointed within the present year they are not in a position to make accurate report on the fisheries of their respective districts as the overseers in the other counties who have had longer experience.

A. C. B.

DISTRICT No. 2.

ANNUAL REPORT OF THE FISHERIES OF DISTRICT No. 2, NOVA SCOTIA, COMPRISING THE COUNTIES OF ANTIGONISH, COLCHESTER, CUMBERLAND, GUYSBOROUGH, HALIFAX, HANTS AND PICTOU.

Рістои, January 2, 1899.

Hon. Sir Louis H. Davies, K.C.M.G., Minister of Marine and Fisheries.

SIR,—I have the honour to submit my tenth annual report of the fisheries in District No 2, Province of Nova Scotia, together with tabulated returns, showing the quantities of each kind of fish caught as well as comparative tables showing the increase or decrease of the catch of each kind of fish.

The estimated value of the total catch for the past season is \$1,456,271, as compared with the estimated value of the catch for the year 1897, \$1,464,974, showing a decrease in value of \$8,703 or less than one per cent.

Since the year 1890 the value of the several years catch has been as follows:-

| 1890 | | | | | | | | | | | | | | | | | | | | | | | | \$1 | ,4 | ŀ5 | 3, | 0] | l5 | |
|------|--|------|------|--|--|--|------|------|--|----|---|--|--|--|------|--|---|------|---|---|---|---|---|-----|-----|----|----|----|----|--|
| 1891 | | | | | | | | | | | | | | | | | | | | | | | | 1 | ,€ | 54 | 0, | 91 | 2 | |
| 1892 | | | | | | | | | | | | | | | | | | | | | | | | 1 | ,: | 35 | 7, | 20 | 8(| |
| 1893 | | | | | | | | | | | | | | | | | | | | | | | | 1 | ,4 | 12 | 7, | 6(|)5 | |
| 1894 | | | | | | | | | | ٠. | | | | | | | | | • | | | • | | 1 | , : | 51 | 0, | 90 | 00 | |
| 1895 | | | | | | | | | | | | | | | | | | | | | | | | 1 | ,4 | 12 | 9, | 78 | 32 | |
| 1896 | | | | | | | | | | | | | | | | | | | | | | | • | 1 | , 4 | 34 | 5, | 46 | 53 | |
| 1897 | | | | | | | | | | | ÷ | | | | | | • | | • | • | • | | | 1 | ,4 | 16 | 1, | 3: | 37 | |
| 1898 | | | | | | | | | | | | | | | | | | | | | | | | 1 | ,4 | ŀĐ | 6, | 27 | Ί | |

These figures speak for themselves showing that the results of the year's operations are about an average of that of the past nine years.

Of the anadromous fishes last year, the reported catch of-

| Salmon shows a decrease of | 3 per | cent. |
|------------------------------|-------|-------|
| Shad shows an increase of | 100 | " |
| Smelts show an increase of | | " |
| Alewives show an increase of | | " |

Of the deep-sea fish the catch of

| Halibut shows an increase of over | 100 | " |
|------------------------------------|-----|----|
| Cod shows an increase of about | | 66 |
| Haddock shows a decrease of about | | " |
| Hake shows an increase of about | 30 | " |
| Pollock shows an increase of about | 20 | 46 |

Comparing the aggregate catch of the whole cod family with that of last season there is an increase of about 6 per cent.

SALMON.

There was a decrease in the quantity caught on the Atlantic shores of the district of 12 per cent, viz., in Guysboro county, a decrease of 15 per cent, and in Halifax county a

decrease of 7 per cent. In the Bay of Fundy portion of the district there was a decrease of 20 per cent, while on the Straits of Northumberland there was an increase of 23 per cent.

SHAD.

The product of the shad fishery is remarkable, showing an increase of about 100 per cent over last season.

This fishery is of little or no importance upon any other part of the district excep-

ting the counties bordering on the Bay of Fundy.
Since the year 1889 the yield has been as follows:—

| | Barrels. |
|-------|----------------|
| 1889 | |
| 1890 | 750 |
| 1891 | |
| 1892 | 1,811 |
| 1893 | 746 |
| 1894 | 981 |
| 1895 | 1,185 |
| 1896, | 1,079 |
| 1897 | 1,382 |
| 1898 | |

Just what has been the cause of this increase is difficult to determine. The only known factor which appears likely to change the results being the better system of river protection adopted five or six years ago, whereby the close season from Friday evening until Monday morning is better enforced during the spawing season while the fish are in the rivers.

ALEWIVES.

Last season I had to report a decrease in the catch of alewives of about 42 per cent from the catch of the previous year. This season the returns show an increase of 12 per cent over the catch of last year.

It is remarkable, however, that on the Atlantic coast not only there was no increase but a very considerable decrease of about 40 per cent from last year's catch, while from the Bay of Fundy counties the reports show an increase of 175 per cent over the catch of last season.

Assuming that these fish ascend the coast as the temperature of the water rises it may be that prevailing easterly winds may turn their course up the Bay of Fundy, and that this accounts for the larger catch in that portion of the district. At any rate, it appears to be evidence that gaspereaux are not so likely to return to their native waters as fish of the salmon family.

The faculty of discerning whether the waters of a river are from streams with lakes and still waters on them or from those of a more rapid character seems to be quite keen, for with two branches on a river, one with lakes, the other without, these fish seem to have the instinct to discorn the lake waters: they will ascend that branch and are not found in the other, nor will they ascend rivers that have no lakes or still waters on them. They spawn in the still waters.

SMELTS.

The product of the year's operations shows an increase of about 9 per cent over the yield of last season.

Upon the Straits of Northumberland these fish spawn in the month of May, and the close season under the regulations is from April 1 to July 1. I was surprised to find evidence of recent spawning in rivers flowing into the Atlantic in the county of Guys-

boro as late as July 10, in a brook at Port Hilford. The bottom of the brook was covered with spawn and there was quite a number of smelts in the brook at the time.

From inquiry it appeared to be quite unusual for these fish to be seen in that brook so late in the season and it may have been owing to some abnormal cause; however, it will be the subject of investigation during the ensuing season, so that there may be reliable data regarding the spawning time of these fish on the Atlantic coast.

It may be that because of a lower degree of temperature that they do not spawn so early as in the Straits of Northumberland.

HERRING.

The catch this year is only two-thirds of that of last: and the smallest reported catch since the district was set off. The following list shows the quantity in barrels caught each season since 1889. I have assumed that 200 lbs. of fresh fish are equal to a barrel.

| 1889 | 38,019 |
|--------|--------|
| 1890 | |
| 1891 | 30 952 |
| 1892 | 43,435 |
| 1893., | 30,981 |
| 1894 | 41,607 |
| 1895 | 70,370 |
| 1896 | 28,018 |
| 1897 | 38,671 |
| 1898 | 25,570 |

MACKEREL.

The reports are not satisfactory inasmuch as they show a catch 40 percent less than that of last season and the smallest but one since 1889, as the following figures will show.

| | Brls. salted. | Lbs. fresh or preserved. |
|-------|---------------|--------------------------|
| 1889 | 19,751 | 38,538 |
| 1890 | 23,139 | 32,928 |
| 1891 | | 6,000 |
| 1892. | 14,322 | 2,000 |
| 1893 | 10,851 | 751,850 |
| 1894 | 10,175 | 669,300 |
| 1895 | 5,907 | 575,350 |
| 1896, | | 1,318,917 |
| 1897 | | 1,606,091 |
| 1898 | | 1,547,178 |

As there has been a great change in the mode of marketing these fish, the refrigerators lately built having led to a large trade in fresh fish, it is somewhat difficult to arrive at a satisfactory conclusion from the foregoing figures as to the increase or decrease of the fishery, but assuming that 200 lbs. of fresh fish are equal to one barrel of salted, thus the figures in barrels would be as follows:

| 1889 | 19,964 |
|------|--------|
| 1890 | 23,304 |
| 1891 | 27,514 |
| 1892 | 14,332 |
| 1893 | 14,610 |
| 1894 | 13,522 |
| 1895 | 8,344 |
| 1896 | |
| 1897 | |
| 1898 | 9,828 |

LOBSTERS.

On the Atlantic coast of this district the catch was slightly better than that of last year; owing to the fact that during the fishing season the weather was more favourable than it was during the fishing season of last year.

In the waters of the Straits of Northumberland the fishing was not so good as last year, in the counties of Antigonish and Pictou, but in Cumberland county the catch was better.

Over the whole district the catch was about equal to that of last season, in the Straits of Northumberland, and I have noticed that when herring are abandoned there is a good catch of lobsters, and vice versa, and this season's results gives evidence in the same direction, for in Cumberland county herring were plentiful, and lobsters also, while in Pictou and Antigonish there was a shortage in both.

I have supposed that the herring being in abundance spawn in the spring months and as their spawn sinks to the bottom and attaches to rocks, weeds, &c., it is fed upon by the lobsters attracted by this bait and thus it leads to a larger catch.

The close season regulations were rigidly enforced during the season, a patrol steamer being employed and traps confiscated wherever found, and in this district there were about 940 found set in violation of law. Convictions were obtained where possible.

It was quite noticeable that whereas formerly the fishery officers found all of the fishermen in favour of fall fishing and against the enforcement of the season regulations that during the past season the disposition to violate the law was confined to a very small percentage and many of the fishermen were willing to assist the officers with information as to the location of illegal apparatus.

The future of this fishery will largely depend upon a strict observance of the season regulations, for the enforcement of any other restrictions is likely to involve too great an expenditure to be practicable. If, however the eggs of the female can be hatched in incubators at a reasonable outlay, I am of opinion that it should be done under the supervision of the department but the cost made a charge upon the industry.

Of course if the female can be kept in the water until the berries are hatched, such an expedient would be unnecessary, but when it is remembered that the eggs can be removed from a female, that this can be done in the boat where no one can inspect it, that the ten cents of to-day will in ninety-five cases out of a hundred be grasped by the fisherman rather than the chance that he or his neighbour may make a dollar in a year or two, then it would appear to be a wise course to purchase the eggs at a price that would ensure their coming into the control of the department, hatch them in incubators at or near the factories and restore them to the sea to take their chance of life. The cost of this incubator could be met by an increase in the license fee.

It seems to me that undue importance seems to be attached to the preservation of the fish to which the eggs are attached; as a matter of fact this female is not so important as an unberried female, because as the spawning process has recently occurred, it will be a longer time before she would arrive at that stage again than is likely to be the case with the unberried female.

During the past season nineteen summons have issued, and conviction obtained in twelve cases for violation of the Fisheries Act. Twelve nets were confiscated, being set in violation of law.

SYNOPSIS OF OVERSEERS' REPORTS.

Overseer A. R. McAdam, Antigonish County, says that in the early part of the season the catch of lobsters was large and promising but as the season advanced it dropped.

There was a good catch of hake especially in the western part of his division. Six nets which were set for trout were confiscated being in violation of law. The salmon fishery was better than it had been the previous year by about 10 per cent. A number of fishways are required in his division. The guardians are for the most part faithful to their trust and many of them take much interest in the work.

Oversecr Davison, Colchester County.—There was an increase in the catch of shad over any of the previous years for some time past. He thinks this increase partly due to the fine weather during the fishing season, which caused the fish to come to the surface and to the flats where they were taken in weirs. The fishermen who fished on the deeper waters did not do so well as they had done the previous season.

Although the catch was larger than for some years it is only about one quarter as much as those of fifteen or twenty years ago, and this is because there is no protection to the mother shad when in the rivers for the purpose of spawning. If they were protected there the fishery would be restored. He recommends a close season for shad from March 20 to June 20 in each year.

Overseer G. O. Smith, Cumberland County, says a number of nets were confiscated in his division, being set in violation of law, the names of the owners or persons who set them could not be discovered. Fish were more plentiful than last year, 90 per cent of the gaspereaux caught in the River Philip is by residents of Halifax County who came there in schooners. There are three fishways in his division which are considered in good order.

Overseer Angevine, Cumberland County, says the close season for salmon has been strictly observed, no cases of violation of law came to his knowledge.

Overseer Davis, Guysboro County, says that the results of the salmon fishery in his division shows an increase of about 10 per cent. The catch of codfish was 20 per cent larger than last year. There was an increase of about 65 per cent in the quantity of hake taken, while the haddock fishery returns show a decrease of about 35 per cent. There was a decrease in the herring fishery of about 50 per cent, and in that of mackerel of about 60 per cent. The yield of the lobster fishery was better than that of the previous year, about 7 per cent, attributable to finer weather during the fishing months. Owing to scarcity of bait in the fall months the cod and haddock fishing off Canso and in the Chedabucto Bay were not prosecuted as vigorously as would have been done had the bait been plentiful. Owing to the low prices which prevailed in the early part of the season the year has not been a prosperous one with the fishermen.

Overseer Alex. W. Reid, of Guysboro County, says that salmon were more plentiful in the St. Mary's River than last year, but in other waters of his division the catch was about the same. Summer herring did not appear west of Isaacs Harbour, but there were good catches of fall herring in some localities, these brought fair prices; about 25 per cent of this catch was salted for lobster bait. Cod were about as plentiful as lastyear, but owing to rough weather late in the fall the catch did not come up to that of last season. Lobster were more plentiful in some localities, from April 20 to May 31 the catch exceeded that of last year, but in the month of June very few were taken owing to their scarcity. The close season has been very well observed, only a very few cases of illegal fishing came to his notice but sufficient evidence to convict the parties could not be procured.

Good service was rendered by the patrol boat Active. Two salmon nets were seized by Guardian John A. Kirk, being set in violation of law, also a gaspereaux net at Stillwater, St. Marys. Several fishways are badly needed in his division.

Overseer Robert Gaston, of Halifax County, says there was a slight increase in the salmon fishery, also in lobsters, codfish, halibut and mackerel. A decrease in all other kinds. Sixteen cases of violation of the Fisheries Act were brought to his notice and summons issued against the parties. Eleven convictions were obtained. Three fishways in his division are in need of repair—the names of the owners of the dams being the subject of a special report.

Overseer Rowlings, of Musquodoboit, Halifax, reports that every vessel owned in his division which went to the North Bay returned with a full load of cod and haddock; and this accounts for the larger catch of these fish reported by him. The shore fishery was worse than last year. At West Chezzetcook, the largest fishing village in his division, nearly one-half of the boat fishermen were short of the quantity required to entitle them to a bounty although they fished for three or four months. Not nearly half the quantity of herring were caught as there was the previous year. Most of those reported in his statistical return were caught by vessels off Prince Edward Island. Mackerel were very

scarce. Lobsters more plentiful than last year, the shipments of live lobsters to Boston being nearly double that of any previous year. The law regarding the season for catching lobsters has been better observed than in any previous year; only in two places in his division did they try to pack; one of these, he thinks has been broken up entirely. The alewife fishery was a total failure; none were taken, neither at Chezzetcook nor at Lake Porter, where there are no sawdust and no dams, nor on rivers where there are such.

Overseer Pritchard, of Pictou, says that the run of salmon during the spawning season was about an average. The freshets were late, so that the fish did not enter the rivers as early as usual and poachers had limited time for operations. In accordance with instructions he had visited saw-mills in his division and warned the owners against allowing sawdust to drift into the streams. For a while they obeyed his instructions but later he found they were violating the law. He finds great difficulty in enforcing the size and sex limit in the lobsters regulations. With regard to Pictou Island, nothing but a resident fishery officer can prevent small lobsters being packed. He instituted proceedings against a packer for packing without a license, but he has left the country.

Overseer A. J. McDonald, of Pictou, says there was an increase in the catch of salmon. About three-fourths of the salmon taken in his division are exported to the United States. The mill-owners did not observe the law as regards dumping sawdust and mill refuse in the streams. Owing to heavy rains the rivers were kept full during the spawning season. Some persons were noticed fishing for salmon in October, but they escaped arrest and identification. One salmon net was seized for violence of the Fisheries Act.

Overseer Nathaniel Forbes, Pictou County, says neither the herring, mackerel or salmon fishery yielded an average catch. The cod fishery was better than former years, while the product of the lobster fishery was about the same as last year. Hearing that torches were seen in Sutherlands River he drove down frequently to see that the law was observed. One case of illegal fishing came to his knowledge, and upon the party confessing, he convicted him and fined him ten dollars, which was paid. No fishing apparatus was consficated. He visited all the mill-owners in his division, and found the law with respect to mill refuse duly observed. There is only one fishway in his division, which he found to be in good repair and kept clear of rubbish.

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

ROBERT HOCKIN,
Inspector of Fisheries...

DISTRICT No. 3. .

ANNUAL REPORT ON THE FISHERIES OF DISTRICT No. 3, BY INSPECTOR L. S. FORD.

MILTON, QUEEN'S Co., N.S., January 2, 1899

Hon. Sir L. H. DAVIES, K.C.M.G., Minister of Marine and Fisheries.

SIR,—I have the honour to submit my annual report for 1898, of the fisheries of District No. 3, Nova Scotia, comprising the counties of Lunenburg, Queen's, Shelburne, Yarmouth, Digby, Annapolis and King's. Tabulated returns showing kinds, quantities and values of fish caught, estimated values of material employed in the fisheries during the year are also inclosed.

The value of the catch shows a decrease as compared with the year 1897 of \$749,508.30.

| Total for | 1897 | \$5,453,957.85 |
|-----------|------|--------------------|
| " | 1898 | 4,704,449.55 |

This decrease is more apparent than real. The excessive reports from Digby, last year, were almost equal to the deficit of this season. More care has been taken with the present returns, and I have no doubt that they show a fair yield of the fishing industry for this year. Despite the fact that the figures show a decreased catch, I am of opinion that it has been, both as regards prices and catch, an average yield for the fishermen.

The several close seasons have been fairly observed, owing to the special care of the officers and special guardians.

COD.

The cod family is to the front as usual, haddock are being prepared into finnan haddies in large quantities, and shipped to the upper provinces as far as British Columbia. The county of Digby takes the lead in this business; but other counties are falling into line, and the prospects for a constantly increasing demand for finnan haddies is extremely good. One of the firms in Digby engaged in this business informed me they were obliged to import haddock from Gloucester, U.S., to fill all their orders.

MACKEREL.

There was a fair catch of this valuable fish this year in some counties, notably Yarmouth, but many of our harbours seem to be entirely deserted by them. Different reasons for this disappearance are extant, but I have no doubt that the wholesale destruction of the mackerel with large traps in the spring, while the fish are full of spawn and seeking their spawning grounds, is about the best theory. I think in the near future the growing scarcity of this valuable fish will force the attention of your department to devise some means of protection.

LOBSTERS.

This business proved quite as profitable as usual this season. It must be noted that the average catch is kept up by the increased number of traps, and the larger number of fishermen engaged in this industry.

It is both troublesome and expensive to protect these fish. There seems to be a determination on the part of many of the fishermen to violate the law as regards size limit and berried lobsters, and it requires the constant attention of our officers to prevent the wholesale destruction of this most valuable fishery.

As the commission appointed by the Government has gone so largely into this matter there seems no need for us to offer any suggestions in this report. We may hope for better regulations next season.

SALMON.

The catch of salmon depends so largely on atmospheric influences that it is difficult to tell from year to year the cause of its fluctuation. Even heavy rains in the spring will influence the extent of the catch, both of the salmon and the alewives or gaspereaux.

If the department is to retain control of the streams in this district, it will need to make an entire change in the regulations to suit many of them. They—the regulations—are obsolete and unworkable. I would be pleased to note the changes needed on each river and submit them to the department for their opinion or approval if I am required to do so.

We have fair fish-passes in most of the dams on the rivers and the fish ascend, when allowed to do so to their spawning grounds, but the mill-owners claim the water the most of the time, and there is considerable friction in consequence, but there is really no need of dispute, a judicious arrangement for a pass cared for as it may be, will reconcile both interests. I have had but little trouble in this direction the past year, and anticipate less for the future if the regulations can be arranged to meet the requirements of each case.

TROUT.

It is doubtful if the overseers ever get a fair estimate of the trout caught. Sportsmen at all times and seasons frequent the lakes and rivers, and it is impossible to arrive at their catch. As they are almost entirely used for home consumption, any accurate statement does not appear possible. There seems to be plenty of these fish in most of the rivers they frequent, and any regulations affecting salmon and alewives will protect this valuable fish as well.

HERRING.

This fish, like the mackerel, seems to have deserted some of the harbours where they were once plentiful. They are a valuable fish, both for home consumption and export, and enter largely into the revenues of most every fisherman. The cause of this falling off is difficult to determine. Storms are apt to keep them off shore, but there were storms at sea when herring were plentiful in those harbours. Scarcity of herring also means scarcity of bait for cod, and consequently the shore fishery fails to some extent.

Cold storage for bait, will meet a want long felt by tishermen. The scarcity of fresh bait is a factor that more affects the catch of fish, particularly the shore fishery, than any other. To be able to secure within a reasonable distance at all times fresh bait, will, without doubt, be of great assistance. It only remains to devise some means to make the immense schools of dog-fish that infest our coast, of some commercial value, to greatly improve the fisherman's condition.

The overseers generally report a good year's fishing in all its branches, and that in most all localities the law has been well observed.

I am, sir, your obedient servant,

L. S. FORD, Inspector of Fisheries, District No. 3.

STATISTICS OF FISHERIES FOR NOVA SCOTIA

1898

NOVA SCOTIA-District No. 1.

RETURN Showing the Number, Tonnage and Value of Vessels and Boats, and the Quantity and Value of all Fishing Materials, Number of Men and the Kinds and Quantities of Fish and Fish Products in the Island and District of Cape Breton, Province of Nova Scotia, for the Year 1898.

| | | | | | | | | | | | 63 | 3 1 | /IC | 1 (| JHI | Α, | A. 19 |
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| | in shell, | Lobsters, fresh | | | : | : | | | | Ş | | : | : : | : | : | | 000 |
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| Fishing Gear or Materials. | | λ | ** | 1000 | <u> </u> | 10.5 | 230 | 625 | 3 (2 | 2430 | 2450 | 3550 | 2 2 2 3 2 2 3 2 2 3 | 685 | 000° | 1270 | 96594 |
| MAT | Gill Nets | Fathons. | | 2020 | 1500 | 0003 | 023 | 9 | | 5775 | 8 S S S S | 7550 | 5 5 5 7 7 7 7 | 1885 | 0099 | 3040 | 62172 |
| <u></u> | 3 | лэдиту | | 101 | 315 | 26 | 3 15 | \$ | 3 % | 25 | 320 | 300 | 115 35 | 33 | 9 9 9 | 55 | 1296 |
| ź | † i | Men. | | 6 6 | 3 | 9 9 | Ç | <u>4</u> : | ç <u>9</u> | 240 | ; e | 136 | # 6 | jα | 120 7.6 | 37 | 130.5 |
| Fibhing Vessels and Boats | Boats. | .∍mlaV | ¥. | 1020 | 335 | 27.5 | | 99. | 0.30 17.3 | 1725 | | 955 | 9 4 4 | 4 | 150 | 266 | 122081 |
| S AN | | Number. | | ន្ទ | 3 | 8 | 7 % | 8 | 1 7 | \$ 3 | 3 62 | | Ļά | 7 | 48 | ÷ ; | 31 |
| SEL | | Жеп. | | :15 | - : | : | : | : : : 8 | ₹ . | | + | H | ı - e | | 9 | : : | |
| · VB | sels. | $\Lambda_{ m slue}.$ | 360 | Ş | § : | : | : | : | ê | | S : | Ş | <u> </u> | Ì : | 900 | | 3525 67 |
| SHIN | Vessels | Tonnage. | | ğ | 2 : | : | : | : : | . | | 2 | 7 | 3 5 | 1 | 51 | : : | 165 |
| Ξ |] | Number. | | : - | - | _: | | | + | : :• | - | ec | - - | | | : | 121_ |
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| | | Number | | | 71 CC | 4 | co e | ⊅ t~ | တင | .5 | === | 13 | 14 | 3 5 | 17 | 22 | |

* Nore - In No. 10 include 1 seine (330 fathoms) valued at \$750.

SESSIONAL PAPER No. 11a

Number

TOTAL VALUE OF 2282828282828282828 2 ALL FISH. Seal skins, No. 12618 8206 1745 45 40 Fish Products. Fish as manure, brls. Fish as bait, brls. Fish oil, galls. RETURN showing the Quantity and Value of Fish, &c. -Nova Scotia-Continued. 2000 2000 2000 2000 2000 Coarse and mixed fish, 174 Squid, bills. Tom cod or frost fish, 189 2500 Flounders, lbs. Rels, brls. 8 Aleuives or gaspereau, 13000 Smelts, lbs. KINDS OF FISH. Shad, bris. 38 Trout, lbs. \$500 \$500 \$000 \$000 50075 Halibut, lbs. Z 8 Pollock, ewt. Ŧ Hake, dried, ewt. +8×8;8 22823 10680 1787 Haddock, dried, ewt. 8888 Haddock, fresh, lbs. œ sounds, bris. sən.Buor 13104 Cod, dried, ewt. East Bay, Eskasoni and Middle Cape. Little Bras d'Or. Big and Little Pond and Sydney Mines North Sydney to Ball's Creek. George's River to Beavers Cove. Grand Narrows and Christmas Island. 11 Louisburg and Kennington Cove.
12 Big Lorraine
13 Man.-a-Dieu.
14 Little Lorraine
15 Baulieu and Mira River. Cape Breton County. Wadden's Cove and Black Brook Port Morien and Round Island Glace Bay and Schooner Pond. Sydney Forks and South Bar Gabarus and Grand Mira. Scatterie Island. Number.

RETURN Showing the Number, Tonnage and Value of Vessels and Boats and the Quantity and Value of all Fishing Materials, &c.—NOVA Scotia—Continued.

| | Fisi | HING | V RSSE | LS AN | FISHING VESSELS AND BOATS | <u>ż</u> | • | FISHING GEAR OR MATERIALS. | G GEAL ERIALS | 4 OR . | | | | | KINDS OF | S OF | Fish. | | | |
|----------------------------------------|---------------------|----------|------------|------------|---------------------------|-------------|------------|-------------------------------|------------------|---------|---------------------|---------------|-----------------------------------------|----------------------|-------------|--------------------|-------------------------------|--------------|-------------------|---------------------------|
| Dismortons | _ | Vessels. | | | Boats. | - | . <u> </u> | (fill Nets. | ż | Trawls. | | | selv. | | sp: | resh, | fted, | sdl ,s | cn.t. | bns. |
| | Zumber. Tonnage. | Value. | Меп, | Zumber. | Value. | Меп. | Number. | Fathoms. | Value, | Zumber. | Value. | .sdl | Salmon, pre ed in cans salmon, sa | brls, sa Herring, sa | erring, fre | рв. Удекетеј, f | lbs. Mackerel, sa brls. | Lobsters, pr | Cod, dried, | Sod tongues od 'sbunos |
| Inverness County. | | 36. | | | 00 | | <u> </u> | | os: | | 96 | | | <u> </u> | <u> </u> | <u> </u> | <u> </u> | | _ | |
| *1 Port Hood. | -= | 18 500 | | 5 | 1600 | 150 | 330 | 10000 | 3600 | _ | | | ~ | - - - | | _ ` | ¥ • | 44136 | 1800 | |
| 2 Little Mabou | : | : | : | 8 | 200 | 3 | 9 | 1200 | 360 | 25 | 120 | | | - | 96 | 2500 10 | 100 | | 300 | : |
| 3 Seaside | : -: | -: | : | e : | 180 | ≈ | e : | 2200 | 00.5 | | <u> </u> | : 8 | : | = 8 | • | | 9. | 19200 | <u>6</u> 1 | : |
| Julione author. | :- | : | : | 3 5 | 000 | * \$ | 2 5 | 000 | 5 5 | | 2 3 | 200 | - | N - | •• | | 29 | 00000 | 3 5 | : |
| 6 Long Point | : : | : - | : | G 8 | 39 | 2 23 | 3 3 | | 3 5 | | : 2 9 | 000 | <u>:</u> - | 14 | | | | 10948 | 55. | : |
| 7 Creignish | : : | : : | | 2 | 240 | 7 | 8 | 300 | 90 | | 3 | 2000 | : : | 4 | | | | • | 2 | |
| low Point | : ; | | : ; | લ | 000 | 3 | £ | 2500 | 00x | •• | | _;_ : | - <u>:</u> : | 8 | | • | 0 10 | | 125 | : |
| Fort Hastings. | Ĭ. | | - | 2 | 08 | 9 ? | 9 | 981 | 000 | | : ' | • | · : | ₹ | | ٠. | | | 130 | : |
| 11 West Boy and Malaconstate. | ა <u>ლ</u> — | 83 3900 | 33 | 28 | 900 | 2 8 | 900 | 900 | 900 | | | 300 | : | ਲ : | ŧ | • | id. | : | 999 | : |
| 2 North and South Bosin Direct Direct | <u>:</u> : | : | : | 3 = | 200 | 3 0 | 187 | 0220 | | | 2 6 | <u>:</u> | : | ° | 3 7 | : 3 8 | : | : | 130 130 130 | : |
| 3 Mahou Har Coal Mines & Beinn Virrach | : | : | | ‡3 | 010 | 9 = | 2 6 | 3 5 | 920 | | : हे ड | 3 | : | - c - | ≃ | : 3 | | 90886 | 000 | 71 |
| 4 Broad Cove | : :- | | : |]= | 200 | 8 | 32 | 2 8 | 3.5 | | 3 6 | 3 | : } | : | | : | | 0000 | 99 | : |
| 5 Whycocomagh | | | | óc | 112 | 19 | 2 | 550 | 011 | | : | 007 | : | : | | : | | | 19 | : |
| 16 Scottsville and East Lake Ainslie. | | | | 7 | 32 | œ | ဗ | 150 | 3 | | - | | | | | | | | | |
| Margaree Harbour and River. | 31 | 3 210 | Ξ | ž | 1381 | 260 | 148 | 4160 | 2230 | | ¥ 89 | *118 | 200 | 20 18 | 0 | 07 | 8 | | 2100 | : |
| 8 Whale Cove and Chinney Corner. | - : | -: | : | 16 | 248 | 68 | 50 | 9000 | 0963 | 3 | 100 | 2900 | | 30 | | | S . | 1176 | 218 | |
| 19 Margaree Island | : | - | | 19 | 285 | :3 | 93 | 3365 | 3000 | • | 8 | - | - | - oc | 0 | | 2 | | 510 | |
| 20 Broad Cove Marsh and Port Ban. | | | | 30 | 367 | 115 | 29 | 38:00 | 2800 | | 9 | | | | | : | 7.5 | | 107 | : |
| Mabou Harbour, North Side | | | | 100 | 300 | 33 | 6 | 3210 | 1500 | | 3 | : | : - : | : [| : : | : | 5 | | 397 | : |
| Frand Etang | | | | 30 | 086 | 8 | E | 9 | 0.00 | | : . | ٠ <u>چ</u> | : : | : 04 | | : | 18 | 91456 | 38 | |
| 23 Friar's Head | | | | 20 | 200 | 20 | 200 | 1000 | 900 | : : | : | 99 | | | | : | 100 | ٠. | 0.00 | : |
| 24 Doucett's Cove | | | | ş | 55.0 | 25 | 9 | 1200 | 9 | | | 000 | - | 7 | | | | | 000 | : |
| 25 Meat Cove and Fishing Cove. | | | | 35 | 3 | 64 | 9 | 000 | 122 | | | | 6. | 10 | | | : | | 9 | : : |
| Peasant Bay and Pollett's Cove. | - | | | ઢાં | £5; | ž | ς. | 9 | 122 | | : : : | _ | 270 | - | | | 475 | | 8 | |
| 27 Eastern Harbour | 19 231 | 1 2500 | 2 2 | 3 | 0009 | 225 | 37 | 895 | 235 | | 50 | 000 | 8 | 200 | ے | 55. | 500 | 22368 | 0009 | _ |
| 28 Cheticamp Point and Lake | = | | 7 | 55 | 2200 | 216 | 53 | 1350 | 470 | - | | 500 | <u>:</u> : | 330 | 0 | 850 | | | 2560 | _ |
| Cape Rouge | : | : | : | <u>.</u> 6 | 250 | Z | È | 380 | 100 | : | | 300 | <u>:</u> : | . 10 | 0 | ≈ ∷ | | | 909 | |
| 1-9 | 1 3 | 1000 | 1 | | 1000 | | | 0.00 | | - | | | | | | ĺ | Ī | | - | |

SESSIONAL PAPER No. 11a

| Tve contractors | | | | | K | KINDS OF | Fish. | Ħ. | | | | | | F1 PROD | Fish Products. | | | |
|-------------------------------------------|---------------------------------|------------------------|------------------------|-------------------|----------------------------------------------------------------------------------------------------|----------------|------------------------------------|------------|-------------|----------------|--------------------------------|--------------|--------------|----------------------------------------------------|-------------------|----------|----------------------------------------|---------------|
| DISTRICTS. | Haddock, fresh, lbs. | cwt. Hake, dried, cwt. | Hake sounds, | Halibut, Ibs. | Trout, lbs. | Smelts, lbs. | Alewives or gas- pereaux, bris. | Bass, Ibs. | Eels, brls. | Oysters, brls. | Tom cod or frost fish, lbs. | Squid, brls. | fish, bris. | Fish oil, galls. | brls. | brls. | TOTAL VALUE OF ALL FISH. | 7 9 H |
| Inverness County. | | <u> </u> | | | | | | | | | | | 1 | <u> </u> | | | æ | |
| 1 Port Hood | 1000 2008 | 500 122 | 2200 40 | 400 200 40 200 | 900 | 300 | 8.5 | | 23 | : : | :: | | | 998 | <u>8</u> | 82 | 25,600 2,130 | 980 |
| 2 Divoir Machan. | | | | 2 67 | 3 | | | | 0 | | | 10 | | 9 | 8 | 8 | 6,05 | <u>ت</u> |
| Little Judique | | | : 8 | <u>:</u> | 900 | | | : | 10 5 | <u>:</u> | : | 8 : | : | ର୍ | 8 | 8 6 | e) a | 5÷ |
| 5.) udique | 88 | នន | : સ્2 | <u>:</u> | - 1 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 | | | : | 3 ∶ | : : | : | 3 10 | : : | 2 2 | 3 (3 | : ::2 | | |
| eignish | 2 2 2 3 | | | | 100 | | | | | | | x | : : | 8 | 3 | 2 | 3,10 | 7 |
| S Low Point | 200 | : 8 | <u>:</u> | : | 200 | | | : | : | : | : | <u>.</u> | - | <u></u> | 25 | 2: | 46 | 36 |
| 9 Port Hastings | 2 2 2 3 3 3 3 | : 23 : | : :- | : | <u> </u> | | | : | æ .: | : | : | G (| : | - = = = = = = = = = = = = = = = = = = = | ⊋ ⊊ | 3 5 | 8 8 2 1 2 1 2 1 3 1 5 1 | ಶ ತ - ೧ |
| 10 Fort Hawkesbury | 3 | 2 | : | : | | | | : | : <u>x</u> | : | | i | : | 36 | 3 2 | 2 | , x, | i i |
| 11 west hay and malagawatch. | : | : | : : | : | | | 12 | | 3 | 17.5 | 9 | - | : : | § ≅ , | != | | , 20, 20, | ă. |
| abou Harbour, Coal Mines and Beim Virrach | | : :18 | 3 | 80 15 | | | | 150 | 2 | : | | 2 | : | 180 | 100 | : | 6,39 | ক: |
| 4 Broad Cove | : | 13 | : 9 |)음 | 200 | 0000 | : | | | | : | • | - :- | 8 | ⊋: | | 1,10 | io i |
| 15 Whycocomagh | | • | : | <u>:</u> | 001 | • | | : | 2 € | 7 | <u>:</u> : | : | | _ | <u>.</u> | :- | 2 2 | ನ ತ |
| ottsville and East Lake Ainslic | : | : " | : | 2 | = | | 3 5 | : | 3 5 | : | · | | | | · • | ÷ | 9,50 | 5 6 |
| Margaree Harbour and Kiver | • | | | | | | | : | 1 | : | : | 2 7 | 3 6 | | 2 2 | 3 = | 500 | <u>ت</u> ~ |
| 18 Whale Cove and Chimney Corner | : | e e |) X | | : | : | | <u>:</u> | : | : | : | 5 | 18 | 8 | 9 | | 20 | , <u>~</u> |
| Day Day of Mark and Day Day | : | | , | | | | - | : | - | : | : | : 2 | Ι. | | - | <u>*</u> | (S) | ₹ |
| Milytopon Honlow North Sida | : | | - | | : 15 | 2 | : " | : | 100 | : | | 8 | 3 | | 8 | 9 | 2,52 | i- |
| about marketing roller parters | : | | | | | | | | | | | 00 | | | 900 | : | 15,89 | ~ |
| 93 Wrige's Hoad | | | -04 | | | | | | | | | 300 | <u>-</u> | | 100 | | 7,10 | 5 |
| 24 Donoett's Cove | | | 3 | - | | | : | : | : | • | <u> </u> | 500 | | | 22 4 | : | × 50 | ī. |
| 25 Meat Bay and Fishing Cove | : | : | : | : | - | : | | : | : | : | : | : | : | 3 | 00 03 | : | , 90, | යි. ල |
| 26 Pleasant Bay and Pollett's Cove | : | | -: | : -: | : | : | : | | : ; | : | -: | | | | 9 | : | 13,70 | 35 è |
| 27 Eastern Harbour. | : | | : 81 | 8 | 1000 | 96 66 66 | : | : | 8 | : | -1 | | 38 | | 9 | <u> </u> | 96,99 | <u>خ</u> ک |
| 28 Cheticamp Point and Lake. | : | 2 2 3 | <u>:</u> ઉ <u>દ</u> | 38 - | | | : : | : : | S 1C | : : | : : | 2 8 | 38 | 308 | | : : | 10,266 | 4 Ø |
| | - | - 1 | | | | | Ī | | 1 | İ | | 1 | | | • | 1 | | |

RETURN showing the Number, Tonnage and Value of Vessels and Boats and the Quantity of Fish, &c.—Nova Scotia—Con.

| | | Zmuper: | | _ | 31 | ಲ . | -j-): | : : | ٠. | x | တင့် | 3= | 3 | 12 | ‡ | |
|-------------------------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--------|-----------------------------------------------------------------|-----------------------------|--------------------------------------|----------------|----------------------------------------|-----------------------------|---------------------------------|----------------|----------------------------------------|----------------------------------------------|-----------|-------------------|
| | | Cod, dried, ewt | | 1958 | | | ••• | | 3 |); (2) | 4 5 | 3000 | 35 | 3650 13 | 900 | 552 22175 |
| | ,llədə ni | Lobsters, fresh ewt. | | % % | _ | | ž | : | : : | : | : | : : | | | : | |
| | ni bəvr | Lobsters, presecans, lbs. | | 45792 | +1208 | 13632 | : | 92020 | 70000 | : | : | 89532 | | | | 868530 |
| Firh. | d, brls. | Mackerel, salte | | 335 | 7. | C | \$ | : | | Ŧ | 86 168 | 415 | 05% | <u> </u> | 910 | 4265 |
| KINDS OF FISH | .sdf , | Mackerel, fresh | | : | : | : | : | : | | | | 275 | | 24000 | 1615 | 25890 4265 368530 |
| Kind | lbs, | Herring, fresh, | | : | : | : | | : | | | | 3000 | 5 | 14000 | 7000 | 25100 |
| | , stid , | Herring, salted | | 2134 | 2893 | 999 | 113 | | 257 | 5000 | 1200 | § § | 00.2 | 000 000 000 000 000 | 1150 | 16132 |
| | brls. | Salmon, salted, | | : | | : | : | -:- :: | : : | : : | : | : | | 10 | : | 12 |
| | .sdl | Salmon, fresh, | | 180 | | E | | : | : : | | : | | COO | 250 1500 10 | | 2480 3840 10 |
| | * ly. | ·ənlıç. | Œ. | 99, | | 131 | | : | 24 | i : | | ⊋ E | | | | 2480 |
| ë . | Trawls | Zumber. | | 250 | 37.4 | 8 | 21 | : | . x | : | , | <u> </u> | - t | - 50 | - | 792 |
| hing Gear Materials | zi | Λ alue. | 36 | 1890 | 8720 | 2280 | 2456 | 200 | 3 (5 | Ξ | [| 200 | | 21400 | 3050 | 69452 |
| Fishing Gear or Materials. | Hill Nets | Fathoms. | | 24480 | 348 | 9120 | 17280 | 2000 | 200 | 20400 | 18000 | 5875 | 2 | 93:00 | 8875 5 | 12230 265488 |
| | . . | Zamber. | | 13.4 | 17.44 | 907 | 798 | 3.5 | 5 15 | 1400 | 906 | 0.540 0.770 | i | 9 | 355 | 12230 |
| zi. | | Men. | | 27 | 305 | Ξ | 141 | 2 3 | - - - | 200 | 155 | 37 | 2 | † 19 19 19 | 130 | 2473 |
| ь Воат | Boats. | Value. | X. | 1392 | 1740 | 9 | <u>,</u> | 0+1 | | 1380 | 906 | £ 5 | 100 | 965 | 1350 | 22157 |
| ANT A | - | Zumber. | | 174 | 219 | œ. | £ . | ≘; | જે જે | 146 | 8.9 | 2 % | 3 | ê | 35 | 296 1422 |
| SSEL | | Men. | | 57 | 11 | : | 2 | 2 2 | Ž | 22 | 49 | : | : | : <u>\$</u> | · • | |
| FISHING VESSELS AND BOATS | Vessels. | .onla.7 | × | 1400 | 0(3 | : | 3500 | 9081 | 1202 | 2000 | 2400 | : | : | 002 | 005 | 12 |
| ıHsı, | > | . эхвипоТ | | 53 | 16 | | 55 | 3 | i Si | 124 | 312 | : | : | : 8 | | 17 1356 |
| 724 | | Σ ump Σ | | 1- | ಣ | : | 1 ~ | 7 9 | = | ,c | æ | <u>:</u> | : | <u>.</u> | _ | 15 |
| | Descriptions | . Constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the constitution of the cons | Richmond County. | : | 2 Cape Auguet, West Arichat, Port Royal and Janyrin's Island | Rocky Bay and Care Le Rond. | Descousse, Poulamond and Martinique. | öSt. Peter's. | 6 Kiver Bourgeoise | River Inhabitants and Basin | 9 Port Malcolm and Gut of Canso | West Bay | 12 L'Archevêque, Grand River and Point | Michael 1.1 Andries 1.2 Andries and Borbdale | | Totals. |
| | | Number. | 1 | == | 31 | ** | + | 10 | <u>ت</u> ت | - 00 | 6 | 2; | 121 | - 6 | 37 | |

SESSIONAL PAPER No. 11a

| | - Number | | | 01004100 | | | 13.12 | Ξ |
|----------------|-----------------------------------------|------------------|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|---------------------------------------------------------|
| | TOTAL VALUE ALL FISH. | . cts. | 42,650 06 | 38,422 25 11,097 40 32,663 50 4,980 00 | | | 25,182 40 77,849 45 | 22,292 00 |
| | Seal skins, No. | | 180° 2 | 25.50 3.50 3.50 3.50 3.50 3.50 3.50 3.50 | : ::: 3888 | : : : : : : : | 67 260 | 120 |
| | Fish as bait, brls. | | | | · | | | 875 15 |
| | Fish oil, galls. | | 2000 | 868 868 868 868 868 868 868 868 868 868 | 2285 | 1320 | 3000 3000 | |
| | Coarse and mixed fish, brls. | | 242 | 275 154 200 | | : :8 | 11 0 | \$: |
| | Squid, birls. | | 75 | 5,0 % : | : : : | 313 | 230 | 31 |
| | Tom cod or trost fish, | | : | | | 7000 | 2150 3580 | 3300 |
| | Flounders, lbs. | | 3100 | 7500 17100 73100 | | 18000 | 8000 5800 | 3100 |
| ي | Rels, brls. | | 7.5 | 355 | :82 | :28 | <u>:</u> 2 | ži |
| Kinds of Fish. | Alewives or gas- pereaux, brls. | | 15 | 182 187 187 | ~ 52 58 54 58 54 58 58 58 58 58 58 58 58 58 58 58 58 58 | g : 3 | 8,5 | 43 |
| 8 90 8 | Smelts, lbs. | | : | : : : : | 4200 | | · · · · · · · · · · · · · · · · · · · | 1200 |
| Çĸi | Trout, lbs. | | : | : : : : | | : :008 | 90 jg | 2100 |
| * | Halibut, lbs. | | 670 | 1060 | | 6750 | 2450 8000 | 5000 2100 1200 |
| | Pollock, cwt. | | 326 | 102 102 41 | | 115 | 88 | 8. |
| | Hake sounds, Ibs. | | 18. | 75 112 211 | | 066 | 88 | ફ |
| | Hake, dried, cwt. | | 202 | 845 | | 130 | 818 | 35 |
| | Haddock, smoked finnan haddies, lbs. | | 9311 | | : : : | | : : | |
| | Haddock, dried, cwt. | | 2073 | 1980 263 190 190 | 222 | 3 12 | 98 0551 | |
| | Haddock, fresh, lbs. | | | | | 3400 | 1900 | 1500 |
| | Cod tongues and sounds, brls. | | | ဘ္ကလ (| | 21 | 71 | |
| | Districts. | Richmond County. | 1 Arichat and Petit de Grat | 2 Cape August, West Arichat, Port Royal and Janvrin's Island. 3 Rocky Bay and Cape Le Rond. 4 Descouse, Poulamond and Martinique. 5 St. Porter's. | 6 River Bourgeoise 7 Grandique Ferry and Port St. Louis. 8 River Inhabitants and Basin. | 9 Port Malcolm and Gut of Canso 10 West Bay. 11 Fourchi, Framkojse and St. Esprit. | [2] L'Archevêque, Grand River and Point Michaud Michaud L'Ardoise L'Ardoise and Rockdale. | 14 Grand Greve, Indian Reserve and St. D. D. Park, Fast |

63 VICTORIA, A. 1900

| | | | Zumber. | | 01 m = | + 10 to 1 | - x s | 8 0 0 0 11 0 | 3 E = | 122 | |
|----------------------------------------------------------------------------------------------------------------|----------------------------------------|----------------|-----------------------|------------------|--------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|--------------------|
| on. | 1 | d, brls. | Mackerel, salte | | 285 130 130 | . w | 39 c | သင္ဘင | ŝ : | | 812 |
| a —C | | lbs. | Herring, fresh, | | | | | | 31900 | 2500 | 44750 |
| oti | KINDS OF FISH. | brls. | Herring, salted, | | 114 5 62 | 323 | 394 182 | 4.68 | 181 275 | 33 | 1933 |
| ထိ | NDS | brls. | Salmon, salted, | | _e ; e | : 61 61 | 8 7 | : : : | • : | | <u>6</u> |
| √a | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | ui bəv | Salmon, preser | | 3650 1293 2600 | ± : : | | 5 | 3 : | | 8187 |
| Ž, | |] | Salmon, fresh, l | | - 17.1 | | | | 1450 3800 | 1050 | 9300 |
| ۲ ۲ | | <u>x</u> | Value. | œ | | | 25 E | | 197 | 333 | 206 2143 6300 8187 |
| sh, e | TALS | Trawls. | No. | | : ::::: | - 3 | 8 4 1- | : : | 6 1 7 | · ∞ !~ | 905 |
| f Fi | ATER | Trap Nets. | Value. | ¥; | | | :₫ : | : : | | | <u></u> |
| ty o | R M | FZ | No. | | | | :01 | | | | 27 |
| ıanti | EAR O | ż | Value. | œ. | 285 284 284 385 385 385 385 385 385 385 385 385 385 | | | | | | 10527 |
| <u>ن</u> ق | Pishing Gear or Materials. | Gill Nets | Fathoms. | | 2920 1360 1360 | 2503 2508 | 1716 208 3243 | 1078 1120 | 25 25 25 25 25 25 25 25 25 25 25 25 25 2 | 950 520 | 29817 |
| nd th | Fisi | Œ | .oN | | 848 848 838 848 838 | <u> </u> | £23,8 | 2 2 2 | 5 2 8 | 48 | 1189 |
| oats a | | | Меп. | | 75 88 5 | <u> </u> | 584 584 | 4 % € | £ 25 € | 15 | 866 |
| und B | 30ATS. | Boats. | Value. | 96· | 1495 314 676 | 2080 180 180 180 180 180 180 180 180 180 | 583 883 | 858 | 631 | 7 12 12 13 13 13 13 13 13 13 13 13 13 13 13 13 | 12305 |
| sels s | . AND | | Valne. Men. No. | | 8888 | S c. 5% | 8 2 8 8 2 8 | 278 | 382 | 2,5 | 545 |
| Ves | SEELS | | | | ຕ : : | 12 | : : : | : : | · 60 | : : | <u>x</u> |
| lue of | FISHING VESSELS AND BOATS | 2 | | æ | 200 | 2000 | | | 100 | | 0081 |
| Va | F18.H | Vessels | . Топпаде. | | 22 : : | 62 | | | 28 | | & |
| and | | | No. | | ==: | - | | :-:- | | · · | <u>ا</u> ده |
| age . | | | | | | | | | | | ! |
| RETURN showing the Number, Tonnage and Value of Vessels and Boats and the Quantity of Fish, &cNova Scotia-Com. | | Dismonst | | Victoria County. | 1 Dingwall, White Point and Sugar Loaf 2 Money Point and Sparling's Brook. 3 Bay St. Lawrence and Wreck Cove | South Point and Green Cove. | 7 Noutn Bay 8 Englishtown 9 Big Bras d'Or | 10 Fel Cove and Barachois 11 Indian Brook, Little River and Breton Cove. 10 Ferral Price, Wassle Royer and Breton Cove. | | 15 Big Harbour, Boularderie and Red Head 16 North Side, Little Narrows. | Totalk |
| i | | | Number. | | | i- ki, 129 l | .~ 3 0 € | ##£ | 127 | 122 | |

RETURN showing the Quantity and Value of Fish, &c.—Nova Scotia.—Con.

SESSIONAL PAPER No. 11a

| | Zumber. | :: | - 1 | 8 | | | | |
|----------------|-------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--|--|--|--|
| | TOTAL VALUE OF ALL FISH. | x 2 5 | 11,036 12,837 12,036 13,046 11,079 14,831 16,08 17,887 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18,987 18, | 98,013 | | | | |
| | Seal skins, No. | | iii iii ii ii ii ii ii ii ii ii ii ii i | 3 225 | | | | |
| | Fish as bait, bris. | | 88 98 98 98 98 98 98 98 98 98 98 98 98 9 | 2308 | | | | |
| | Fish oil, galls. | | 25 25 25 25 25 25 25 25 25 25 25 25 25 2 | 5488 | | | | |
| | Coarse and mixed fish, brls. | | S=41% e.je | 2 10g | | | | |
| | Strd, brids. | | | 96- 00 | | | | |
| | Tom cod or frost fish, | | 1600 | 2000 | | | | |
| Ħ. | Flounders, Ibs. | | 9, | 006 | | | | |
| F Fir | Oysters, brls. | | 21020 | 7 125 | | | | |
| Kinds of Fish. | Alewives or gas- pereaux, bris. | | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 48 57 | | | | |
| × | Smelts, lbs. | | 700 | 1900 | | | | |
| | Trout, lbs. | | 909 | 99 | | | | |
| | Halibut, lbs. | | 40 20 4500 | 54 52 4500 | | | | |
| | Pollock, cwt. | | 0 30 7 5 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | 22 | | | | |
| | Haddock, dried, cwt. Hake, dried, cwt. | | 21 21 175 175 175 175 175 175 175 175 175 17 | 1329 | | | | |
| | Cod, dried, ewt. | 708 6173 7273 7273 7273 7273 7273 7273 7273 7 | | | | | | |
| | Lobsters, preserved in cans, lbs. | | 7104 17184 2722 22704 3732 10800 19600 19680 1974 22944 13272 | 134516 | | | | |
| | Districts. | Victoria County. | 1 Dingwall, White Point and Sugar Loaf 2 Money Point and Sparling's Brook 3 Bay Sk. Lawrence and Wreck Cove 4 New Haven and Neil's Harbour 5 South Point and Green Cove 6 North Ingonish 7 South Bay 8 Englishtown 9 Big Bras d'Or 11 Indian Brook, Little River and Breton Cove 12 French River, Wreck Cove and Path End 13 South Side Little Narrows to Iona 14 Baddeck and Baddeck Bay 15 Big Harbour, Boularderir and Red Head 16 North Side Little Narrows | Totals | | | | |
| | i | | | | | | | |

RECAPITULATION

 O_F the Yield and Value of the Fisheries for the Island of Cape Breton, for the Year 1898.

| Kinds of Fish. | Quantity. | Rate. | Value. |
|----------------------------------------------|-----------------|--------------|---------------------|
| | | \$ ets. | * ets. |
| Salmon, fresh | 116,272 | 0.20 | 23,254 40 |
| do preserved | 11,048 | 0 15 | 1,657 20 |
| do pickled Brls. | 330 | 15 00 | 4,950 00 |
| Herring, pickled do | 30,599 | 4 00 | 122,396 00 |
| do fresh or frozen Lbs. | 1,025,950 | 0 01 | 10,259 50 |
| do smoked do | 1,000 | 0 02 | 20 00 |
| Mackerel, fresh | 31,202 | 0 12 | 3,744 24 |
| do pickled Brls. | 13,229 | 15 00 | 198,435 00 |
| Lobsters, preserved Lbs. | 1,175,610 | 0 20 | 235,122 00 |
| do fresh in sheil Cwt. | 4,552 | 5 00 | 22,760 00 |
| Cod, drieddo | 62,616 | 4 00 | 250,464 00 |
| do tongues and sounds Brls. | 122 | 10 00 | 1,220 00 |
| Haddock, fresh Lbs. | 25,180 | 0 03 | 755 40 |
| do dried Cwt. do smoked finnan haddies. Lbs. | 13,055 9,311 | 3 00 0 06 | 39,165 00 558 66 |
| | 4.070 | 2 25 | 9.157 50 |
| Hake, dried Cwt. do sounds Lbs. | 1,463 | 0 50 | 731 50 |
| Pollock Cwt. | 1,405 | 2 00 | 3,774 00 |
| T 1 | 111,778 | 0 10 | 11.177 80 |
| Halibut. Lbs. Trout do | 25.725 | 0 10 | 2,572 50 |
| Shad. Brls. | 3 | 10 00 | 30 00 |
| Sinelts Lbs. | 52,598 | 0 05 | 2,629 90 |
| Alewives Brls. | 3,341 | 4 00 | 13,364 00 |
| Bass Lbs. | 150 | 0 10 | 15 00 |
| Eels. Brls. | 876 | 10 00 | 8,760 00 |
| Ovstersdo | 312 | 4 00 | 1,248 00 |
| Flounders Lbs. | 138,400 | 0.05 | 6,920 00 |
| Tom cods or frost fishdo | 18,830 | 0 05 | 941 50 |
| Sauid Brls. | 4,400 | 4 00 | 17,600 00 |
| Coarse and mixed fish do | 15,498 | 2 00 | 30,996 00 |
| Fish oil | 43,137 | 0 30 | 12,941 10 |
| Fish as bait Brls. | 15,407 | 1 50 | 23,110 50 |
| Fish as manure do | 307 | 0.50 | 153 50 |
| Seal skins No. | 281 | 1 25 | 351 25 |
| | | | 1,061,235 45 |
| do 1897 | | | 1.056,115 83 |

RECAPITULATION

Showing the Number and Value of Fishing Vessels, Boats, Nets, &c., in the District No. 1 of Nova Scotia, for the Year 1898.

| | Value. | | Total. | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------|-------------------|------|
| | * | ets. | \$ | ets. |
| 90 vessels, 2,213 tons 3,444 boats. 18,354 gill-nets, 423,307 fathoms 4 seines, 830 fathoms 3 trap-nets 1,931 trawls 43 smelt-nets. 15,510 hand lines. | 33,210 67,064 136,992 1,350 1,000 11,058 395 7,749 | 00 00 00 00 00 00 | 258,818 | : 00 |
| 71 Lobster cannerise | 53,975 83,882 | | , | |
| 33 freezers and ice houses. 818 smoke and fish houses. 281 piers and wharfs. 47 tugs, steamers and smacks. | 2,912 24,207 49,902 4,300 | 00 00 | 137,857 81,321 | |
| Total value. | | | 477,996 | 5 00 |

NOVA SCOTIA—District No. 2.

RETURN showing the Number, Tonnage and Value of Vessels and Boats, Nets, &c., and the Quantities of Fish caught in District No. 2, Province of Nova Scotia, for the Year 1898.

| | , (7.0) (7.0) (7.0) | | 3 | | 3 | | | - | | | Design (true of | | ji- | | | 1 | | | | |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|---------------------|------------------------------------------------|---------------------------|----------------------|-------------------|----------------------|---------------------------|------------------------------|------------------------------------|---------------|-----------------|------------------------------|-------------------------|-----------------------|---------------------------|-----------------------------------|--------------------|--|
| | | FISH | l'NG | /ESSI | FISHING VESSELS AND BOATS | ND 1 | 30.ATs | ~ | 4 | MAT | MATERIALS. | 4 4 .; | | | KINDS | S OF | Fіян | | ļ | |
| | | > | Vessels | i | | g | Boats. | <u> </u> | E | Gills Net. | نړ | Trawls | ž | 'qs. | -3[1 | 'ųs. | ٠, | .sl. | | |
| Yumber. | • Візтистя. | Zumber. | . эзвипоТ | .ənpeA | мых | Xumber. | Value. | Men. | Number. | Fathoins. | .ənhaV | ZədanZ | $V_{ m alne}$. | Salmon, fre lbs. | Herring, sa slid ,b9 | Herring, fre Jos. | Arckerel, ball, lbs | Mackerel, of salted, by | Zamber | |
| | A) Harbour Bouché, Linwood, Cape Big Tracadie, Bavfield, Monks H | | = | 200 | | (2.8 | \$ 721 693 | | 362 128 | 6959 8568 | \$ 1272 3531 | \$ # | * ±28 | 500 13906 | | 349 6800 | 1756 2151 | 106 | 31 | |
| iee 44.70 | 3 North Side Harbour, Lakeville, Ballantyne's Cove, and South Side Cape George 4 North Side Cape George and Georgeville. 5 Malignant Cove, Doctors Brook, Arisaig, Moidart and Knoidart | - · · · · · · · · · · · · · · · · · · · | - :::: | | : : : | 888 | 655 287 381 | -8884 -8884 | 828 | 3105 1480 1780 1780 | 3105 1109 1480 454 2780 1066 | នេះវិតិ | 55 E 8 | 9009 2008 3009 3009 | ¥83 \$25 | | 1300 1600 | 25% | 35 4 75 | |
| | | - | = | 500 | m | 221 27 | 2737 | 318 (| 879 | 19895 | 1337 | 133 | # | 30406 1839 6800 | 08.81 | 6800 | 10501 | 197 | | |
| | Values | 1 : | | <u> - : </u> | | | <u>.</u> | | | | | | - | 6081 | 9282 | ä | 1260 | 9955 | ! | |
| Ti . | | | | | | | | X | Kinds | OF F | Fish. | | : | | ! | | | | | |
| Number. | Districts. | preserved in cans, lbs. | Cod, dried, cwt. | Haddock, dried, cwt. | Hake, dried, cwt. | Hake, sounds, lbs | Trout, lbs | Smelts, lbs. | to serivel A slrd .srqss. | Bass, Ibs. | Fels, bris. | slid ,sietevo | Squid, binpS, | ed fish, bris. | galls. Fish as bait, | brls. | rs[aq 'əan | TOTAL VALUE OF ALL FISH. | ZadamN | |
| 1 7 | | 52032 14736 | 82 8 | G ; | 159 | 약 : | 904 | 94 60 000 | 7. | 200 | ~ x 31 | ž, | ຸສາ : | | 76 3 | 1000 5 344 1 | 510 154 | 8 18,774 9,713 | - 67 | |
| ല 4.10 | iallantyne's Cove and South Side Capergeville Moidart and Knoidart | 56112 13680 27696 | 257 33 34 | 33 4-1 | 383 1426 1426 | 7 | 1000 | 208 1000 1000 779 | ⊋ ≈ | 1600 | 2 : : | | 10 ∞ t~ | | 126 1 249 496 1 | 175 50 102 2 | 400 16 140 E 280 15 | 16,963 5,379 15,583 | es 4.75 | |
| | Totals. | 164256 | 484 | 8 | 2299 | 5792 | 1800 | 3400 | 1 | 73 1800 | 138 | 33 | हर | 8 | 941 16 | 1671 14 | 1484 | : | | |
| ŀ | Values | 32851 | 1936 | 270 | 5152 | 5806 | 2806 180 | 170 | 365 | 180 1000 | 0001 | 113 |] 8: | 30 | 282 | 2507 | 782 | 66,412 | | |

SESSIONAL PAPER No. 11a

| | | | Ħ | SHIN | G VE | SSELS | FISHING VESSELS AND BOATS. | 30ATS. | Ħ | FISHING GEAR OR MATERIALS | FEAR O | R MA | TERIALS | | K | ND8 0 | KINDS OF FISH. | İ | |
|---------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|---------------------|-------------------------|-------------------------|----------------------|----------------------------------------------|----------------------------|----------------------------------------------|----------------------------------------------------|-----------------------------------------------------|------------------------------------------|--------------------------------------------|----------------------------------------------|------------------------------------|-----------------------------------------|----------------|-----------------------|-------------------------------------------|------------|
| | | | | Ves | essels. | | " | Boats. | | Gill Nets. | Vets. | | Weirs. | | | | l — | mi l | |
| | Districts. | | .oV | Tonnage. | Value. | Men. | .oN | Value. | Men. No. | Fathoma. | Value. | . ₀ X | Value. | Salmon, adf ,tesnî | Herring, | Retring, | Herring, smoked, l | Lobsters, preserved | cans, lbs. |
| Sterling | Colchester County. | | | | | | 1 41 | \$ 210 | 3 | 1 | 600 | <u>•</u> 221 | 66 | | | : | | 14400 | 8 |
| 2 Stewiacke 3 Five Islands 4 Economy 5 Little Bass I 6 Great Villag | 1 Securates 3 Five Islands 4 Economy 4 Economy 6 Great Village to Queen's Village | | | | | <u> </u> | 105 8 8 8 8 8 8 | 1050 220 220 260 475 723 | 25 16 16 18 18 18 18 18 18 | 220 16 19 19 19 19 15 15 15 | <u>:</u> | : : | 3 400 11 3800 5 1600 | 9000 0 2100 0 12000 13200 | . : 22 : : | 4000 | 0 3500 | | . : : : : |
| | Totals. | | - - | <u> </u> | | <u> </u> | 176 | 2938 | 322 | 297 25375 | | 5820 1 | 19 5800 | 0 39100 | 22. | 4000 | 3500 | 0 14400 | 8 |
| | Values | | | i i | | <u> </u> | | | : : | | | <u> </u> | <u> </u> | . 7820 | 200 | | 18 | 70 2880 | 86 |
| | | | | | | | X | KINDS OF | F FISH. | | | | | | | | | | |
| Митрег. | Districts. | Cod, dried, cwt. | Haddock, fresh, lbs. | Haddock, dried, cwt. | Hake, dried, cwt. | Pollock, cwt. | Halibut, Ibs. | Trout, lbs. | Shad, bria. | Smelts, lbs. | Alewives or gaspereau, slrd | Base, lbs. | Eels, brls. | Oysters, brls. | Fish oil, galls. | Fish as manure | brls. | Total Value of All fish. | S4 . |
| 1 Sterling 2 Stewiacke 3 Five Islands 4 Economy 4 Economy 6 Great Villag | 1 Sterling 2 Stewiacke 3 Five Islands 5 Little Bass River to Highland Village 6 Great Village to Queen's Village | 120:: | 1800 | ::81 :: | 01 | : 20 | 1000 | 3000 1000 1000 1000 1000 1000 | 550 19 408 193 | 13000 | 66 + · · · · · · · · · · · · · · · · · · | 1000 | | 880 | : : : : : : : : : : : : : : : : : : : : | 10:::: | 140 | 4,943 9,330 1,481 7,430 4,650 | 89HH00 |
| | | 135 | 2000 | 153 | 12 | 2 | 1000 | 7400 | 1657 | 13000 | 08# | 1400 | 2 | 280 | 18 | 18 | 14 | : | : |
| | | 1045 | 8 | 75 | 18 | ۱ª | 18 | 740 | 16570 | 53 | 1920 | 140 | 128 | 1128 | 8 | 1 00 | 18 | 3.3145 | 10 |

63 VICTORIA, A. 1900

| | | | | | | | - | | | • | | | | | . | | | | | | 11_ |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------------------------|----------|----------------------------------------|----------------------------------------------------------------------------------------------|------------------------------------------------|-----------------------------------------------|----------------------------------------------|------------------------------------------------------|------------------------------------------------|----------|-------------|------------|--------------------------------------------|--------------|----------------|----------------|---------------|-----------------|----------------|-----------|
| | | FISHING VESSELS AND BOATS | VES | SELS | AND] | 30ATS | | | FISHING MATERIALS. | NG M | ATERI | ALS. | | | | KINI | KINDS OF FISH. | F1sH. | | | |
| DISTRICTS. | | Vessels | els. | | MA | Boats. | | Gill | Gill Nets. | | Trawls. | | Weirs. | lbs. | ed, lbs. | d, brls. | 'sql | ed, lbs. | - | ni bəvrə | |
| Илтрег, | Number. | Tonnage. | Value. | Men. | Number. | Value. | Men. | Number. | Fathoms. | Value. | Number. | Number. | Value. | Salmon, fresh, | Salmon, smok | Herring, salte | Herring, fresh | Herring, smok | Mackerel, fres | Lobsters, pres | Number. |
| Cumberland County. | | | 66 | | | 66 | | | ** | 66 | | | 9 € | | | | | | | | |
| 1 Pugwash, Port Philip and Gulf Shore. 3 River Philip 4 La Planche Maccan and Nappan 5 Minudie to Apple River. 7 Spencer's Island and Port Greville. 8 Parrsboro | | 12 | 120 | 9: : : : : : : : : : : : : : : : : : : | 250 250 250 451 251 251 251 251 251 251 251 251 251 2 | 6703 200 200 100 140 600 180 | 57448831891 8 | 371 7 28 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | 7515 21 7700 2 310 2 80 4 120 1 180 1 | 2128 290 200 200 450 100 175 | | | | 1316 1300 200 4200 500 1000 | 400 | | 26000 | 100 | 700 1800 500524 | 00524 | H008400F0 |
| Totals | · : | 8 | 395 | m | 307.8 | 8508 | 357, 4 | 473 | 10263 38 | 3813 | 2 13 | 135 | 3 12(| 120 8516 | 400 | 350 | 26400 | 98 | 1800 500529 | 00524 | |
| Value | 6 | <u> </u> | <u> </u> | İ | | : : | <u> : </u> | <u> </u> | | <u> : </u> | : : | : | 1 : | 1703 | İ | 80 1280 | 264 | 191 | 216 100105 | 00100 | |

RETURN showing the Quantity and Value of Fish, &c.-Nova Scotia-Con.

| | Total Value of All, Fish. | & cts. | 8888 | 38 | 888 | : | 137,413 00 |
|----------------|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| | Fish as manure, brls. | | 5200 | : : | · · · · · | 500 | 22 |
| 1 | Fish as bait, brls. | | 658 | 8 | 28 | 208 | 6312 1250 |
| | Oysters, brls. | | 646 721 | : : | : : : | | 160 5468 |
| | Clams, brls. | | 20 | : ස | | 24 950 5 1100 5 05 70 40 4440 3750 1600 533 85900 773 410 69 80 1367 4208 2560 | 160 |
| | Eels, bris. | | 22.8 | 10 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 069 | |
| | Bass, Ibs. | | 160 | : : | | 41 | |
| | Alewives and gasperreau, bris. | | 200 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 3092 | | |
| H. | Smelts, lbs. | | hore hore 14 (600 20 2050) 48 160 24 5 5 6 6 6 6 4 6 4 8 5 5 5 0 112,797 (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) (1797) | 4295 | | | |
| Kinds of Fish. | Shad, brls. | | ::00 | 3 6 | : : : | 533 | 5330 |
| S OF | Trout, lbs. | | 1000 | : : | : : : | 1600 | 160 |
| Kini | Halibut, lbs. | | _ | • | _ | 3750 | 375 |
| | Pollock, cwt. | | : : : | : :23 | 388 | 140 | 88 |
| | Hake sounds, lbs. | | : : : | : : | . 40 | | 8 |
| | Hake, dried, cwt. | ty. Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc Coc | 157 | | | | |
| | Haddock, dried, cwt. | | | :≅ | 858 | 120 | 1515 |
| | Haddock, fresh, lbs. | | : ; ; | 500 | 8 <u>8</u> : | 1100 | 183 |
| | Cod tongues and sounds, brls. | | | : : | : : | 5 | 120 |
| | Cod, dried, cwt. | | : : : | : : | 222 222 202 202 | 920 | 380 |
| | Lobsters, fresh in shell, | | 41 : : | | 01 : : | 124 | 181 |
| | Districts. | Cumberland County. | wash, Port Philip and Gulf Shore. lace r Philip | Flanche, Nappan and Maccan udie to Apple River | ocate ncer's Island and Port Greville. sboro' | Totals | Value |

 $11a - 5\frac{1}{2}$

63 VICTORIA, A. 1900 RETURN showing the Number, Tonnage and Value of Vessels and Boats, and the

| | | | Fish | ING VE | essel | S ANI | в Воат | rs. | Fisi | iing Gi | EAR OR | MATE | RIALS. |
|---------|--------------------------|---------|-----------|---------|-------|---------------------|------------------------|---------|---------|----------------------------|--------------------------|---------|-------------|
| | Districts. | | v | essels. | | | Boats. | | | Gill Ne | ts. | Wei | irs. |
| Number. | | Number. | Tonnage. | Value. | Men. | Number. | Value. | Men. | Number. | Fathonis. | Value. | Number. | Value, |
| _ | Hants County. | | | \$ | | | \$ | | | | \$ | | 8 |
| 2 | Maitland to Shubenacadie | | | | | 20 21 4 21 | 300 68 80 800 | 21 8 | 4 | 1400 440 800 4427 | 350 110 160 800 | 5 | 1200 250 |
| | Totals | 2 | 31 | 500 | 5 | 66 | 1248 | 73 | 48 | 7067 | 1420 | 8 | 1450 |
| | Values | ٠. | į · · · · | | | | | | | | | | |

| | | | Fish | ING VE | SSEL | S AN | р Воат | 's. | Fisi | ting G | EAR OR | Мате | RIALS. |
|-----------------------|--------------------------------------------------------------------------------------------------------------------|---------|----------|---------|------|--------------------------|----------------------------------|---------------------------------------|---------------------------------------|---------------------|--------|---------|--------|
| | Districts. | | v | essels. | | | Boats. | | | Gill Ne | ts. | Tra | wls. |
| Number. | | Number. | Tonnage. | Value. | Men. | Number. | Value. | Men. | Number. | Fathoms. | Value. | Number. | Value. |
| ļ | Pictou County. | | | 8 | | | 8 | | | | \$ | | 8 |
| 3 4 5 6 7 | West Pictou Pictou Island Central Division. Southern Division Merigomish Island. North Beach Ponds Lismore. Totals | | 30 | 400 | | 40 13 8 16 5 | 1400 250 500 270 127 | 120 12 48 13 8 19 6 | 40 20 77 24 15 36 7 | 1028 2218 630 | 650 | 3 | 35 |
| | Values | - | | 400 | | 297 | 6602 | 406 | 299 | 10972 | 5639 | | |

SESSIONAL PAPER No. 11a

Quantity and Value of all Kinds of Fish, &c.—Nova Scotia—Continued.

| | | | | | KINE | s of I | Гівн. | | | • | | | | |
|------------------------------|------------------------|----------------------|-----------------------|------------------|----------------------|-------------------|---------------|---------------------------|-----------------------|---------------------------------|-----------------------------|--------------|--------------------------------------------|---------|
| Salmon, fresh, lbs. | Herring, salted, brls. | Herring, fresh, lbs. | Herring, smoked, lbs. | Cod, dried, cwt. | Haddock, dried, cwt. | Hake, dried, cwt. | Pollock, cwt. | Trout, lbs. | Shad, brls. | Alewives or Gaspereau, brls. | Bass, lbs. | Clams, brls. | TOTAL VALUE OF ALL FISH. | Number. |
| | | | | | | | | | | | | | \$ cts. | |
| 4000 1000 5000 1115 | 66 | 27800 | 4000 | 118 | 9 | 15 | 80 | 500 900 500 5000 | 10 2 170 405 | 400 15 20 66 | 5000 100 4000 1900 | 200 | 3,050 00 380 00 3,230 00 6,942 00 | |
| 11115 | | | | | 9 | 15 | | 6900 | 587 | 501 | 11000 | 200 | 0,012 00 | |
| 2223 | | 278 | | | <u></u> | 34 | | 690 | 5870 | 2004 | 1100 | | 13,602 00 | 1 |

| | | | | | | | Kin | DS O | r Fi | вн. | | | | | | | | | | | |
|---------------|---------------------------------------|----------------------|-----------------------|-----------------------------------|------------------|----------------------|-------------------|--------------------|--------------------|---------------|---------------------------------|------------|----------------|--------------|-----------|------------------|-------------------------|------------------------|------------------------------|----------------------|-----------------------|
| | Herring, salted, brls. | Herring, fresh, lbs. | Mackerel, fresh, lbs. | Lobsters, preserved in cans, lbs. | Cod, dried, cwt. | Haddock, dried, cwt. | Hake, dried, cwt. | Hake, sounds, lbs. | Trout, lbs. | ač l | Alewives or gaspereau, brls. | Bass, lbs. | Eels, brls. | Clams, brls. | | Fish oil, galls. | Fish as bait, brls. | Fish, as manure, brls. | TOTAL VALUE O ALL FIS: | OF | Number. |
| | | | | | | | | | | | | | | | | | | | \$ | cts. | |
| 9000 4100 | · · · · · · · · · · · · · · · · · · · | 36200 3000 | 4900 1400 | | 299 | $[\ldots]$ | 600 | | 200 6000 300 | 10000 3000 | 200 5 | | 7 125 26 | | 10 100 | | 350 250 170 50 | | 3,917 | 00 00 00 00 | 1 2 3 4 5 |
| 6800 17100 | 12 | 5400 14200 | 1100 | 27936 | 5 | | 25 108 | 100 | 400 400 | 10600 | | 150 | | | | 60 | 40 | 140 | 2,355 9,830 | 00 | 6 |
| 3500 | ••• | 1000 | | | | | 10 | | 100 | | | | <u> </u> | | | | • • • • | <u> </u> | 743 | 00 | 8 |
| 40500 | 19 | 174500 | 8200 | 417236 | 404 | 30 | 933 | 100 | 7400 | 28600 | 205 | 150 | 188 | 20 | 110 | 60 | 860 | 2075 | | | |
| 8100 | 76 | 1745 | 984 | 83447 | 1616 | 90 | 2100 | 50 | 740 | 1430 | 820 | 15 | 1880 | 40 | 440 | 18 | 1290 | 1038 | 105,919 | 00 | 1 |

RETURN showing the Number, Tonnage and Value of Vessels and Boats, Nets, &c.—Nova Scotia—Con.

| | | | | | | | 63 VICTO | J11174, | 7. | 130 |
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| in shell, | Lobsters, fresh | | <u>:</u> : | | : : : | : | 797 11 3 | : | 811 | 4055 |
| ni bəvre | Lobsters, prese | | | | | : | 334368 245497 77952 | | 915956 | 13170 183191 |
| ed, brls. | Mackerel, salte | | | | 10 | : | | · | 878 | |
| .adl ,r | Mackerel, fresh | | <u>: </u> | | | 1000 | | 310203 | 408527 | 49023 |
| .adI | Herring, fresh, | | <u>:</u> : | | : : : | : | | 465200 | 703200 | 7032 |
| , bris. | Herring, salted | | ತನೆ | 132 194 250 432 | 210 710 360 | 135 | 5297 355 1100 | 3102 | | 49444 |
| 10 | | | | 150 675 | : : : | : | 1200 | : | 2025 | 405 |
| ui dev | cana, lbs. | | : : | 100 | : : : | 100 | 821 82 83 83 83 83 83 83 83 83 83 83 83 83 83 | : | 9850 | 303 |
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| Trap Vets. | Value. | ₩ | : : | | | : | 975 4900 8000 | : | 13875 | |
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| es. | Value. | 66 | : | : : | | <u>.</u> | | | 336 | |
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| ill Net | Fathoms. | | - | | | | 87100 23200 82300 | 149000 | 359800 | : |
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| | Men. | | 96.5 | 5688 | 886 | 55 | 800 | 989 | 2842 | 1 : |
| Boats. | Value. | 66 | 130 | 1800 800 820 820 | 320 1775 750 | 950 | 16207 10925 4320 | | 51037 | |
| | Number. | | 23 | 8442 | 16 57 34 | 42 | 300 | 510 | 2193 |] : |
| | Men. | | : | : : : : | : : : | : | 05 41 7 | 8 | 191 |]: |
| essels. | Value. | 6 9 | | | | : | 3200 1000 1050 | 4800 | 10050 | : |
| > | Топпаве. | | : : | : : : : | | : | 211 46 59 | 207 | 523 | : |
| | Number. | | <u> </u> | : : : : | ::: | | . Om 63 | 9 | | † <u>:</u> |
| Dromorons | Districts | Guysborough County. | arie Joseph | iscomb, Spanish,Ship Bay and Gegoggin Mary's Bay and River. ine Harbour dian Harbour and Lake. | olland's Harbour and Indian River ort Beckerton. sherman's Harbour | ountry Harbour, Isaac's Harbour and River | aac's Harbour to White-head. hitchead to Canso history to Salmon River hmon River to Antigou- ish, County Line includ- | ing Cook's Cove, Grysboro, North Shore and Canso Strait. | Totals | Values |
| | Vessels. Boats. Gill Nets. Seines. Trap or lbs. horls. horls. horls. horls. horls. horls. horls. horls. horls. horls. | Tonnage. Yalue. Men. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. Yalue. 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SESSIONAL PAPER No. 11a

RENURN showing the Quantity and Value of all Kinds of Fish, &c.-Nova Scotia-Com.

| | Number. | | - 67 | 6470 | ~∞6 | 10 | 122 | | | |
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| | TOTAL VALUE OF ALL FISH. | ♣ cts. | 4,781 00 8,866 00 | 16,573 00 12,989 00 1,801 00 3,283 00 | 1,548 00 19,916 00 6,861 00 | 2,811 00 | 162,804 00 215,739 00 56,602 00 | 80,315 00 | : | 594,889 00 |
| | Fish as manure, brls. | | 05.1 04.1 | 260 210 | :00 00 00 00 00 00 00 00 00 00 00 00 00 | | 3320 1700 8565 1200 3270 400 | 200 | 4600 | 2300 |
| | Fish as bait, brls. | | 520 400 | 350 130 880 880 | 210 420 340 | 280 | 3320 8565 3270 | : | 18965 | 28448 2300 |
| | Fish oil, galls. | | 280 400 | 600 100 70 80 70 | 18 240 170 | 100 | 6000 20500 2000 | 1900 | 32408 | 9722 |
| | Coarse and mixed fish, bris. | | 2 2 | 3488 | 282 | 25 | . 186 186 | : | 602 | 903 |
| | Squid, bris. | | : : | | | 4 | 80 1700 1400 | : | 3198 | 12792 |
| | Tom cod or frost fish, lbs. | | 950 | 1500 1200 820 640 | 1200 750 | 1000 | 18000 | : | 27740 | 1387 |
| | Clams, brls. | | 10 | ତ୍ତିୟ : | 222 | 94 | 8 : | 20. | 230 | 280 |
| | Eels, brls. | | 17 | 8548 | 4601 | 4 | 130 | 6 | 369 | 3690 |
| | Alewives of gaspereau, bris. | | 82 | 02 P 81 | 0 C | 10 | 255 | 370 | 927 | 3708 |
| Kinds of Fish. | Smelte, lbe. | | 300 | 1400 840 420 2200 | | 450 | 8000 | 10000 | 24560 | 1228 |
| S OF | Trout, lbs. | _ | 650 150 | 1000 2500 320 400 | 8 : : | 200 | 1200 760 150 | : | 8430 | 843 |
| KIND | Halibut, lbs. | | 950 1950 | 4350 450 225 1070 | 250 940 550 | 3000 | 22000 312400 300 | • | 3486 348335 | 34833 |
| | Pollock, cwt. | | ಬ್ | 16 | 15. | 8 | 740 2545 77 | 52 | 3486 | 6972 |
| | Hake sounds, 1bs. | | : : | | : : : | : | 200 300 300 | 107 | 397 | 199 |
| | Hake, dried, cwt, | | : | | : : : | _ <u>:</u> | 164 1465 217 | 304 | 2150 | 4837 |
| | Haddock, smoked fin- nan haddres, lbs. | | : : | | | 5280 | 150000 | : | 155280 | 9316 |
| | Haddock, dried, cwt. | - | 99 | 13 13 10 10 | 8 52 8 | 15 | 4150 650 355 | 961 | 6417 | 19251 |
| | Haddock, fresh, lbs. | | | | : : : | : | 5000 1477300 212699 | 62433 | 1757432 | 52722 |
| | Cod tongues and sounds, bris. | | : : | : : : : | | : | ; ;0.4 | က | 12 | 120 |
| | Cod, dried, cwt. | | 285 126 | 615 100 35 78 | 272 190 | 100 | 6890 8920 2068 | 1700 | 21699 | 96298 |
| Second Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Communication of the Co | Districts. | Guysborough County. | 1 Ecum Secum. | 3 Liscomoc, Spansa Sup Bay and Gegoggin | f nolland narbour and indian River. Port Beckerton. 9 Fisherman's Harbour. | 10 Country Harbour, Isaac's Harbour and River | 11 Isaacs Harbour to winer head | 14. Salmon Kiver to Anugonish County Unie including Cook's Cove, Guys, boro, North Shore and Canso Strait. | Totals | Values\$ 86796 |

63 VICTORIA, A. 1900

RETURN showing the Number and Value of Vessels and Boats, Nets, &c.—Nova Scotia.—Con.

| | | Number. | | 188470 |
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| | ni bəvr | Lobatera, prese | | 64456 |
| | slīd ,be | Mackerel, salte | | 88848575757500 x x 2 x 3 x 3 x 3 x 3 x 3 x 3 x 3 x 3 x |
| У 18н. | .801 ,0 | Mackerel, fresh | | \$60000 \$60000 \$60000 \$6000 \$600 \$600 \$6 |
| Kinds of | lbs. | Herring, fresh, | | 1500 11500 10000 10000 10000 10000 10000 10000 |
| KIN | , brls. | Herring, salted | | 929898888898989898989898989898989898989 |
| | d, lbs. | Salmon, smoke | | 28888 |
| | .adl | Salmon, fresh, l | | 2000 2500 2500 2500 2500 2500 2500 2500 |
| | Trap Nets. | Value. | 69 | 6000 |
| nt. | FZ | Number. | | 217 · · · · · · · · · · · · · · · · · · · |
| ERIAL | n ni | .slue. | •• | 944 24 24 24 24 24 24 24 24 24 24 24 24 2 |
| Mar | Seines | Fathoms. | | 6200 2300 2300 800 800 800 750 1600 1600 1000 175 |
| # O# | | Number. | | 2222 8 8 5 2 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| Fishing Grar or Materials | | Value. | 69 | 2550 2150 2150 2150 2150 2150 2150 2150 |
| Fishin | Gill Nets. | Fathoms. | | 112000 65000 65000 65000 12000 3000 3000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 17000 1 |
| | 5 | Number. | | 960 960 960 960 960 960 960 960 960 960 |
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| Boats. | Boats. | Value. | 69 | 1040 11250 1500 1500 1500 1600 1600 11500 1160 |
| AND | 1 | Number. | | 288888811124888888 871 1818888888888888888888888888 |
| SELS | | Men. | | ::818-388:-8534: 881::8 |
| FISHING VESSELS AND BOATS | Vessels. | Vыlue. | •• | 1200 600 600 900 2250 2500 2500 1300 1300 1300 |
| ISHI | Y es | Топпаge. | | 8: : 4786: : 55 13358: : : : : : : : : : : : : : : : : : : |
| <u> </u> | | Number. | | : 40004466 HOUR 01 : 0H : W |
| | Tycomprome | | Halifax County. | 1 North Shore. 2 East St. Margaret's 3 Indian Harbour 4 Peggy's Cove 5 Dover. 6 Prospect 6 Prospect 7 Terrence Bay 8 Pennant 9 Sambro. 11 Portuguese Cove 12 Herring Cove 12 Herring Cove 13 Reguson's Cove 14 Bedford and Halifax 15 Eastern Passage and Devil's 16 Cov Bay and Lawrencetown. 17 Seaforth and Three Fathom 17 Seaforth and Three Fathom 18 West Chezzetcook 19 East Chezzetcook 20 Petpeswick Harbour 22 Jeddore. |

| 301 56 20496/23 45 12 13728 24 | 80 | 32 | 100 26 35280 28 | 147 91776 29 | 3 42144 | 54288 | 88656 32 | 74448 | 118150 1017 590352 | 78 15255 118070 |
|------------------------------------------------------|----------------------|--------|----------------------------------------|---------------|----------------------------------|----------------|-----------------------------|---------------------------------|--------------------|-----------------|
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| 45 | 121 | 32 | : | | : | : | : | | 150 | 100 |
| 301 | 121 | 32 | : | <u>:</u> : | <u>:</u> | <u>.</u> | | . : | 188 | 134178 |
| 301 | 121 | 38 | | _ : | • | : | <u>:</u> | | 31000 | 310 |
| :: | | | = | 929 | 118 | <u>.</u> | <u>:</u> | 8 | 6047 | 24188 |
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| 120 | : | 250 | : | | 8 | - - | <u>:</u> | : : : : | 33782 | 6756 |
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| 8 8 8 8 | 233 | 38 | 267 | 1005 | 8 | 34 | 98 " | 109 | 35548 | : |
| 12540 2820 | 1520 | 88 | 1640 | 0029 | 00% 00% | 180 | <u>8</u> 8 | 28 | 346010 | |
| 209 74 | 23 | 4 | 82 | 335 | 145 | 6 | 90 F | 18 | 10273 | |
| 24 | 2,2 | 10 | 88 | 8 | 47 | œ | 70 TC | . K | 9687 | |
| 220 | 345 | 267 | 9 | 1121 | 2 | 110 | 8,5 | 8 | 31082 | |
| _ | 22.2 | Ξ | 24 | 19 | 4 | o. | ~ 7• ⊃(| 2 | 5408 | |
| 19 | : | | : | | : | : | : | | 400 | : |
| 1500 | : | | : | 1000 | : | : | : | | 36850 | |
| 72 | : | : : | : | 88 | : | : | : | | 1516 | |
| 4 : | : | : : | : | 81 | : | | : | : : | 8 | <u>:</u> |
| 23 Clam Harbour and Owl's Head 4 | 25 East Ship Harbour | angier | 28 Pope's Harbour and Gerrard's Island | Mushaboon | 30 Sheet Harbourand Sober Island | River | 32 Quoddy and Harrigan Cove | 34 Mitchell's Bayand Ecum Secum | Totals60 | Values |

RETURN showing the Quantity and Value of Fish, &c.-Nova Scotia-Con.

| | Number. | | 2229 2229 2229 2229 2229 2229 2229 222 |
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| | TOTAL VALUE OF ALL FISH. | 6 € | 70,315 48,889 51,882 11,982 11,982 11,982 11,080 11,606 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 11,030 |
| | Seal skins, No. | | TQ:::::::::::::::::::::::::::::::::::: |
| | Fish as manure, bris. | | 300 8 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 |
| | Fish as bait, bris. | | 051 061 061 061 062 063 064 064 065 065 065 065 065 065 065 065 |
| | Fish oil, galls. | | 190 250 250 400 1000 325 325 327 500 500 500 200 40 40 40 40 40 40 40 50 20 20 20 20 20 20 20 20 20 20 20 20 20 |
| | Coarse and mixed fish, prls. | | 88 68 55 |
| | Squid, brls. | | 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 |
| | Tom cod or *rost fish, | | 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 |
| | Clams, bris | | 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 |
| | Eels, brls. | | 821123132 48 8777011 |
| | Alewives or gaspereau, bris. | | 2828 o 2828 c |
| | Smelts, lbs. | | 1000 15000 5000 6000 6000 1500 1500 1600 16 |
| | Trout, lbs. | | 25 25 25 25 25 25 25 25 25 25 25 25 25 2 |
| FISH. | Halibut, lbs. | | 2500 2500 2500 2500 2500 2500 2500 2500 |
| § | Pollock, cwt. | | 3800 460 560 560 560 560 560 560 560 560 560 5 |
| KINDS OF | Hake sounds, Ibs. | | 88 |
| | Hake, dried, cwt. | | 201112 2020 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 20112 |
| | Haddock, smoked fin- nan haddies, lbs. | | 200 |
| | Haddock, dried, cwt. | | 888655548 80 724588 |
| | Haddock, fresh, lbs. | | 800 800 800 800 800 800 800 800 800 800 |
| | Cod tongues and sounds, bris. | | 2070 - 277 - |
| | Cod, dried, cwt. | | 112 250 250 250 250 250 250 250 250 250 25 |
| | Lobsters, fresh in shell, cwt. | | 13800 13000 13000 13000 13000 1000 1000 |
| | Districts. | Halifax County. | North Shore Past St. Margaret's Indian Harbour Peggy's Cove Prospect Terrence Bay Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Personent Person |
| | Number. | | 11228 8 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |

| 222222 | 88 | 81 SS | 22222 | - | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|----------------------------------------------|----------------------------------------------------------------------------------------------|--------------|------------------|
| 9,518 3,529 1,438 5,141 1,037 | 9,213 | 29,709 | 15,997 22,528 360 17,406 | : | 504,895 |
| <u>::::</u> : | - : | : : | <u>s</u> : : : | | 2 |
| 104 120 120 120 | 180 | 25 023 023 | 270 18 450 | 2974 21 | 1487 21 |
| 22 10 10 10 | - | 10 | -:::9 | 1805 | 2703 |
| 88 134 8 85 45 8 | 191 | 490 | 5888 | 12347 | 3704 |
| | : | : : | | 315 | 472 |
| | : | | | 92 | 368 |
| | : | | | 31000 | 1550 |
| 6 :01 : | ÷ | - 91 | | 1051 | 102 |
| 00 : H H | - <u>:</u> | <u>:</u> ::: | . 4 0 | 108 | 080 2102 |
| 21 & 4 | : | :: | . 4 | 256 | 1024 |
| 1000 | : | | | 27900 | 1395 |
| 150 | : | 88 | 1500: | 5955 | 296 |
| 1620 290 775 170 340 | 1006 | 1080 3887 | 480 708 | 57944 | 5794 |
| 104400 | 50 | 13 62 | <u> ⊣ </u> | 1526 | 052 |
| 10 | - <u>-</u> - | 110 | :::: | 2903 | 1452 3052 |
| , i | | 216 | | 1465 | 546 |
| | : | | | 5000 2465 | 300 5546 |
| 04 11 03 5 | 10 | 88 | 2376 | 1728 | 5184 |
| | : | : :: | | 79300 | 2379 |
| | <u>:</u> | - : : | · · · · · · · · · · · · · · · · · · · | 13 | 1 82 8 |
| 634 45 145 75 156 | 250 | 029 880 880 | 2157. | 18786 | 75144 |
| | 16 | 640 801 | 870 846 230 | 18063 | 90315 |
| 23 Clam Harbour and Owl's Head 24 West Ship Harbour 25 East Ship Harbour 36 Pleasant Harbour 27 Tangger 89 Pone's Harbour and Gornard's | Island Taylor Head and | Mushaboon 30 Sheet Harbourand Sober Island 8 | 22 Quoddy and Harrigan Cove 83 Moser River and Smith's Cove 34 Mitchell's Bayand EcumSecum 2 | Totals 18063 | Values 90 |

RECAPITULATION.

Or the Yield and Value of the Fisheries in District No. 2, Nova Scotia, with Comparative Statement or the Increase of Decrease for the Years 1897 and 1898.

| Salmon, fresh | Kinds. | Quantity in | Rate. | Totals. | QUANT | rities. |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------|---------|-----------|-----------|-----------------------------------------|
| Salmon, fresh | Tinus. | 1898. | Tido. | 100ais. | Increase. | Decrease |
| | | | \$ cts. | * | | |
| | Salmon, fresh Lb | 201,059 | 0 20 | 40,212 | 1 | 9,122 |
| | | | 0 15 | | 1,465 | ,,,,, |
| Tresh | " smoked | 4,125 | 0 20 | 825 | | |
| | | s. 20,702 | 4 00 | 82,808 | | 14,218 |
| Mackerel, fresh. " salted Brls. 2,092 15 00 31,380 1,4 Lobsters, preserved in cans. Lbs. 2,602,724 0 20 520,544 83,7 Cod dried. " 42,576 4 00 170,304 3,335 Cod dried. " 42,576 4 00 170,304 3,335 Cod dried. Toda of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the cont | | | 0 01 | 9,737 | 223,481 | l |
| Salted | | | | | | 23,600 |
| Lobsters, preserved in cans Lbs. 2,602,724 0 20 520,544 83,7 " fresh in shell. Cwt. 18,898 5 00 94,490 5,396 Cod dried. " 42,576 4 00 170,304 3,335 Cod tongues and sounds Brls. 30 10 00 300 11 Haddock, fresh Lbs. 1,839,832 0 03 55,194 75,5 " dried. Cwt. 8,804 3 00 26,412 3,6 " smoked finnan haddies Lbs. 160,280 0 06 9,616 160,280 3,6 Hake, dried Cwt. 7,933 2 25 17,848 1,944 1,530 1,500 1,074 1,018 1,018 1,014 1,018 1,014 1,018 1,014 1,018 1,014 1,018 1,014 1,018 1,014 1,018 1,014 1,018 1,014 1,018 1,018 1,018 1,018 1,018 1,018 1,018 1,018 1,018 1,018 | | | | | | 59,513 |
| | | | | | | 1,466 |
| Cod dried " 42,576 4 00 170,304 3,335 Cod tongues and sounds Brls. 30 10 00 300 11 Haddock, fresh Lbs. 1,839,832 0 03 55,194 75,5 " dried Cwt. 8,804 3 00 26,412 3,6 Hake, dried Cwt. 7,933 2 25 17,848 1,944 " sounds Lbs. 9,234 0 50 4,617 1,530 Pollock Cwt. 5,537 2 00 11,074 1,018 Halibut Lbs. 411,029 0 10 41,102 277,793 Trout " 39,485 0 10 3,948 6,255 Shad Brls. 2,777 10 00 27,770 1,395 Smelts Lbs. 183,360 0 05 9,168 14,700 Alewives or gaspereaux Brls. 3,215 4 00 12,860 332 Bass Lbs. 14,760< | | | | | | 83,722 |
| Cod tongues and sounds Brls. 30 10 00 300 11 Haddock, fresh Lbs. 1,839,832 0 03 55,194 75,5 " dried Cwt. 8,804 3 00 26,412 3,6 " smoked finnan haddies Lbs. 160,280 0 06 9,616 160,280 3,6 Hake, dried Cwt. 7,933 2 25 17,848 1,944 1,530 Pollock Cwt. 7,537 2 00 11,074 1,018 1,530 Pollock Cwt. 5,537 2 00 11,074 1,018 1,018 Halibut Lbs. 411,029 0 10 41,102 277,793 Trout " 39,485 0 10 3,948 6,256 Shad Brls. 183,360 0 05 9,168 14,700 Alewives or gaspereaux Brls. 183,360 0 05 9,168 14,700 Alewives or gaspereaux Brls. 14,760 0 10 1,476 2,520 | | | | | | |
| Haddock, fresh Lbs. 1,839,832 0 03 55,194 75,5 " dried Cwt. 8,804 3 00 26,412 3,6 " smoked finnan haddies Lbs. 160,280 0 6 9,616 160,280 Hake, dried Cwt. 7,933 2 25 17,848 1,944 " sounds Lbs. 9,234 0 50 4,617 1,530 Pollock Cwt. 5,537 2 00 11,074 1,018 Halibut Lbs. 411,029 0 10 41,102 277,793 Trout " 39,485 0 10 3,948 6,255 Shad Brls. 2,777 10 00 27,770 1,395 Smelts Lbs. 183,360 0 05 9,168 14,700 Alewives or gaspereaux Brls. 3,215 4 00 12,860 332 Bass Lbs. 14,760 0 10 1,476 2,520 Eels Brls. 1,641 2 00 3,282 | | | | | | |
| " dried Cwt. 8,804 3 00 26,412 3,6 Hake, dried Lbs. 160,280 0 06 9,616 160,280 3,6 " sounds Lbs. 9,234 0 50 4,617 1,530 1,944 " sounds Lbs. 9,234 0 50 4,617 1,530 2,00 11,074 1,018 1,018 1,018 1,018 1,018 1,018 1,018 1,018 1,018 1,018 1,018 1,018 1,018 1,018 1,018 1,018 1,018 1,018 1,018 1,018 1,018 1,018 1,018 1,018 1,018 1,018 1,018 1,018 1,018 1,018 1,018 1,018 1,018 1,018 1,018 1,018 1,018 1,018 1,018 1,018 1,018 1,018 1,018 1,018 1,018 1,018 1,018 1,018 1,018 1,018 1,019 2,009 1,018 1,018 1,019 1,019 1,019 1,01 | | | | | 11 | 1 |
| | | -,, | | | | 75,318 |
| Hake, dried Cwt. 7,933 2 25 17,848 1,944 " sounds. Lbs. 9,234 0 50 4,617 1,530 Pollock Cwt. 5,537 2 00 11,074 1,018 Halibut Lbs. 411,029 0 10 41,102 277,793 Trout " 39,485 0 10 3,948 6,255 Shad Brls. 2,777 10 00 27,770 1,395 Smelts Lbs. 183,360 0 05 9,168 14,700 Alewives or gaspereaux Brls. 3,215 4 00 12,860 332 Bass Lbs. 14,760 0 10 1,476 2,520 Eels Brls. 1,641 2 00 3,282 Oysters Brls. 1,641 2 00 3,282 Oysters Brls. 1,785 4 00 7,140 Tom cod or frost fish Lbs. 58,740 0 5 2,937 17,610 Squid Brls. 3,313 4 00 13,252 85 Coarse and mixed fish | " dried UW | , | | | 100.000 | 3,614 |
| Sounds | | | | | | • • • • • • • • • |
| Pollock Cwt. 5,537 2 00 11,074 1,018 Halibut Lbs. 411,029 0 10 41,102 277,793 Trout Trout " 39,485 0 10 3,948 6,255 Shad Brls. 2,777 10 00 27,770 1,395 Smelts Lbs. 183,360 0 05 9,168 14,700 Alewives or gaspereaux Brls. 3,215 4 00 12,860 332 < | | | | | | |
| Halibut Lbs. 411,029 0 10 41,102 277,793 Trout "39,485 0 10 3,948 6,255 | | | | | | |
| Trout. " 39,485 0 10 3,948 6,255 Shad. Brls. 2,777 10 00 27,770 1,395 Smelts. Lbs. 183,360 0 05 9,168 14,700 Alewives or gaspereaux Brls. 3,215 4 00 12,860 332 Bass Lbs. 14,760 0 10 1,476 2,520 Eels Brls. 839 10 00 8,390 4 Clams in shell Brls. 1,641 2 00 3,282 0 Oysters Brls. 1,785 4 00 7,140 7 Tom cod or frost fish Lbs. 58,740 0 05 2,937 17,610 5 Squid Brls. 3,313 4 00 13,252 85 5 Coarse and mixed fish " 937 1 50 1,405 534 534 Fish as bait Brls. 27,531 1 50 41,299 1,4 Fish as manure " | | | | | | |
| Shad Brls. 2,777 10 00 27,770 1,395 Smelts Lbs. 183,360 0 05 9,168 14,700 Alewives or gaspereaux Brls. 3,215 4 00 12,860 332 Bass Lbs. 14,760 0 10 1,476 2,520 Eels Brls. 839 10 00 8,390 6 Clams in shell Brls. 1,641 2 00 3,282 0 Oysters Brls. 1,785 4 00 7,140 5 Tom cod or frost fish Lbs. 58,740 0 05 2,937 17,610 5 Squid Brls. 3,313 4 00 13,252 85 5 Coarse and mixed fish " 937 1 50 1,405 534 Fish as bait Brls. 27,531 1 50 41,299 1,4 Fish as manure " 13,773 0 50 6,887 8,256 Seal skins No. 21 | | | | | | • • • • • • • • • • • • • • • • • • • • |
| Smelts Lbs. 183,360 0 05 9,168 14,700 Alewives or gaspereaux Brls. 3,215 4 00 12,860 332 Bass Lbs. 14,760 0 10 1,476 2,520 Eels Brls. 839 10 00 8,390 Clams in shell Brls. 1,785 4 00 7,140 | | | 1 | | | |
| Alewives or gaspereaux Brls. 3,215 4 00 12,860 332 Bass Lbs. 14,760 0 10 1,476 2,520 Eels Brls. 839 10 00 8,390 4 Clams in shell Brls. 1,641 2 00 3,282 5 Oysters Brls. 1,785 4 00 7,140 7 Tom cod or frost fish Lbs. 58,740 0 05 2,937 17,610 5 Squid Brls. 3,313 4 00 13,252 85 Coarse and mixed fish " 937 1 50 1,405 534 Fish oll Galls. 45,856 0 30 13,756 8,299 Fish as bait Brls. 27,531 1 50 41,299 1,4 Fish as manure " 13,773 0 50 6,887 8,256 Seal skins No. 21 1 00 21 | | | | | | |
| Bass Lbs. 14,760 0 10 1,476 2,520 Eels Brls. 839 10 00 8,390 4 Clams in shell Brls. 1,641 2 00 3,282 Oysters Brls. 1,785 4 00 7,140 5 Tom cod or frost fish Lbs. 58,740 0 05 2,937 17,610 5 Squid Brls. 3,313 4 00 13,252 85 534 | | | | | | 1 |
| Eels Brls 839 10 00 8,390 4 Clams in shell Brls 1,641 2 00 3,282 0 Cysters Brls 1,785 4 00 7,140 5 Tom cod or frost fish Lbs 58,740 0 05 2,937 17,610 5 Squid Brls 3,313 4 00 13,252 85 5 Coarse and mixed fish " 937 1 50 1,405 534 534 Fish oil Galls 45,856 0 30 13,756 8,299 1,4 Fish as bait Brls 27,531 1 50 41,299 1,4 Fish as manure " 13,773 0 50 6,887 8,256 Seal skins No. 21 1 00 21 | | , | | | | |
| Clams in shell Brls. 1,641 2 00 3,282 Oysters. Brls. 1,785 4 00 7,140 Fom cod or frost fish Lbs. 58,740 0 05 2,937 17,610 Squid Brls. 3,313 4 00 13,252 85 Coarse and mixed fish " 937 1 50 1,405 534 Fish oil Galls. 45,856 0 30 13,756 8,299 Fish as bait Brls. 27,531 1 50 41,299 1,4 Fish as manure " 13,773 0 50 6,887 8,256 Seal skins No. 21 1 00 21 | Eels Brl | | | | _,0_0 | 400 |
| Dysters Brls. 1,785 4 00 7,140 5 Com cod or frost fish Lbs. 58,740 0 05 2,937 17,610 5 Squid Brls. 3,313 4 00 13,252 85 5 Coarse and mixed fish " 937 1 50 1,405 534 534 Fish oil Galls. 45,856 0 30 13,756 8,299 1,405 Fish as bait Brls. 27,531 1 50 41,299 1,405 Fish as manure " 13,773 0 50 6,887 8,256 Seal skins No. 21 1 00 21 1 | Clams in shell Brl | 1,641 | 2 00 | | | |
| Squid Brls. 3,313 4 00 13,252 85 Coarse and mixed fish " 937 1 50 1,405 534 Fish oll Galls. 45,856 0 50 13,756 8,299 Fish as bait Brls. 27,531 1 50 41,299 1,4 Fish as manure " 13,773 0 50 6,887 8,256 Seal skins No. 21 1 00 21 | Oysters Brl | 1,785 | 4 00 | | | 523 |
| Squid Brls. 3,313 4 00 13,252 85 Coarse and mixed fish " 937 1 50 1,405 534 Fish oil Galls. 45,856 0 30 13,756 8,299 Fish as bait Brls. 27,531 1 50 41,299 1,4 Fish as manure " 13,773 0 50 6,887 8,256 Seal skins No. 21 1 00 21 | Com cod or frost fish Lb | 58,740 | 0 05 | 2,937 | 17,610 | |
| Fish oil Galls. 45,856 0 30 13,756 8,299 Fish as bait Brls. 27,531 1 50 41,299 1,4 Fish as manure " 13,773 0 50 6,887 8,256 Seal skins No. 21 1 00 21 | | s. 3,313 | 4 00 | 13,252 | | |
| Fish as bait Brls. 27,531 1 50 41,299 1,4 Fish as manure 13,773 0 50 6,887 8,256 Seal skins No. 21 1 00 21 | | 937 | 1 50 | 1,405 | 534 | |
| Fish as manure | | | 0 30 | | 8,299 | |
| Seal skins No. 21 1 00 21 | | | | | | 1,48 |
| | | | | | 8,256 | |
| Total for 1998 | Seal skins | 21 | 1 00 | 21 | | 29 |
| | Total for 1898 | | | 1,456,274 | | 8,70 |

RECAPITULATION

Showing the Number and Value of Fishing Vessels, Boats, &c., in the District No. 2, Province of Nova Scotia, for the Year 1898.

| Material. | Value. | Total. |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|--------------------|
| | * | |
| 88 vessels (2,144 tons). 5,668 boats. 28,606 gill-nets (779,379 fathoms). 382 seines (37,933 fathoms). 82 trap-nets. 2,041 trawls. 30 weirs. 118 smelt nets. 8,251 hand-lines. | 48,395 103,852 131,974 63,625 17,160 10,159 7,370 2,003 11,705 | \$ 396,24: |
| 116 lobster canneries (1,931 hands) | 117,885 152,324 | , |
| 45 freezers and ice-houses 1,544 smoke and fish-houses. 892 piers and wharves 54 tugs steamers and smacks | 13,532 80,334 40,154 39,580 | 270,169 173,600 |
| Total value | | 840,01 |

Comparative Statement of the Value of the Fisheries in each County of District No. 2, Nova Scotia, for the Years 1897 and 1898.

| County. | Value in 1897. | Value in 1898. | Increase. | Decrease. |
|-------------------------------------------------------------------|-----------------------------------------------------------------------|------------------------------------------------------------------------|-------------------------------------|--------------------|
| | \$ | \$ | | |
| Antigonish Colchester Cumberland Guysborough Halifax Hants Pictou | 74,060 27,203 120,820 713,527 403,037 9,148 117,179 | 66,412 33,145 137,413 594,887 504,893 13,602 105,919 | 5,942 16,593 101,856 4,454 | 118,640 |
| | 1,464,974 1,456,271 | 1,456,271 | 128,845 | 137,548 128,845 |
| | 8,703 | | | 8,703 |

NOVA S OTIA-

Return showing the Number, Tonnage and Value of Vessels and Province of Nova Scotia,

| | X | Fı | SHIN | g V e | essel | S AN | р Во | ATS. | Fis | ning G | EAR | or N | ATE. | RIA | LS. | | |
|--------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------------------------------|--------------|--------------------|----------------------------------------------------|------------------------------------------------------|----------------------------------|----------------------------------------------------------|----------------------------------------------|-----------------------------------------------------------------------|---------------------------------------------------|------------------------------------------------------|---------------------------|-------------------------|----------------|--------------------------------------------------|
| | Districts. | | Ve | ssels. | |] | Boats | | G | ill Net | s. | Tra | wls. | w | EIRS | lbs. | , brls. |
| Number. | Districts. | Number. | Tonnage. | Value. | Men. | Number. | Value. | Men. | Number. | Value. | Fathoms. | Number. | Value. | Number. | Value. | Salmon, fresh, | Herring, salted, brls. |
| | Annapolis County. | | | * | | | \$ | | | \$ | | | | | | | |
| 2 3 4 5 6 7 8 9 10 11 12 13 | Margaretville. Port George. Port Lorne Hampton Phinny and Young's Cove Parker's Cove. Hilsburn and Lichfield Victoria Beach Thorn's Cove. Clementsport Annapolis Lequille River Round Hill Inland Lakes Totals | 1 3 3 2 | 10 40 150 150 26 | | 8 40 30 8 | 12 20 20 23 25 20 30 10 13 | 300 400 450 500 400 600 200 300 | 35 40 35 40 30 50 | 20 30 28 50 50 50 55 20 12 50 | 1000 2500 1500 2000 2000 2100 | 500 1000 600 800 800 1000 1500 500 225 300 | 12 16 20 20 30 100 50 50 | 100 150 200 200 300 600 300 300 | 2 2 4 3 1 | 400 800 200 50 | 300 | 300 500 600 500 350 400 78 |
| | Values\$ | | | | | | | | | | | | | | | 720 | 12632 |

District No. 3.

Boats, Nets, &c., and Quantities of Fish caught in District No. 3. for the Year, 1898.

| | | | | Kin | DS OF | Fish. | • | | | | | | | | | | | | | | |
|-----------------------|-------------------------------------------|------------------|---------------------------|----------------------|----------------------|-------------------|--------------------|---------------|-------------|--------------|-------|-------------|-----------------|--------------------------------|------------------------------|-------------------|---------------------|-----------------------|------------------------------|----|----------------------------|
| Herring, smoked, lbs. | Lobsters, fresh in shell, cwt. | Cod, dried, cwt. | Cod, tongues & s'ds, brls | Haddock, fresh, lbs. | Haddock, dried, cwt. | Hake, dried, cwt. | Hake, sounds, lbs. | Pollock, cwt. | Trout, lbs. | Smelts, lbs. | | Eels, brls. | Flounders, lbs. | Tom cod or frost fish, lbs. | Coarse and mixed fish, brls. | Fish, oil, galls. | Fish as bait, brls. | Fish as manure, brls. | TOTAL VALUE O ALL FISH | ı. | Number. |
| | | | | | | | | | | | | | | | | | | | \$ cts. | | |
| | | 600 | 2 | 2000 | 110 | 125 | 100 | 100 | | | | ر [٠٠] | | | | 200 | | 100 | 5,296 | 25 | 1 |
| | 125 | 300 | | 2000 | 150 | 200 | 300 | 50 | | | ' | • • | | | | 200 | 35 | 100 | | 50 | 1 2 3 4 5 6 |
| • • • • | $\begin{array}{c} 250 \\ 225 \end{array}$ | 600 550 | 3 | 3000 1500 | 225 600 | 275 600 | 350 300 | 80 150 | • • • • | | ' | • • | • • • | | | 300 200 | 45 50 | 75 | 7,603 | 75 | 3 |
| • • • • | 240 | 500 | 3 | 1000 | 900 | 1000 | 500 | 200 | | | • • • | | | | | 300 | 60 | 30 30 | | 00 | 4 |
| | 300 | 375 | 2 | 1200 | 1000 | 1200 | 550 | 275 | | | | | | • • • • | | 350 | 30 | 35 | | 50 | 6 |
| | 225 | 475 | 4 | 900 | 1200 | 1600 | 700 | 400 | | | | | | | | 450 | 50 | | 13,252 | 00 | 7 |
| | 150 | 2500 | 8 | 3000 | 3000 | 5000 | 10000 | | | | | | | | | 1200 | | 20 | | 00 | 8 |
| | 20 | | | 100 | | 500 | 100 | 100 | | | | | | | | | 25 | 25 | 1,528 | 00 | 9 |
| 2000 | | 300 | 1 | 800 | 300 | 400 | 100 | 100 | | | | | $ \cdots $ | | | 200 | 150 | 75 | | 50 | 10 |
| • | | • • • • • | | • • • • • | | • • • • • | • • • • • | | 200 400 | 1000 | 500 | 1 | enc. | 1000 | 9000 | ' | | | | 00 | |
| • • • • | • • • • | | | •••• | | | | | 300 | | | | JUU | 1000 | 2000 | | | | | 00 | |
| | | | | | | | | | 800 | 100 | | | | | | | | [] | 80 | | |
| 2000 | 1535 | 6200 | 28 | 15500 | 7485 | 10900 | 13000 | 3955 | 1700 | 1100 | 600 | 3 | 600 | 1000 | 2000 | 3400 | 1975 | 490 | | | : |
| | 7075 | 24800 | | | 22455 | 04505 | 6500 | 7010 | 170 | 55 | | 30 | 30 | | 4000 | | 2962 | | 116,624 | - | ŀ |

63 VICTORIA, A. 1900
RETURN showing the Number, Tonnage and Value of Vessels and Boats,

| | | Fis | HING | VES | SELS | AND | Воа | TS. | ١ | Fishi | ng G | EAR | or M | ATER | lIALS | • |
|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------|--------|------|----------------------------------------------|-----------------------------------------------------------|--------------------------------------------------|-----------------------------------|-----------------------------------------|-------------------------------------------|-------------|------------|-------------------|---------------------------------|-----------------------------------------------------------|
| | Districts. | | Ves | sels. | | | Boats | | Gi | ll Ne | ts. | s | eines | . | We | irs. |
| Number. | | Number. | Tonnage. | Value. | Men. | Number. | Value. | Men. | Number. | Fathoms. | Value. | Number. | Fathoms. | Value. | Number. | Value, |
| | King's County. | | | \$ | | | \$ | ! | | | \$ | | | \$ | i | * |
| 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 | Starr's Flats Kingsport. Porter's Point Blomidon Baxter's Harbour. Hall's Harbour. Hunting Point Chipman's Brook Black Rock Harbourville Morden Scot's Bay. Avonport Gaspereaux River Bout Island Little Island Long Island Kentville River | 1 2 | 19 32 | 500 | 3 9 | 15 20 2 4 8 7 5 9 15 | 300 300 40 80 160 140 200 450 225 | 30 40 4 4 16 14 10 18 15 | 18 20 2 4 8 4 5 | 600 600 120 240 125 1750 | 300 300 30 60 120 60 60 | 1 1 1 | 750 300 | 450 200 300 | 9 1 2 2 4 4 3 | 10 7 25 120 135 15 20 25 50 40 |
| | Totals | 3 | 51 | 1700 | 12 | 85 | 1895 | 151 | 61 | 3615 | 1655 | 6 | 3100 | 1900 | 40 | 555 |

SESSIONAL PAPER No. 11a

Nets, &c., and Quantity and Value of Fish, &c.—Nova Scotia—Con.

| | | | | | K | INDS C | r Fi | sH. | | | | | | | | | |
|---------------------|------------------------|----------------------|-----------------------|-----------------------|--------------------------------|-------------------|----------------------|-------------------|-------------------------------------------------|---------------|-------------|-------------|--------------------------------------|---------------------|-----------------------|-----------------------------|----------------|
| Salmon, fresh, lbs. | Herring, salted, brls. | Herring, fresh, lbs. | Herring, smoked, lbs. | Mackerel, fresh, lbs. | Lobsters, fresh in shell, cwt. | Cod, dried, cwt. | Haddock, dried, cwt. | Hake, dried, cwt. | Pollock, cwt. | Halibut, lbs. | Trout, lbs. | Shad, brls. | Alewives or gas- pereaux, brls. | Fish as bait, brls. | Fish as manure, brls. | Total Value (ALL Fis | of |
| | | | | | | | J | | | | | | | | | - \$ c | ts. |
| | | | | | | | | | | 450 | | 135 75 | | | 30 | | 00 |
| 200 2000 | 50 600 | 1000 | 4000 | | | 140 | 120 | 60 | 150 | 250 900 | | 35 | | 250 | 60 100 | 385 | 00 00 00 |
| 8000 1200 | 500 150 | | | | | $\frac{200}{125}$ | 900 75 | 100 40 | 75 25 | 500 | | | | 200 20 | 90 | 7,870 | 00 |
| $\frac{1500}{3200}$ | 90 300 | | 50000 | | | 100 150 | 60 20 | 30 10 15 | $\begin{array}{c} 20 \\ 150 \\ 100 \end{array}$ | 600 100 | | | | 50 100 | 45 50 | 4,007 | 00 50 |
| 4000 5000 500 | 150 60 543 | | 60000 250000 | 2000 | 187 | 140 90 175 | 75 40 60 | 40 | 25 50 | 750 | | 543 | | 75 50 150 | 40 25 200 | 1,857 | 25 50 00 |
| 80 800 | | | 250000 | 2000 | | | | | | | 1000 | | 500 200 | 1.,0 | | 2,016 1,060 | 00 |
| 100 | | | | | | 10 4 | | | | | ` ` | 140 30 | | | | 1,440 316 | 00 00 |
| • • • • • | | | | | | 7 | | | | | 700 | 35 | | | | 378 70 | 00 |
| 26580 | 2443 | 1000 | 364000 | 2000 | 187 | 1141 | 1350 | 295 | 595 | 3550 | 1700 | 993 | 700 | 895 | 640 | | ا |
| 5316 | 9772 | 10 | 7280 | 240 | 935 | 4564 | 4050 | 663 | 1190 | 355 | 170 | 9930 | 2800 | 1342 | 320 | 48,938 | 25 |

^{7,500} lobsters sent alive to Boston.

RETURN showing the Number, Tonnage and Value of Vessels and Boats, Nets, &c.,-Nova Scotia -Continued.

| | | | Number. | | - 67 | <u>ო</u> | + £ | . . | | α σ | = | Ξ, | 21: | 3. | 15 | 91 | -1 | <u> </u> | : 5 | 32 | 81 | | | | | | | | | | |
|---------------------------|------------|-----------|----------------------------|---------------|--------------------------|--------------|------------------|-------------------------------------------------------------|---------------|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|----------------------|------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|------------------|----------------|-----------------|-------------------|-------------|-----------------------|----------------------------------------------|-----------------------|--------------|--------------------|------------------------------|----------------------------|-------------|---------------|
| | •: | 1W9 | Cod, dried, | 000 | 170 | គ្គ | <u>₹</u> | |)S | ĭ <u>ĕ</u> | ক | æ | <u> </u> | 66 | 218 | 202 | 830 |) (2) (3) | 177 | : : | : | | 3 | 550 | : | 198 | 15. | | 8 | 29227 | 116908 |
| | u | i de | Lobsters fro shell, cwt | 0200 | | 051 053 | 000016 | 140 | 2100 | S 2 | 9 | 016 | 0±15 | 30% | 1372 | 280 | 1200 | 1332 | G. A | ° 90 | L~ | 25 | 761 6 7 | 86 | 449 | 122 | 137 | 971 | | 223222 | 1116110 |
| Fish. | 1 | | Lobsterspr in cans, 1 | | | : | | | 8160 | 1164 | | : | : | : | | | : | | : | : : | : | | | | 16800 | : | : | | | 29424 | 5885 |
| OF | - | qsə.ŋ | Mackerel, 1 lbs. | - 6 | GG : | | 99 | 90 | : | :37 | · · | : | : | : | | | : | 5 | 38 | 88 | | : | : | | : | : | : | | | 5362 | 643 |
| KINDS | í. | овую | Herring,sm lbs. | 1800 | 1001 | : | : | | : | 31000 | | : | : | : | | : | : | . 0 | 908 | | : | : | : | | : | : | : | : | | 51100 | 1022 |
| | | ųsəa, | Herring, 1 lbs. | 000000 | 8700 | 18000 | 999 | 120000 | 800000 | 00000 | 9 | 1000 | 0000 | | 100000 | 10000 | 00001 | 000 | 1000 | 3000 | 8000 | 1000 | 5 | | | : | : | : | : | 960 1614600 | 16146 |
| | ' [| oətla | Herring, s. brls. | 3 | 21 | : 8 | રું - | . S | : | . 050 | 3 : | : | : | : | : : | | : | : 6 | 3 | 2 8 | : | £ | : | 9 | : | 63 | 05. | : | 3 | 960 | 3840 |
| | _ | | Salmon, fre | 976 | رخ : | : | . 2 | 33 | 505 | 2 | : : | : | : | : | | : | : | : | : | : : | : | : | : | | : | : | : | : | : | 1150 | 230 |
| | | irs. | Δ | w g | 100 | | 200 | 9 9 8 8 8 | | 00 20 20 20 20 20 20 20 20 20 20 20 20 2 | | : | | : | | | | | 5 5 | 13 | | 100 | - <u>:</u> | | | | : | | | 2875 1 | : |
| 7 | MINES. | Weirs. | $X_{ m umber}$ | ó | c | | .ı – | | : | 24 | | - <u>:</u> | : | : | | | : | : 1 | - 15 | ·— | : | 31 <u>.</u> | : | | : | : | <u>:</u> | <u>:</u> | : | 25 | : |
| N Ame | AAIE | | Value. | y. 5 | 200 | : 3 | 9 :i | . 8 | - 1 | 8 5 | 1 | 275 | િ | : | :00 | | 9 | 9 | : | : : | : | : | : | | : | : | : | : | : | 7352 | : |
| a | 100 | Seines. | Fathoms, | 1 | 38 | : | 3. | :3 | : | £ 5 | : | 000 000 | 3 | : | 5.00 | | <u>00</u> | <u>§</u> | : | : : | : | : | : | | : | : | : | : | : | 2990 | • |
| 2 | EAR. | x | Zumber. | | 1 01 | | _ | = | : | ÷1 ÷ | 1 : | œ. | - | : | : 60 | : | ب | Ξ | : | : : | : | : | : | : : | : : | : | : | : | : | 35 | : |
| . : | 2 | | .ənlaV | 1/2 | 071 071 170 170 | 10 9 | <u>6</u> 9 | 7 9 | 175 | 3 8 | - S | 61 00 00 00 | € 1 | G ! | 5 5 | 13 | 9 | رن درن درن | 9 6 | : S | :: | <u>.</u> | 3 | - 67 | : | 6 | 961 | | | 3838 | - |
| Premise Guan On Markelals | LISHI | Gill Nets | Fathoms. | 3.6 | 3 2 | 908 | 999 | 99 | 200 | 21 5 54 5 | 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 1000 | ភ្នំ | 3 5 | 7 2 | 300 | 000g | 200 | 3 5 | £ \$ | 3 | 00c | 999 | 28 | : | 210 | 0 1 8 | : | | 14230 | |
| | | Gi | Zumber. | - | 2 7 | :2: | ≘ ∘ | c oc | 33, | 2: | <u>.</u> | 50 | ဗ | 3 | 13 | 12 | 100 | : <u>G</u> : | 2 | 7.0 | က | 2 | œ | عن | : | ı- | <u>د</u> ر ح | | | 655 | : |
| - | . | | Men. | 8 | S 33 | 8 | 14.0 | 0 9 | # | 7 2 | <u> </u> | 00 | <u> </u> | <u>o</u> 3 | 3 3 | န | 9 | 2 | κç | 1 x | ဗ | 20 | 3 | <u>. </u> | : : | : | - : | <u>.</u> | 55 | 877 | : |
| , and | DOATS | Boats. | \mathbf{valne} | ø, | 6 9 6 9 | 00+ | 0 1 8 | 000 1000 1000 1000 1000 1000 1000 1000 | 1300 | 9 9 9 9 | 120 | 1500 | 02.5 | 010 | 04+ 73-50 | 9 | 5940 | 2003 | 3 6 | § & | 9 | œ | | 2.6 | 750 | 175 | 175 | 055 | 24:00 | 22440 | |
| | AND | _ | Zədımı X | <u></u> | <u> </u> | 2 | ล. | #10 | 31 | t 3 | c m | Ş | က | | = = = = = = = = = = = | : 2 | \$ | # 1 | 4 4 | o -1 | က် | 41 | ₹° | 3 70 | 8 | t- | t~ | 20 | 89 | 510 | |
| | κ. Σ | | Men. | | 7.7 | : | : | : | : : | : | | | : | : | : = | • | 10,0 | 35 | • | : | | : | : | = | • | 10 | œ | : | : | 519 | Ī ; |
| 1 | V ESSELS | els. | Λ alue. | | 15500 | : | : | : | | : | : | | : | : | 1900 | 177 | 8200 | 15400 | 3 | : | | : | | 1850 | 201 | 405 | 630 | | | 43485, | : |
| | SHING | Vessels. | . эзвипоТ | | 100 | | | : | | | | | : | : | 5 | 3 | 268 | 530 | 33 | : | | : | : | : = | 3 | 2 | 16 | - · : | | 153 | |
| F | 7 | | Number. | | 2 | : : | : | | | : | : | | : | : | | - | <u></u> | 37 | 21 | : | | : | : | : - | 4 | 2 | - | : | : | 21 | : |
| | | • | Districts. | Digby County. | Digby Bav View | 3 Broad Cove | Roseway | Gwaterford | 7 Centerville | Sandy Cove. | Mink Cove | Little River. | Long Beach | 13 Whale Cove | 4 East Ferry | 16 Central Grove | I7 Freeport | 18 Westport | Smith's Cove | 20 Brighton | 22 Doty's Landing | 23 Weymouth | 24 New Edinburg | Chungh Doint | 27 Meteohan and River | Bear Cove | 29 Cape St. Mary's | 30 Salmon River and vicinity | Oth'r places not mention'd | Totals | Values\$ |

RETURN showing the Kinds, Quantities and Value of Fish, &c.—Nova Scotia—Continued.

SESSIONAL PAPER No. 11a

| Number, | | |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| O.F. | 1 | 15 |
| EAI Fais | - 5212388251144488515845885888518844588886 : | 8 |
| Total alue c ll Fisi | \$56009 5214 5214 5214 5214 5339 601132 4757 67777 1971 1971 1971 19883 725 725 725 725 725 725 725 725 725 725 | ļŝ |
| Total Value of All Fish. | | 9093083 |
| Fish as manure, br | 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 | 16987 |
| Fish as bait, brls. | 25 | 97.10% |
| Fish oil, galls. | 6000 400 400 400 400 400 400 100 1 | 17838 |
| Coarse &mixed fish, bris. | 10000 1000 1000 1000 1000 1000 1000 10 | 64800 |
| Flounders, lbs. | 1000 3000 3000 3000 3000 3000 1200 1000 10 | 763 |
| Rels, bris. | 27 | 120 |
| Bass, Ibs. | 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 147 |
| Alewives, brls, | 58A 8 | 320 |
| Smelts, lbs. | 900 6000 15000 10000 12500 | 1275 |
| Shad, bris. | 89 | 2020 |
| Trout, lbs. | 1320 10 10 10 10 10 1320 1320 1320 1320 | 132 |
| Halibut, lbs. | 700 800 800 800 500 500 500 1050 1300 1300 1300 1300 | 74387 |
| Pollock, cwt. | 1061 5 60 80 80 80 80 80 80 80 80 80 80 80 80 80 | 62394 |
| Hake sounds, | 16700 1000 1000 1000 1200 3500 3600 3600 3600 3600 3600 3600 36 | 24675 |
| Hake, dried, cwt. | 15000 311 4115 350 350 2500 2500 450 1100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 11100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 10 | 969981 |
| smoked fin- nan haddies, lbs, | 855000 10000 250000 300 4500 300 300 1159800 | 69588 |
| Haddock, dried, cwt. Haddock, | 12000 280 280 290 290 200 200 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 1150 | 143985 |
| Haddock, fresh lbs. | 380000 15000 15000 15000 15000 15000 100000 100000 100000 100000 100000 100000 10000 10000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 | 67619 |
| and sounds, | 0000004110 01400 401705514 | 086 |
| Cod tongues | | 66 |
| District. | Digby County. 1 Digby. 2 Bay View. 3 Broad Cove. 4 Roseway. 5 Gulliver's Cove. 6 Waterford. 7 Centerville. 7 Centerville. 10 White Cove. 11 Little River. 12 Little River. 13 Whale Cove. 14 East Ferry. 15 Tiverton. 16 Central Grove. 17 Freeport. 18 Wetport. 18 Wetport. 19 Smith's Cove. 20 Brighton. 22 Doty's Landing. 23 Weymouth. 24 New Edinburg. 25 Weymouth. 25 Doty's Landing. 26 Church Point. 27 Metoghan and River. 28 Belliveau Cove. 26 Church Point. 27 Metoghan and River. 28 Bear Cove. 28 Gape St. Mary's. 39 Salmon Riverand vicinity. 30 Other placesnot mentioned | Values |

 $11a - 6\frac{1}{2}$

63 VICTORIA, A. 1900

| FISHING | Vessels | Литрет. | Lunenburg County. | Cunenburg, Upper and Lower South Rose Bay, Kingsburg, Black and Blue Rocks, Back Harbour to Cross Island 68 5778': LaHave, East side, Ritcey's Cove. Ironbound Island. | West, to 56 | etite fultiere, broad and Vogler's Cove to county line. 8 585 | 5 Mahone Bay and Martin's Riv 22 1681 | 7 Will Cove. | 9 North-west Cove. | 10 Aspotogan 11 Sandy Beach to Bayawater | 12 Blandford 13 Little Tancook 14 Bla Tancook 15 Deep Cove. | ls 157 12643 | |
|----------------------------|---------------|---------------------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------------------------------------------------------|---------------------------------------|-----------------------|--------------------|------------------------------------------------------------------------------|-------------------------------------------------------------|-----------------|----------------|
| FISHING VESSELS AND BOATS. | sels. | Value. | 9 5 | 5778 260010 1095 | 1532 203940 878 | 26325 113 | 58500 311 | | | : | 975 13 | 549750 2410 | 1 |
| AND BO | Å | Number. | | 545 | 556 | 172 | 210 | | | ଛ୍ୟ | 3 3 3 3 3 3 3 3 3 3 3 | 2393 | <u> </u> - |
| ATS. | Boats. | Value. | 99- | 12900 120 | 12530 140 | 5740 90 | 200 | 1500 125 | 400 85 85 | 250 400 400 | 3000 180 1375 55 300 20 | 65245 1436 | 1 |
| | . E | Number. | | 120 2025 4 | 140 2400 4 | 1000 | | - : : | <u>:</u> : | : | | 5425 | 1 |
| ; 111 | Gill Nets. | Fathoms. | | 40500 20 | 48000 2 | , , | - | 1000 | 1500 | 0000 | | 320000 97 | 1 |
| ISHING | _ | Value. Value. | 99 | 20250 1 | 24000 | 10000 | | | | - - - - - - - - - - - - - - - - | | 97750 212 | 1 |
| GEAR C | Seines. | Fathoms. | | 15 1500 | 5 500 | 400 | | | | | 34 2720 111 1100 25 3000 6 660 | 2 20980 | |
| FISHING GEAR OR MATERIALS | i | Value. | ev. | 3750 | 1250 18 | 1000 | 1000 | | | 2000 | | 36850 | Ī |
| ERIALS. | Trap Nets. | Number. Value, | % | 20 1798 | 18 4500 | 7 1750 | | | · : | : | 2 350 | 1 38 | 1 |
| | Trawls | Number. | | | 501 | | : ::: | : : | : : | : | 350 | 18593 1365 | T |
| | wls. | Value. | ¥; | 816 24480 | 15030 | 1440 | | | | | | 40950 13564 670 | - |
| ! | | Salmon, fresh, | | 27. | 3247 270 | 810 | 3000 | : : 0:2:5 7:4:5 | : 3æ | : 2 | 0.00 pg | 3564 67 | <u> </u> |
| KINDS | | Herring, salted | | | 262 | 195 | | 8 <u>12 1</u> | | : | 200 1500 8 | ! | - |
| KINDS OF FISH. | sql | Herring, fresh, | | 2400 | 3000 | 1200 | - | N 54_ | | : | 120000 | 2975 133200 | |
| | 'sql ' | Mackerel, fresh | | 250 | 350 | 100 | | 0000 | | 2400 2400 | 200 | 61300 563 | 1 |

RETURN showing the Kinds, Quantities and Value of Fish, &c.-Nova Scotia-Continued.

| Zumber. | | | 63 | w 4 | ညာတာမ | - oo c | 2= | 25 | 272 | | |
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| Total Value of all Fish. | ί | ಣ | 323,466 20 | 38,279 50 23,631 60 | 197,755 50 16,278 50 | 1,349.50 | 13,601 20 | 5,215 00 3,109 50 | 18,727,81 57,727,73 56,585 | | 40297 4506 255 1,052,140 60 |
| Fish as manure, brls. | 1 | : | : | | :0:2 | 10 | : : · | 8 | 500 | 510 | 255 |
| Fish as bait, bris. | | 23 | * | 20 oc | 999 | 388 | 84 | 83 | 38.5 | | 200 |
| Fish oil, galls. | | 63084 | 51900 | 6150 350 | 11200 300 150 | 388 | 22 | 900 | 200 | 134324 | 40297 |
| Coarse and mixed fish, bris. | | | : | 250 | 0000 | 888 | 88 | 8 8 8 | ន់ទីន | 1320 | 01-98 |
| Squid, brls. | | : | : | :38 | 08 20 2 | 10.10 | : | 8 | :82 | 200 | 2000 |
| Tom cod or frost fish, Ibs. | | 2%0 | \$ £ | 300 | .609. 170 | | | 906 | : : : | 3750 | 187 |
| Flounders, Ibs. | | 99.00 8.00 | 001 | 300003 | 1-2 | 2000 2000 2000 | | | 3000 | 264730 | 560 1600 13236 187 2000 8640 |
| Kels, bris. | | 위 | ধ্ব | చ్ది | \$1 2 ° α | ; , , | 4 m | 2 | 16 | · - | 1600 |
| Alewives or gaspereunx, brls. | | ; | ? 1 | . 90 | <u>x</u> : | ن و ر | : | : | : : : | | |
| Smelts, lbs. | | 200 | 7500 | 2000 | 2500 | | | | | | 780 |
| Shad, bris. | | | 551 | | : : | | : : | | | | 140 1500 |
| Trout, ibs. | | : | : | 1200 | | | ::: | | | 1400 | |
| Halibut, Ibs. | | 96000 | 48100 | 1000 | | | | 200 | 1000 | 182300 | 205 1740 18230 |
| Pollock, cat. | | 248 | 166 | → : : | | | 20 | | | | 1740 |
| Hake sounds, lbs. | | : | : | : : | ,- | | : : | | | - | |
| Наке, чтіед, сит. | | 309 | 9 | :8 | | | | : | | 1524 | 3429 |
| Haddock, dried, cwt. | | 3413 | 1413 | 주 구 | = - | 원묘 | 10 T | \$ <u>15</u> | 80 00 to | 7534 | 2490 22602 3429 |
| Haddock, fresh, lbs. | | : | : | • | | | : : | | 0000 | 4 | i |
| Cod tongues and sounds, brls. | | | 88 | | | : } | : : | | | | 1760 |
| Cod, dried, cwt. | | | 72463 | | | | | | | 215303 | 5265 861212 1760 |
| Lobsters, fresh in shell, cwt. | | 500 | 340 | | 11212 | | 5 % | 유.º | 5.5 | 1053 | 5265 |
| Lobsters, preserved in cans, lbs. | | 26:400 | 7104 | 55008 | | | | | | 148128 | 29625 |
| Districts. | Lunenbury County. | unenburg, Upper and Lower South Rose Bay Kingsburg, Black and Blue Rocks, Back Har- bour to Cross Island aHave-East side, Ritcey's Cove, Ironbound Island. | LaHave, Middle, West, to New Dublin. etite Rivière, Broad and | vogrer's Cove to county line hester Iahone Bay and Martin's | River ox Point | | | landfordittle Tancook . | ig Tancook | Totals | Values |
| | Lobatera, preserved in cana, iba shell, cwt. Cod, dried, cwt. Cod, dried, cwt. Cod, dried, cwt. Haddock, fresh, iba. Hake, dried, cwt. Hake, dried, cwt. Pollock, dried, cwt. Trout, iba. Smelts, iba. Smelts, iba. Trout, iba. Trout, iba. Trout, iba. Trout, iba. Trout, iba. Trout, iba. Trout, iba. Trout, iba. Trout, iba. Trout, iba. Trout, iba. Trout, iba. Trout, iba. Trout, iba. Trout, iba. Trout, iba. Trout, iba. Trout, iba. Trout, iba. Trout, iba. Trout, iba. Trout, iba. Trout, iba. Trout, iba. Trout, iba. Trout, iba. Trout, iba. Trout, iba. Trout, iba. Trout, iba. Trout, iba. Trout, iba. Trout, iba. Trout, iba. Trout, iba. Trout, iba. Trout, iba. | Lobaters, preserved lobaters, fresh in shell, cwt. Cod, dried, cwt. Cod, dried, cwt. Haddock, dried, cwt. Hake, dried, cwt. Hake, dried, cwt. Hake, curich, lbs. Pollock, crt. Trout, lbs. Smelts, lbs. Smelts, lbs. Smelts, lbs. Fels, brls. Fels, brls. Fish as bait, brls. Bish, brls. Fish, brls. Fish, brls. Fish, brls. Fish, brls. 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RETURN showing the Number, Tonnage and Value of Vessels and Boats, Nets, &c.—Nova Scotia—Con

| | | Number. | | — c | | 4 | ت. د | φı | - 00 | ₅ 2 | Ξ | |
|----------------------------|-------------|----------|-----------------|----------------------------------------|------------------------------------------|----------------------|---------------|------------------------|---------------------------------------|-----------------------------|------------------|------------------|
| | Nets. | Value. | 9 6- | : | | | : | : | .00 | | : | 400 |
| | Trap Nets. | Number. | | : | | | | : | - | | : | 1 |
| ERIALS. | | Value. | ÷ | 650 | 5 | | : | : | : | | : | 1210 |
| R MAT | Seines. | Fathoms. | | 320 | 2.5 | | : | | | | -:- | 570 |
| GEAR O | <i>3</i> 2 | Number. | | ကင | 1 | | <u>·</u> : | :- | · · · · · · · · · · · · · · · · · · · | - : | : | , c |
| Fishing Grar or Materials. | | Value. | ¥; | 2100 | 1935 | 909 | 1855 | 511 | 1050 | 39 2 8 | - : - | 10573 |
| Ę | Gill Nets. | Fathoms. | | 5403 | 37.5 | 1342 | 47.70 | 1317 | 2700 | £ £ | | 1506 26816 10573 |
| | E | Zumber. | | 300 | 128 | 52 | 365 | (C) | 120 | x x | : | 1506 |
| | | Меп. | | 52 | 9 | 42 | 3 5 | # 3 | 8 \$ | ខ្ល | 8 | 487 |
| ź | Boats. | Value. | ¥ ₽ | 1150 | 3 12 | 026 | 1850 | 985 5 | 6 6 8 8 8 | 140 240 140 | 8. | 8248 |
| ар Воа | 8 | Number. | | _ | ? 4 | 45 | 105 | 93 | 8 3 | 28 | ဗ | 466 |
| Fishing Vessels and Boats. | | Men. | | 31 | . न : | - | J.C | : | 17 | : : | : | 159 |
| ve Ves | ž | Value. | ¥. | 5100 | 200 | 9 | 009 | | 2500 | : | | 0026 |
| Fіяни | Vessels. | Топпа | | 141 | : | <u>~</u> | 17 | : | .66 | : : | | 274 |
| | | Number. | | - → | · _ | · - | <u> </u> | : | - - | : | | oc. |
| |) intricts. | | Queen's County. | 1 Liveryool, Brooklyn and Gulls Island | ern nead, Moose narbour and Diack Follic | Joli and Port Hébert | Mouton | Head and Beach Meadows | and mast Derlin | 9 Milton 10 Mill Village | held | Totals |
| | | | ~~ | Live | Kes. | Port | Port | Eagl | Port | Z Z Z Z | 11 Greenfield | |
| | | Number. | | 0 | .1 04 | 7 | ı | <u>ت</u> د | - ∞ | ລ⊊ | ; = | |

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SESSIONAL PAPER No. 11a

Zumber. 28888888888888 30 VALUE OF ALL FISH 2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,920 (2,9)))))))))))))))))))) TOTAL 39,591 82328 165 Fish Products. Fish as bait, brls. 919 720 Fish oil, galls. 5838 425 130 bereaux, brls. Alewives or gas-8 8 Trout, lbs. 330 9 Halibut, lbs. ន្តន្តះ 55 Pollock, ewt. 8 13 Hake, dried, ewt. KINDS OF FISH. 88828 870 Haddock, dried, cwt. 22160 Cod, dried, cwt. 18080 3616 Lobsters, fresh in shell, 32093 25920 4752 59280 51312 19200 160464 Lobsters, preserved in cans, lbs. 0876 99999848 Herring, salted, brls. 88 2 Salmon, smoked, lbs. 16250 3250 Salmon, fresh, ibs. 1 Liverpool, Brooklyn and Gulls Island.
2 Western Head, Moose Harbour and Black Pt.
3 White Point, Hunt's Point and Summerville.
4 Port Joli and Port Hébert
5 Port Mouton.
6 Eagle Head and Beach Meadows.
7 West and East Berlin.
8 Port Medway.
9 Milton.
10 Mill Village.
11 Greenfield. Port Mouton

Eagle Head and Beach Meadows Queen's County. DISTRICTS. Number.

RETURN showing the Kinds, Quantities and Value of Fish, &c.-Nova Scotia.-Com.

RETURN showing the Number, Tonnage and Value of Vessels and Boats, Nets, &c.—Nova; Scotia -- Continued.

| | , | Zumber | | 7 - 5 4 - 6 - 4 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 | |
|----------------------------|---------------------------------------------------|------------------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| | mi bəv | Lobsters, preser | | 225584 2000 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 225584 22558 225584 225584 225584 225584 225584 225584 225584 225584 225584 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 22558 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 22558 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 225586 22558 225586 225586 225586 225586 225586 225586 225586 225586 225586 2 | 87993 |
| <u>.</u> | strd , | Mackerel, salted | | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | |
| Kinds of Fish. | .sdl | Mackerel, fresh, | | 15000 1000 500 500 300 300 400 | 8124 |
| Kind | pajs. | Herring, salted, | | 38 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | 21884 |
| | pe. | Salmon, fresh, l | | 3000 | |
| | Nets. | Value | X | 11000 11500 1500 1500 1500 1500 1500 15 | 1+700 |
| IAI.s. | Trap Nets. | Zumper. | | | o |
| ATER | | ·ənpr.\ | У. | 00 00 00 00 00 00 00 00 00 00 00 00 00 | 8 : |
| FISHING GEAR OR MATERIALS. | Seines | Eathoms. | _ | | 007 |
| (†EAR | | Zamber. | | | 6 |
| JNG I | 1 2 | Value. | · y . | | r ; |
| ¥.I.A. | Gill Nets | Lathoms. | | | SZUMM |
| | i | Zumber. | | | <u> </u> |
| ŗ. | | Men. | | | } : : |
| Волг | Boats. | ·ənpa-A | ¥. | 2000 2000 2000 2000 12000 1400 1400 1800 1800 1800 1800 1800 1 | C198 |
| NVV S | | Zumber. | | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 60.1 : |
| SSEL | | Men. | | • | 207 |
| Fishing Vessels and Boats. | Vessels. | Value. | æ | 27000 1350 1350 1350 1000 1000 1000 175 300 300 300 300 300 300 300 300 300 30 | 00676 |
| Pishi | 3. | Топпаде. | - | 888 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | 2418 |
| | <u> </u> | Zamper | | | e ∕ |
| | | Districts. | Shelburne County. | 1 Barrington 2 Wood's Harbour 3 Sha Harbour 4 Ban gulartour 5 Cape Island 7 Upper La Tour and Baccavo 6 Cape Negro and Blanche 9 Cape Negro land 10 Dort Clyde 11 North-east Harbour 12 Black Point, Red Head and Round Bay 13 Roseway and McNutt's Island 14 Gunning Cove, Churchover and Birchtown 15 Shelburne and Sand Point 16 Jordan | Totals |

RETURN showing the Kinds, Quantities and Value of Fish, &c.-Nova Scotia-Continued.

| | | | | | | - 4 | Kinds of Fish. | F Fish. | | | | | | | | |
|----------------------------------------|--------------------------------|------------------|----------------------------------|----------------------|-------------------------------------------|---------------|----------------|-------------|-------------|-------------------------------------------|--------------------------------|---------------------------------|------------------|---------------------|--------------------------------|----------------------|
| Districts, | Lobsters, fresh in shell, cwt. | Cod, dried, ewt. | Cod tongues and sounds, bris. | Haddock, dried, cwt. | finnan haddies, Ibs. Hake, dried, cwt. | Pollock, cwt. | Halibut, Ibs. | Trout, lbs. | Smelts, lbs | Alewives or gaspereaux, brls. Rels, brls. | Tom cod or frost fish, lbs. | Coarse and mixed fish, brls. | Fish oil, galls. | Fish as bait, bris. | Total Value of all Fish. | Zumber. |
| Shelburne County. | | | | | | | | | | | | | | ' | ×. | cts. |
| urrington | 1750 | 3000 | | 500 | | 125 | | 009 | | . 00 | 95 300 | | - 007 | 0000 | 30 015 | |
| 2 Wood's Harbour | 15000 | 200 | | 005 60 | : ; | 13 | 909 | : | | | | | 8 | | 3,75 | |
| 3 Shag Harbour. | 1700 | <u>9</u> | | 150 | : | <u>چ</u> | | 3.0 | | 30 | | | 900 | 000 | 17 215 | _ |
| ar Point. | 750 | 200 | : | 100 | : | : : | | | | ~ | | | 9 | 9 | 20.25 | |
| 5 Cape Island | 999 | 8000 | : | 000 | : | <u>e</u> | Ξ | : | | | | | 0008 | 900 | 205,166 | |
| 6 Port La Tour and Baccaro | 000+ | 1500 | : | 906 | : | 200 | | : | : | 000 | | : | 5000 | 1200 | 10,500 | |
| pper La Tour | 1250 | 90 | : | 9 | - : | <u>≅</u> . | | | | -: | - | | <u> </u> | 9 | 10,190 | |
| the Negro and Blanche | 909 | 9 61 | : | 550 | | - 15 | | : | | | | _ | 000 | 3 | 10.01 | |
| 9 Cape Megro Island. | 207 | <u>@</u> | : | 300 | : | ਤੌ। | | : | : | - <u>:</u> - <u>:</u> | | | 906 | Š | 26,530 | |
| 10 Port Clyde. | | 0. 2. 8. | | | : | : | : | <u>6</u> | | : | | : | : | 200 | 8,197 | |
| orth-east Harbour | 802 | 3 | | 125 | : | • | ٠ | • | | | | : | 99 | €. | 6,469 | |
| 12 Black Fourt, Ked Head and Kound Bay | 3 | 000 001 | : | 9 9 8 | - | × ; | 900 | <u>\$</u> | 9 | | | : | 909 | 100 | 12,560 | |
| 10 Roseway and McNutt Misland. | 3 3 | 3 | : | 978 978 | | \$ • | | 3 | | | | : | 9.5 | 9 | 9,10 | |
| 5 Shelburne and Sand Point | 8 | 15675 | œ | 0 | : | 7 6 | 300 | 900 | 9 | | | : | 969 | 3 5 | 9,49 | |
| 16 Jordan | 000 | 90£ | ÷ | | 8 | | | 950 | 9 | | | : | 1,800 | <u> </u> | 90,1/1 | - |
| | 3500 | 35000 | 2 | | 08: 00+ | 620 | 5000 | 1200 | | က | . s | - | 2330 | 1353 * | 20,915 175,352 (| 21 00 11 00 |
| Totals. | 95156 | 70585 | 2 | 10195 | 900 36 | 1820 | 113700 | 11000 | 5400 1245 | 245 11 | 1 3700 | + | 26130 2 | 23088 | : | : |
| - 11 | | | | | | | | | | 1 | | | | | - | i |

* 26,000 cans of cod valued at \$3,120.

63 VICTORIA, A. 1900

| | Ę | FISHING VESSELS AND BOATS. | SSELS | , AND | Boa | Ė | Fis | HING (| FISHING GEAR OR MATERIALS. |)R M. | ATERI. | Z. | | | 124 | ZINDS | Kinds of Fish. | H. | | |
|--------------------------------------------------------------------------------|---------|----------------------------|-------|---------|----------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|----------------------------|----------------------|--------|----------|--------------------------|------------------|-----------------------------|----------------|-----------------|--------------------------------|--------------------------------------------------------------|------------------|
| Dicempress | | Vessels. | | | Boats. | | 5 | Gill Nets. | ž | Trap Nets. | | Weirs | | -slrd | lbs. | t, lbs. | .sdl , | ni bəv | n spell, | |
| Districts. | Zumber. | Топпаве. | Меп. | Zumber. | Value, | Меп. | Number. | Fathonis. | Value. | Zmu ^h er. | Value. | Value. | Salmon, fresh, l | Herring, salted, | Herring, fresh, | Неттіпg, ѕшоке | Mackerel, fresh | Lobsters, preser cans, lbs. | Lobsters, fresh i cwt. | Cod, dried, ewt. |
| Yarmonth County. | | S. | | | ¥; | | | | × | | v. | | | | | | | | | |
| 1 Yarnouth 2 Port Maitland. | 21.3 | 928 234.00 26 550 | 240 | | 1800 | 888 | 0 0 0 0 0 0 0 0 0 0 | 1000 | | 31 31 0 | 4500 | - : : | 850 712 850 | • | 250 300000 1 | 96 | 64000 | 71000 | 1100 500 | 17378 1000 |
| natiord readia (est Pubnico. | | : :- | : :23 | | 5.00 S | | 38 2 3 | 350 350 350 350 350 350 350 350 350 350 | 830° | ; [| 3500 | | | | 2000 1000 2400 214000 | | 1300 47000 1 | 172368 | 1500 1500 1500 1500 1500 1500 1500 1500 | 12000 |
| 9 East Fuonto 7 Tusket Wedge 8 Tusket 9 Eel Brook. 10 Salmon River | | 364 9500 | | | 15 45 500 500 500 500 350 20 120 | 8528 | 55.55 5.55 5.55 5.55 5.55 5.55 5.55 5. | 3530 3730 2500 2500 | _ | :- : : : | 1500 | | 100 100 100 100 | 1550 | | | 65000 | 65000 223408 | 9500 | 2007 |
| Totals | 47.1988 | 988 51050 | 505 | 1 | 850 7880 1195 | 1195 | 3112 | 107990 | 18328 | 6 | 20500 | 4 74 | 740 6462 | 8150 | 844000 | 1700 | 356300 | 1700 656300 653976 | 18100 | 38978 |
| Values | | | 1 | : | | | 1 | | | 1 | | <u> </u> | 1000 | 00000 | 100 | 1 | | | | |

Number,

ž TOTAL VALUE ALL FISH. 2000 8250 2745 1025 Fish as manure, bris. RETURN showing the Kinds, Quantities and Value of Fish, &c.—NOVB Scotig.—Continued. 3650 1125 1500 :2888888 Fish as bait, bris. Fish oil, galls. 12001 8000 9200 18400 Coarse and mixed fish, 9101 Squid, brls. 30051 8 Tom cod or frost fish, 288 269 2690 | Eels, brls. Alewives or gas. pereaux, brls. 7200/2 :828 98 KINDS OF FISH. 18000 1000 Smelts, lbs. 2000 200 Trout, lbs. 62800 6280 :00 Halibut, lbs. 112725636 Pollock, ewt. 262 1800 1789 Hake, dried, cwt. 20000 10000 30000 Haddock, smoked fin-nan haddies, lbs. 2000 9640 28920 Haddock, dried, cwt. 5464 130000 Haddock, fresh, lbs. Cod tongues and sounds, bris. 8 Yarmouth County. DISTRICTS. 4 Arcadia
5 West Pubnico
6 East Pubnico
7 Tusket Wedge
8 Tusket
9 Salmon River
10 Fel Brook Values. 2 Port Maitland. Yarmouth | Number.

RECAPITULATION

OF the Yield and Value of the Fisheries in District No 3, Province of Nova Scotia, for the Year 1898.

| Kinds of Fish. | Quantities. | Rate. | Value. | Total. |
|------------------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------------------|-------------------------------------------------------|---------------------------------------|
| | | \$ ets. | \$ cts. | \$ cts |
| Salmon, fresh | 73,406 1,020 | 0 20 0 20 | 14,681 20 204 00 | 14 005 00 |
| Herring, salted Brls. "fresh Lbs "smoked " | $\begin{array}{c} 25,527 \\ 2,592,800 \\ 418,800 \end{array}$ | 4 00 0 01 0 02 | 102,108 00 25,928 00 8,376 00 | 14,885 20 |
| Mackerel, fresh" | 792,662 617 | 0 12 : 15 00 : | 95,119 50 9,255 00 | 136,412 00 |
| Lobsters, canned Lbs. | 1,431,960 | 0 20 | 286,392 00 | 104,374 50 |
| r fresh Cwt. Cod, dried " preserved Cans. | $302,863 \\ 366,974 \\ 26,000$ | 5 00 4 00 0 12 | 1,514,315 00 1,467,896 00 3,120 00 | 1,800,707 00 |
| tongues and sounds. Brls. Haddock, fresh. Lbs. | 331 2,534,620 | 10 00 0 03 | $\frac{3,310\ 00}{76,038\ 60}$ | 1,474,326 00 |
| dried | 84,489 1,190,700 | 3 00 0 06 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 400,947-60 |
| Hake, dried Cwt. sounds Lbs. | 96,525 62,760 | $\begin{array}{ccc} 2 & 25 \\ 0 & 50 \end{array}$ | 217,181 25 31,380 00 | , . |
| Pollock Cwt. Halibut Lbs. | 47,128 1,112,518 | 2 00 0 10 | | 248,561 25 94,256 00 111,251 80 |
| Trout "Shad Brls. Smelts Lbs. | 26,120 1,345 67,600 | $\begin{array}{c} 0 & 10 \\ 10 & 00 \\ 0 & 05 \end{array}$ | | 2,612 00 13,450 00 3,380 00 |
| Alewives Brls. Bass Lbs. | 4,390 740 | 4 00 0 10 | | 17,560 00 74 00 |
| Eels Brls Flounders Lbs Tom cod " | $\begin{array}{c} 618 \\ 280,600 \\ 68,550 \end{array}$ | 10 00 0 05 0 05 | | 6,180 00 14,030 00 3,427 50 |
| Squid Brls. Coarse or mixed fish " Fish oil Galls. | $ \begin{array}{r} 754 \\ 47,924 \\ 233,284 \end{array} $ | 4 00 2 00 0 30 | | 3,016 00 95,848 00 69,985 20 |
| Fish as bait Bris. Fish as manure " | 49,947 36,640 | 1 50 0 50 | | 74,920 50 18,320 00 |
| Total | | | | 4,708,524 5 |

RECAPITULATION

Or the Value of Fishing Vessels, Boats, Nets, &c., used in District N° 3, Nova Scotia, for the Year 1898:

| Material. | Value. | Total. |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|--------------------|
| | \$ | \$ |
| 3 59 vessels (19,361 tons). 6,246 fishing boats. 12,044 gill-nets (815,751 fathoms). 261 seines (30,246 fathoms). 142 trap-nets. 188 weirs. 4,578 trawls. 10,117 hand lines. 46 bág nets. | 755,985 153,073 181,054 48,060 55,193 11,495 69,738 14,668 1,093 | |
| 44 lobster canneries | 34,190 125,204 | 1,290,35 159,39 |
| 115 freezers and ice-houses 1,327 smoke or fish houses 462 piers or fishing wharfs 42 fishing tugs or smacks | 11,857 75,799 96,658 20,525 | 204,83 |
| Total | | 1,654,59 |

Number of Fishermen employed in the same District.

| Men in fishing vessels boats. Persons in lobster canneries. | 4,378 6,698 1,767 |
|--------------------------------------------------------------|-------------------------|
| Total | 12,843 |

RECAPITULATION

SHOWING the Number, Tonnage and Value of Vessels and Boats, and the quantity and value of all Fishing Materials in the whole Province of Nova Scotia, for the year 1898.

|]) | | Number. | | 2000 2000 2000 2000 2000 2000 2000 200 | | | | | | | | | | | | |
|----------------------------|------------|----------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------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| | Weirs. | Value. | 96 | 19 5,800 6 3 120 7 8 1,450 10 14 2,250 12 14 2,250 12 14 2,250 12 14 2,250 12 15 2,851 14 10 10 10 10 15 10 10 10 18 10 10 18 10 18 18 18 18 18 18 18 18 18 18 18 18 18 | | | | | | | | | | | | |
| | ≱ | Number. | | 8 12 4 12 4 12 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | | | | | | | | | | |
| | wls. | Value, | ¥. | 347 1,962 286 2,480 206 2,148 133 5,44 1,225 6,744 654 2,617 27 119 310 2,250 717 14,265 68 286 1,865 0,950 246 1,150 | | | | | | | | | | | | |
| | Trawls | Number. | | 347 286 7386 7386 11386 11,225 654 654 11,365 11,365 11,365 11,867 11,867 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,865 11,86 | | | | | | | | | | | | |
| RIALS. | Trap Nets. | Value. | ¥; | 6000 4000 3,2875 3,2875 3,2875 1,000 1,000 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 1 | | | | | | | | | | | | |
| MATE | Trap | Number. | | 1 | | | | | | | | | | | | |
| Fishing Gear or Materials | | Val n e, | Α. | 750 600 8,386 60,255 7,350 1,900 1,210 730 113,035 | | | | | | | | | | | | |
| HING G | Seines | Fathoms. | | 3 3500 223 3.425 353 3.425 353 3.100 6 3.100 6 3.100 3 2.500 3 2.500 6 3.000 | | | | | | | | | | | | |
| Fis | | Number. | | 8 | | | | | | | | | | | | |
| | | $oldsymbol{V}$ alue, | € | 26,534 39,413 10,524 2,743 3,828 3,828 3,828 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,430 1,4 | | | | | | | | | | | | |
| | Gill Nets. | Fathoms. | | 69, 172 86, 58, 88 86, 88, 88, 88, 88, 88, 88, 88, 88, 88, | | | | | | | | | | | | |
| | | Number. | | 2,677 11,18230 1,18230 1,18230 1,18230 273 473 10,2733 10,2733 10,2733 11,5000 3,112 3,112 3,112 3,004 | | | | | | | | | | | | |
| | | Жеп. | | 20,847 20,846 20,847 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 1,195 | | | | | | | | | | | | |
| ATS. | Boats. | Boats. | Boats. | Воатя. | Boats. | Boats. | Boats. | Boats. | Boats. | Boats. | Boats. | Boats. | Boats. | Λ alue. | S. | 20,334 2,113 2,204 20,334 2113 2,204 22,157 2,473 12,230 12,337 318 678 2,938 322 473 8,208 37 473 1,037 2,816 10,273 1,037 2,816 10,273 1,037 2,816 10,273 1,038 376 406 299 6,002 4,86 10,273 1,248 77 675 22,440 877 675 22,440 877 675 8,248 113 5,428 8,248 113 385 8,248 113 6,428 8,248 113 6,428 8,248 113 6,428 8,248 113 6,428 8,248 113 6,428 8,248 113 6,428 8,248 113 6,428 8,248 113 6,428 8,248 113 6,428 8,248 113 6,428 8,248 113 6,428 8,248 113 6,428 8,248 113 6,428 8,248 8,248 113 6,428 8,248 113 6,428 8,248 113 6,428 8,248 113 6,428 8,248 113 6,428 8,248 113 6,428 8,248 113 6,428 8,248 113 6,428 8,248 113 6,428 8,248 113 6,428 8,248 113 6,428 8,248 113 6,428 8,248 113 6,428 8,248 113 6,428 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 8,248 |
| AND BC | | | | | | | Number. | | 67 612 286 1,422 18 5,452 18 5,452 104 2,113 40 2,408 5,40 2,103 109 119 109 119 2,410 2,133 2,410 2,408 5,434 15,358 | | | | | | | |
| SSELS | | Меп. | | · | | | | | | | | | | | | |
| FISHING VESSELS AND BOATS. | Vessels. | sels. | sels. | sels. | sels. | Value. | æ | 3,525 9,535 17,430 2,300 2,00 3,550 10,050 3,550 5,00 5,00 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9,200 9 | | | | | | | | |
| Fis | Ve | Топпа g е. | | 197 1,356 1,356 1,553 1,516 1,531 1,531 1,531 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1,543 1, | | | | | | | | | | | | |
| | | Number. | | 21224 : 223 21 412 E73 274 E3 | | | | | | | | | | | | |
| | Courtes | | | 1 Cape Breton. 2 Inverness 3 Richard 4 Victoria 4 Victoria 5 Antigonish 6 Colchester 7 Cumberland 8 Guy-korough 9 Halitax 11 Pi-tou 12 Annapolis 11 Bugh 14 King's 15 Gueenburg 16 Gueenburg 17 Shelburne 17 Shelburne 18 Yarmouth | | | | | | | | | | | | |
| | | Number. | | | | | | | | | | | | | | |

SHOWING the Number, Tonnage and Value of Vessels and Boats and the quantity and value of all Fishing Materials, &c. --Continued.

RECAPITULATION—Continued.

| | | Number. | | | ေကတက္ | 22222 | 122 | |
|----------------------------------|----------------------------------|-----------------------------|-----|-----------------------------------------------------------------------------|--------------------------------------------|---------------------------------------------------------|--------------------------------------------------------------|---------|
| | Tugs, Steamers and Smacks. | Value. | . % | 3,195 3,195 3,195 | .31,325 8,255 | 6,350 | 900 15 750 16 5,575 17 6,950 18 | 64,405 |
| EX. | Steam Sma | Number. | * | 15 30 | 36 18 | : := : : : : : : : : : : : : : : : : : : | 114451 | 143 |
| У ізнекі | Piers and Wharfs. | Value. | 66 | 3,752 36,200 3,475 6,475 | 25,675 14,479 | 33,950 | 21,010 516 22,932 18,250 | 186.714 |
| SED IN | Pi Wh | Number. | | 172 75 21 13 | 274 618 | | 52258 | 1.635 |
| Other Fixtures used in Fisheries | Smoke and Fish Houses. | Value, | R | 3,402 10,300 1,415 3,090 821 | 30 37,127 40,501 | + 12.5 25.75 35.750 35.750 35.750 35.750 | 22,780 3,804 21,770 13,910 | 180.340 |
| ier Fl | Sm Fish 1 | Zumber. | | 8222 1225 1300 1300 1300 1300 1300 1300 1300 130 | 515 876 | : | £ 23.85 € 28.85 £ | 3.689 |
| OTF | Freezers and Ice Houses. | Value, | 99 | 2, 355 250 550 10 10 | 12,860 | 262 800 3,772 | 3,000 | 28.301 |
| | Fre loe F | Number. | | 9.72.03.E | 119 | | 131 .17.0 | 193 |
| | mployed. | S_{0} of bands ϵ | | 202 203 203 203 203 203 203 203 203 203 | 36.33 | 493 | 375 122 120 | 5,185 |
| ANT. | ·sd | Value, | X) | 28, 599 28, 635 21, 310 11, 500 | | 27,190 4.900 22,138 | 10,700 5,102 59,602 22,762 | 361.410 |
| Lobster Plant | Traps. | Number. | | 43,700 54,000 40,670 18,175 12,150 | 39,450 118,100 64,210 | 46,415 6,500 31,110 | 14,850 12,767 101,620 30,250 | 645,167 |
| LoB | Canneries. | Value. | 86 | 001.61 008.8.9 008.8.9 008.9 | 22,105 40,240 18,700 | 29,300 | 1,970 1,760 14,800 12,750 | 206,010 |
| | Cann | Number. | | 14589- | *8#8 | 25 | . 216 | 231 |
| LS. | Hand Lines. | Value, | 99- | 1,049 3,090 2,016 1,585 84 | 9,975 1,579 | | 5,100 492 4,472 965 | 34,122 |
| [ateria | Hand | Number. | | 2,4,895 2,270 2,270 214 | 42 4,437 3,500 | 58 490 1,037 | 850 5,680 1,930 | 33.878 |
| FISHING MATERIALS. | Smelt Nets. | Value. | 90 | 105 285 5 | 1,233 101 101 101 101 101 | 270 | 300 | 2.798 |
| F | Smelt | Number. | | . E E 83 | 1650 | 15 | . : " = | 166 |
| | Counties. | | | Cape Breton Inverness Richmond Victoria Antigonish | uniberland uysborcugh | ants. ctou. nnapolis. | nenburg neen's eelburne srmouth | Totals |
| | _ව | Number | | 1 Cape Bretc 2 Inverness. 3 Richmond 4 Victoria. 5 Antigonish | 7 Cumberland 8 Guysboreugl 9 Helifax | 11 Pictou. 12 Annapolis. 13 Digby | 15 Lunenburg 16 Queen's 17 Shelburne . 18 Yarmouth. | _ |

RECAPITULATION---Continued.

RETURN showing the Kinds and Quantities of Fish and Fish Products in the whole Province of Nova Scotia, &c. -Con.

| | | Number, | | | 2245278 |
|---------------|------------|---------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Hake. | Sounds | Lbs. | ଼ି. ⊢ଳି ବି | 13,000 49,350 410 73,457 |
| | | Dried. | Cwt. | 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2 | 10, 300 82,945 295 1,524 30 795 108,528 |
| | Haddock. | Smoked finnan haddies. | Lbs. | 9,311 155,280 5,000 | 1,159,800 900 30,000 1,360,291 |
| | | Dried. | Cwt. | 1,47,41 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,323 1,32 | 7,480 1,350 1,350 7,534 10,195 9,646 |
| | H | .fresh. | Ľþ. | 2,000 10,900 1,100 1,100 79,300 | 28 13,300 7,483 1,150,800 10,300 176 83,000 7,354 1,524 3,295 21 83,000 7,534 3,524 3,524 21 10,115 900 36 13 182,150 9,640 30,000 795 483 4,399,632 106,348 1,360,291 108,528 |
| | Cod. | Tongues and sounds. | Brls | 88 : : : : : : : : : : : : : : : : : : | 88 17 12 88 83 13 12 14 18 |
| | | Dried. | Cwt. | 28. 28. 28. 28. 28. 28. 28. 28. 28. 28. | 29, 227 1, 141 215, 303 5, 540 70, 585 38, 978 |
| ж | Serv. | Fresh in shell. | Cwt. | 252 252 42 811 18,063 | 223,222 187 1,053 3,616 55,150 18,100 |
| Kinds of Fish | Lobsters | Preserved in sans. | Lbs. | 250,256 368,530 134,516 14,400 500,524 915,956 590,332 590,332 | 29, 424 148,128 160, 464 439,968 653,976 5,210,294 |
| Kıs | rel. | Salted. | Brls. | 7,595 4,265 4,265 812 197 1,017 | 563 |
| | Mackerel | Fresh. | Lbs. | 5,110 25,890 10,501 1,118,150 8,200 | 2,100 364,000 5,302 61,300 61,300 67,700 148,108 1,700 169,408 1,700 169,408 1,700 169,408 1,300 169,408 1,300 169,408 1,300 169,408 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,30 |
| | Herring. | Втокед. | Lbs. | | |
| | | Fresh. | Lbs. | 25,100 25,100 6,800 4,000 26,400 703,200 31,000 27,800 17,800 | 3,128 2,976 2,975 133,200 2,370 5,471 8,150 84,000 76,828 4,592,453 |
| | | Salted. | Brls. | 7,7299 1,933 1,933 1,933 1,933 1,933 6,047 6,047 | 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2 |
| ; | Salmon. | Salted. | Brls. | *25 *10 *109 *109 *109 *109 *109 *109 *109 | +320 |
| | | Preserved in same. | Lbs. | 2,661 | 13,668 |
| | 3 2 | Fresh. | Lbs. | 33, 33, 33, 33, 33, 33, 33, 33, 33, 33, | 28,590 13,564 13,564 16,250 5,800 6,462 |
| | Counties. | | | 2 Invernes 3 Richmond 4 Victoria 6 Colchester 7 Cumberland 6 Guysborough. 9 Halfax 10 Hanfax | 13 Digby 14 King's 14 King's 15 Lunenburg 16 Queen's 17 Shelburne 18 Yarmouth Totals |

*Salted. †Smoked. †Totals, salted, 330 brls.; smoked, 5,145 lbs.

RECAPITULATION—Concluded.

RETURN showing the Kinds and Quantities of Fish and Fish Products in the whole Province of Nova Scotia, &c. -Concluded.

| Number. | | 128470578001128470578 | _ |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Total Valuk of All Fish. | | | 7,226,035 00 |
| Seal skins. | No. | : N::::::::::::::::::::::::::::::::::: | 305 |
| Fish as manure. | Brls. | : :⊢ aj4aj :aj & : :⊢-j | 50,720 |
| Fish as bait. | Brls. | | 92,885 |
| Fish oil. | (†alls. | 8,206 11,550 17,853 17,853 17,888 5,488 100 100 100 100 100 100 100 100 100 1 | 322,277 92,885 |
| Coarse and mixed fish. | Brls. | 12,618 1,285 1,285 1,285 1,285 20 602 315 315 315 4,320 4,320 4,320 | 64,359 |
| .biupB | Brls. | | 8,467 |
| Tom cod or frost fish. | Lbs. | | 146,120 |
| Flounders. | Lbs. | - :뿌 :::::: ♬ :옮 : : ! | 419,000 146,120 |
| Oysters. | Brls. | 187 125 28 288 286 1,367 | 2.097 |
| Clams in shell. | Brls. | 80 80 1,051 200 200 200 | 1.641 |
| Eels. | Brls. | 1 3 1 3 2 1 3 2 1 3 3 5 1 | 2.333 |
| Вява. | Lbs | 그 : [편편 : [ᆵ - : : : :] | 15.650 |
| Alewives or gaspereau. | Bils. | 8 : | 10.946 |
| Smelts. | Lbs. | 133,000 28,738 28,738 1,900 1,900 13,400 27,900 28,500 1,100 28,500 1,100 28,600 28,600 1,100 28,600 28,600 1,100 28,600 28,600 1,100 1,100 28,600 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,1 | 303.558 10.946 15.650 |
| Shad. | Brls. | 1,657 533 587 587 587 583 1150 | 4.125 |
| Trout. | Lbs. | 20, 275 4, 157 6,00 1, 800 1, 800 1, 800 1, 800 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 1, 700 | 91.330 |
| Halibut. | Lbs. | : ::: | 1 635 395 |
| Pollock. | Cwt. | 3,48% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% 1,75% | 74 55 |
| Counties. | | yerness verness chmond chmond thgonish lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithester. lithe | Totals |
| | Halibut. Trout. Shad. Shad. Alewives or gaspereau. Eels. Clams in shell. Tom cod or frost fish. Fish as bait. Fish as bait. Fish as manure. | Cotte and mixed fish. Los Bris. Los Bris. Los Bris. Los Bris. Los Bris. Los Bris. Los Bris. Los Bris. Los Bris. Los Bris. Los Bris. Los Bris. Los Bris. Los Bris. Los Bris. Los Bris. Los Bris. Los Bris. Los Bris. Los Bris. Los Bris. Los Bris. Los Bris. Los Bris. Coarse and mixed fish. Bris. Los Bris. Los Bris. Los Bris. Los Bris. Coarse and mixed fish. Bris. Coarse and mixed fish. Bris. Coarse and mixed fish. Bris. Coarse and mixed fish. Bris. Coarse and mixed fish. Bris. Coarse and mixed fish. Bris. Coarse and mixed fish. Bris. Coarse and mixed fish. Squid. | Cwt. Lbs. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. Pollock. |

RECAPITULATION

OF the Yield and Value of the Fisheries of the whole Province of Nova Scotia, for the Year 1898.

| Kinds of Fish. | Quantity. | Rate. | Value. | Total Value. |
|-----------------------------------------|-----------------|---------------|---------------------------------------|-----------------------------------------|
| | | \$ cts. | \$ cts. | |
| almon, pickled Brls. | 330 | 15 00 | 4,950 00 | |
| " fresh | 390,742 | 0 20 | 78,148 00 | |
| " preserved in cans | 13,668 | 0 15 | 2,050 20 | |
| " smoked " | 5,145 | 0 20 | 1,029 00 | |
| r · · · · · · · · · · · · · · · · · · · | 50 000 | | | 86,177 20 |
| [erring, pickled Brls.] | 76,828 | 4 00 | 307,312 00 | |
| fresh | 4,592,453 | 0 01 0 02 | 45,924 50 | |
| " smoked | 428,100 | 0 02 | 8,562 00 | 361,798 50 |
| Iackerel, salted Brls. | 15,938 | 15 00 | 239,070 00 | 301,750 30 |
| n fresh Lbs. | 2,371,042 | 0 12 | 284,524 24 | |
| | , i | | | 523,594 24 |
| obsters, canned | 5,210,294 | 0 20 | 1,042,058 80 | |
| fresh in shell | 326,313 | 5 00 | 1,631,565 00 | 0.000.000.00 |
| od, dried | 442,946 | 4 00 | 1,891,784 00 | 2,673,623 80 |
| tongues and sounds Brls. | 483 | 10 00 | 4,830 00 | |
| wong dee and sounds | 100 | 10 00 | 4,000 00 | 1,896,614 00 |
| ommy cod or frost fish Lbs. | 146,120 | 0 05 | | 7,306 00 |
| Iaddock, dried Cwt. | 106,348 | .3 00 | 319,044 00 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
| " fresh Lbs. | 4,399,632 | 0 03 | 131,988 00 | |
| smoked finnan haddies | 1,360,291 | 0 06 | 81,616 06 | |
| lake, dried Cwt. | 108,528 | 2 25 | 044 100 75 | 532,648 00 |
| sounds Lbs. | 73,457 | 0 50 | 244,186 75 36,728 50 | |
| ounts 1105. | 10,101 | 0 00 | 30,120 30 | 280,915 2 |
| Pollock Cwt. | 54,552 | 2 00 | | 109,104 0 |
| Ialibut Lbs. | 1,635,325 | 0 10 | | 163,532 5 |
| rout | 91,330 | 0 10 | | 9,133 0 |
| melts " | 303,558 | 0 05 | | 15,177 9 |
| Bass | 15,650 | 0 10 | | 1,565 0 |
| had Brls. | 4,125 | 10 00 | | 41,250 0 |
| Alewives | 10,946 2,333 | 4 00 10 00 | · · · · · · · · · · · · · · · · · · · | 43,784 0 23,330 0 |
| quid | 2,333 8,467 | 4 00 | | 33,868 0 |
| lounders Lbs. | 419,000 | 0 05 | | 20,950 0 |
| Oysters Brls. | 2,097 | 4 00 | | 8,388 0 |
| Clams in shell | 1,641 | 2 00 | | 3,282 0 |
| Coarse fish | 64,359 | | | 128,249 0 |
| fish oil | 322,277 | 0 30 | | 96,682 2 |
| fish as baitBrls. | 92,885 | 1 50 | | 139,329 0 |
| n as manure | 50,720 | 0 50 | | 25,360 5 |
| Seal skins | 302 | | | 372 2 |
| Total for 1898 | | | | 7,226,034 4 |
| 1897 | | | | 8,090,346 7 |
| _ | 1 | 1 | | , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
| Decrease | | l | | 864,312 3 |

RECAPITULATION

Of the Values and Kinds of Fishing Materials in the whole Province of Nova Scotia, for the Year 1898.

| Articles. | Value. | Total. |
|--------------------------------------|------------------|---------------|
| | 8 | \$ |
| 537 fishing vessels (23,718 tons) | 837,590 | |
| 15,358 " boats | 323,989 | |
| 59,004 gill-nets (2,018,437 fathoms) | 450,020 | |
| 647 seines (69,003 fathoms) | 113,035 | |
| 227 trap-nets | 73,353 | |
| 218 weirs | 18,865 90,955 | |
| 8,550 trawls | 34,122 | |
| 166 smelt nets. | 2,798 | |
| 41 bag-nets | 693 | |
| 12 500, 1550 | | 1,945,4 |
| 231 lobster canneries | 206,010 | _,, |
| 45,167 " traps | 361,410 | |
| | | 567 ,4 |
| 193 freezers and ice houses | 28,301 | |
| 3,689 smoke and fish houses | 180,340 | |
| 1,635 piers and wharfs, (fishing) | 186,714 | |
| 143 tugs and smacks | 64,405 | 459,7 |
| • | _ | |
| Total value of fishing capital. | | 2,972,6 |

Number of men employed in the Fisheries of Noya Scotia, 1898.

| Men on fishing vessels " boats. Persons employed in canneries. | 20.801 |
|------------------------------------------------------------------|--------|
| Total | 31,420 |

APPENDIX No. 4.

NEW BRUNSWICK.

District No. 1, comprising the county of Charlotte.—Inspector J. H. Pratt, St. Andrews.

District No. 2, comprising the counties of Restigouche, Gloucester, Northumberland, Kent, Westmorland and Albert.—Inspector R. A. Chapman, Monoton,

District No. 3, comprising the counties of St. John, King's, Queen's, Sunbury, York, Carleton and Victoria.—Inspector H. S. Miles, Oromocto.

DISTRICT No. 1.

REPORT ON THE FISHERIES OF DISTRICT No. 1, NEW BRUNSWICK, COMPRISING THE COUNTY OF CHARLOTTE FOR THE YEAR 1898
BY INSPECTOR JOHN H. PRATT.

St. Andrews, N.B., December 31, 1898.

The Hon. Sir L. H. DAVIES K.C.M.G.,
Minister of Marine and Fisheries,
Ottawa.

SIR,—I have the honour to submit herewith my tenth annual report on the fisheries of District No. 1. N.B., comprising the County of Charlotte, which I may state includes the islands at the mouth of the Bay of Fundy on the New Brunswick shore, and also the fisheries of the Chiputneticook Lakes. A synopsis of the reports of the several fishery officers is also appended, with the requisite statements showing the product and values by sub-districts. I also include a statement showing the amount of capital invested in the numerous fisheries of the district. I am pleased to report an increase for the past year in the fishery products and values over that of 1897 by \$275.074. This is mainly due to the large increase in the catch of herring and also to a slight surplus in several kinds of line fish. The prices throughout the season were of a satisfactory nature.

It might be of interest to give here the gross annual values of the products of this district's fisheries for the past ten years, during which they have been under my control as inspector.

| For | 1889 | \$1,373,589.26 |
|-----|------|----------------|
| | 1890 | 1,062,756.10 |
| | 1891 | 1,279,977.19 |
| | 1892 | 863,465.90 |
| | 1893 | |
| | 1894 | 1,118,477,29 |
| | 1895 | 968,203.50 |
| | 1896 | 1,108,701.76 |
| | 1897 | 870,287.30 |
| | | 1,145,361.77 |

The slight fluctuations noticed in the statistics for the years given are not sufficient to cause any serious alarm as to the early extinction of the various fisheries of the Bay During my numerous cruises in the Curlew towards Cape Breton and Prince Edward Island, I have been enabled to observe nearly all the fishing grounds possessed by the other maritime provinces, and it is quite plain to the most casual observer that the Bay of Fundy fishermen possess advantages for gaining a livelihood far superior to any other fishermen by the sea. On my annual eastern cruises I meet numerous fishermen who are unable, from various causes principally by the failure of cod and herring to strike inshore, to make an income sufficient to support their families during the coming year, and are really in straightened circumstances. One would have to search very narrowly indeed to discover among the hardy fishermen of the Bay of Fundy any one in very poor circumstances. There are some exceptions of course, but only among those who have neglected the numerous opportunities that a kind Providence has provided for them to draw their harvest from the sea almost at their very doors. For a considerable portion of the past season I was employed in cruising on the coasts of Nova Scotia and Cape Breton, with a run to Prince Edward Island. In consequence I did not have the opportunity of visiting the various fishing grounds in the remote parts of this district that is deemed essential for their efficient protection. However, by considerable correspondence, I was enabled to look after those fisheries in a manner that I trust was satisfactory to your department.

The number of registered vessels owned in the district and employed in the several branches of the fishing industry is forty-eight, aggregating 875 tons, besides 1,059 fishing boats, which include a great number of large sloops, used for carrying sardine herring,

and for other trading purposes, but which are under ten tons register.

When you take into consideration the fact of such a large number of herring weirs being licensed in my district, and the innumerable disputes necessarily arising therefrom, together with the fact of my services being required so much in Nova Scotia and Cape Breton, it will explain the large amount of correspondence necessary to maintain the proper control of the district during my absence.

HERRING.

This fishery is the most important of any in the Bay of Fundy. About two-thirds of the population direct their energies towards its prosecution, and derive their living therefrom. Like the lobster, it is each year assuming a more prominent position in the eyes of the more intelligent fishermen. There is more rivalry in the search for better weir locations, the outlay is heavier, better facilities are being afforded for the transport of the catch to the several markets, and now the numerous sardine canneries are awakening from their lethargy, and several syndicates are competing in their offers to our fishermen for their catch of herring during the coming season of 1899. We are much pleased to see this rivalry existing among the buyers of our sardine-herring, as it will surely have a tendency to increase the prices of the future catch in our waters. There is no doubt that before many months have passed there will be formed in the state of Maine a substantial syndicate owning all or nearly all of the sardine canneries in that state. I may add that at this present time, there are in operation sixty two sardine factories in Maine and during the past season those factories canned 1,178,694 cases of sardines. valued at \$2,727,781 which is an increase of nearly half a million cases over the pack of the previous year. Fully sixty per cent of the fish used in these canneries came from Canadian waters.

However, it is a pleasure to report that the schools of herring are as plentiful as ever, and the catches of the several sizes are quite satisfactory. The net herring were very plentiful at Grand Harbour, Grand Manan, during the fall months, and a great number of schooners loaded cargoes there. Large schools of herring suitable for sardine purposes played inshore at L'Etang Harbour during the latter part of the season, the weirs there reaping a rich harvest, selling their catch to the numerous trading boats from Eastport. Owing to this unusual catch at L'Etang and vicinity the catch of sardine herring shows the satisfactory increase over that of 1897 by 16,502 barrels.

Sutton Clark, Esq., of St. George, during this year has erected a large factory at L'Etang Harbour, where he has begun the canning of sardine herring, putting up an article that cannot be excelled by his competitors in the adjoining state of Maine. With the two sardine factories at Beaver Harbour and two others at St. Andrews and Deer Island, all increasing their annual output, it will give you a good idea of the importance this canning industry is assuming in this district. With reference to the allimportant question as to whether herring are increasing or decreasing in the Bay of Fundy, I can assure your department that this question was the subject of many heated discussions this year as in past years, and as usual, it still remains unsolved. reference to this question I might be pardoned for quoting from a recent report of Mr. H. F. Moore, Ph.D., a member of the United States Fish Commission, who spent considerable time in these waters during the years 1893-4 and 5. After dealing very intelligently with the strife always existing between weir fishermen and net fishermen, Mr. Moore says: 'On the other hand, it is claimed that the continued catching of immense numbers of young fish for the sardine industry must produce a decrease in the herring, and that it is only a question of time when this decrease will make itself manifest, if it has not already done so. At first sight it would seem that this might be reasonable and the only reason that such a decrease has not taken place is no doubt because the number of herring killed by man is insignificant when compared with the total number of this species in the seas, and the number which yearly fall victims to the various natural dangers which beset them.

'When all the factors in the case are reviewed, I think it has been shown that not only has there been no decrease in the sardine herring in the region under discussion, but that there are at present no practices connected with the fishery, which are liable to seriously affect their future abundance.'

From the foregoing you will be able to observe that the herring question is one that will stand unlimited discussion, there being such a surprising number of theories advanced by those interested.

SALMON.

There being but one river in this district frequented by this fish, the catch is, therefore, small, but still greatly in excess of the previous season. Overseer Todd in his annual report shows that the salmon are visibly increasing, which is no doubt to be attributed to the viligant oversight of himself and the three guardians under his control. Numerous attempts were made by poachers to take salmon on the St. Croix River, but I am pleased to say their attempts were frustrated. Numerous sportsmen met with good success, fly-fishing in the pool above St. Stephen, and many fine salmon were successfully landed.

Several salmon were seen above the fishways on the Magaguadavic River, and it is to be hoped that they will be able in the near future to ascend this beautiful river, a river that cannot be excelled anywhere in Canada as a salmon river. Guardian Hall is exerting every effort to keep the fishways in efficient condition, and believes that a number of salmon have ascended the river during the past season.

HALIBUT.

A considerable decrease is noticed in the catch of halibut which is due to a less vigorous prosecution of this fishery, and not to any scarcity of this large fish. A number of vessels that were engaged formerly in this fishery fitted out this season for hake, or went weir fishing. Prices remained good during the season.

COD.

There is a slight decrease in the returns for the cod-fish catch, due to many of the fishermen formerly engaged in hand lining directing their attention to the weir fisheries. The good prices prevailing for sardine herring warranted them in this venture

although many of them were sadly disappointed at the end of the season, there being many weirs that hardly paid the cost of construction.

HAKE.

Quite a number of schooners fit out expressly for this fishery and the rebeing several good grounds for hake in the Bay of Fundy, satisfactory returns are generally the result. An increase of 1,000 quintals over the previous season is noticed in the several officers' returns which brought the fishermen very satisfactory prices during the entire season.

HADDOCK.

Quite a large increase will be noticed in this catch up to date. Good prices were realized by the fishermen in selling them fresh from the water to the numerous buyers, and even at the present time two cents per pound is being received by the fishermen. More energy was displayed in this fishery than heretofore on account of the good prices prevailing, and it is to be hoped that the financial results will be equally as good in the future. An increased quantity of haddock, smoked as finnan haddies, commanded a ready market. The demand for haddies is increasing and I hope to be able to report in the future that our fishermen are conducting this fishery with a view of placing more smoked haddock on the market. At Beaver Harbour and St. Andrews finnan haddies are cured by two energetic dealers and they find a ready market for their output. A new departure is being tried at Beaver Harbour in the canning of haddies and a good demand is being created.

MACKEREL.

Excepting for the few very small ones found mixed with the sardine herring in the weirs, no mackerel were caught during the past season. However, mackerel were not by any means abundant at any of their usual haunts. Our fishermen speak in glowing terms of periods in the years gone by, when big hauls were made by them in this district, and good prices realized. They look forward hopefully to making equally good catches and it is to be hoped they will not be disappointed in the near future.

FISHWAYS.

I have given an unusual amount of time to the keeping in efficient condition of the numerous fishways in this district and they have served well their intended purpose during the year. Overseer Todd on the St. Croix, and Guardian Hall at St. George, have taken special pains with the fishways each have under their control. Fish of various kinds have passed through them, and with some little repairs in the spring they will be in good order for the coming season.

CAMPOBELLO FISH FAIR.

I was unable this year to attend the meeting of this fishery association which was held during October at Welshpool, as I was attending to the United States fleet at Cape Breton. However, a very large number of persons attended including the Premier of New Brunswick and several members of both Provincial and Dominion parliaments. The exhibits of fish surpassed that of previous years, exciting much admiration among the numerous visitors. The committee have expressed a strong desire for your department to be represented at their next annual fair by one of your fishery experts; in order that greater good may be derived by a lecture on our fisheries, the best method of preserving them, and other matters of interest to fishermen. Much good would no doubt result from this visit of one of your departmental experts to Campobello, one of the most important fishing islands in Canada.

SYNOPSIS OF FISHERY OFFICERS' REPORTS.

Overseer Fraser of Grand Manan reports: Having only been appointed a few months ago, he does not profess to be thoroughly posted in regard to the fisheries of his district. His figures for the different kinds of fish are very much at variance with those of last year, and his total results are very much less, thus showing a decrease in the present year. This he cannot account for. The various fisheries were prosecuted this year as vigorously as those of 1897, 90 per cent of the catch of the island of Grand Manan is exported to foreign countries, that to a large extent via the United States in bond. Part is exported to the United States fresh, and there manufactured in different ways for that market. Ten per cent only would be used for home consumption. A few cases of violations of the Fsheries Act were reported to him, but he was unable to secure sufficient evidence to convict, however, he had very little trouble in making the fishermen comply with orders. On several occasions he managed to get among suspected parties and they regretted his To properly enforce the regulations in the waters of this island a patrol boat should be allowed to the overseer, and power given him to hire two men. This boat wants to be kept going through four months of the year, from August 1 to November 30, this being the period when the Curlew is generally absent, leaving the grounds practically in the hands of the fishermen to do as they wish for the time being. I would also suggest that net fishing be put under license like weir fishermen, for the season that the netters in the habit of throwing overboard on the netting grounds all small fish taken in their nets, which, being considerable, poisons the ground by rotting. This simply transfers the fishing ground into a gurry ground driving the fish off shore, and damaging both weir and net fishing. He would also suggest that net fishermen be compelled to have their nets out of the water from sunrise to sunset, so that the fish can get inshore. At present nets are set deep and under run each day, and left so set for months. coming shore meet the nets and sheer off, and thus the fishermen are destroying their own business. If they were under license like weirs the overseer could regulate them according to the fishery laws, but now, practicably, nothing can be done. Another matter that requires action by the authorities, is the exporting to Eastport and other United States ports of such large quantities of herring from the weirs of this island, the American trading vessels buying the fish here at a very small price, and taking them into their own markets free of duty. A Grand Manan boat taking them in would be subject to duty, the United States people and their vessels receive all the labour, freight, etc., on the fish while our boats and fish are practically shut out from their market by a prohibition duty. If possible something should be done to help our fishermen in this matter, and also prevent the destruction of such immense quantities of small herring which accounts for the small catches of large herring on our coasts. Many old fishermen believe that eventually the herring fisheries will be destroyed by this slaughter of the small ones.

Overseer Todd of St. Stephen in his annual report states, that salmon were very abundant this season in the Ste. Croix River, thus emphasizing the fact that the employment of a number of guardians on the river during the season is the most effective and economical method in the end. The catch of other fish was about the same as past years. black bass are increasing in the river. The fish-ways have been kept in good condition and kept open during the entire season.

Overseer Brown of Campobello reports a decrease in the amount of herring smoked. Owing to the high prices received for sardines here the fishermen sold them for that purpose. Most of the smoked herring put up on this island were brought from Grand Manan in the fall, when the fish were cheap, and the weirs in this district did not fish. An increased number of salt herring were put up by the fishermen of this district, although they did not catch them here, but in Grand Manan waters. The catch of herring for sardine purposes was about one-third less than that of last year, but the prices received were unusually large. The catch of hake did not equal that of the previous year, and he has the same to say with regard to pollock, which did not seem inclined to take the hook. They schooled however very freely, evidently playing after shrimps. He only reports one half the catch of cod as most of the vessels fitted out for the haddock and hake fisheries which paid them better. Haddock sold for a good price

during the year in a fresh state, very few have been salted. Lobsters show a small increase in the catch. This, we cannot account for as lobsters seem to be getting scarce but the high price paid for ten and a half inch lobster induced the fishermen to make an effort. There was a decrease in the catch of most all kinds of fish, but on account of the good prices realized, the fishermen fared better than other years. The close seasons have been very well observed except in a few instances.

Overseer Campbell of St. Andrews reports that the season has not been a very profitable one, as the price of sardine herring part of the season was very low. There were more weirs fished than in 1897, but the catch was very little larger than that year, not from a scarcity of herring however, but from a want of buyers. There were so many sardine herring in other places nearer Eastport, that at times for days or weeks there would be no sardine buyers in the inner bay. The Digdeguash weirs, with one or two exceptions, did very little, and the main catch in this district was in Chamcook and St. The quantity of herring in the bay through most of the season was very large, but much mixed with britt and a few large herring. There were quite a number of small mackerel at one time during the season, but they were so mixed with the sardine herring that they could not be separated, and went in with the sardine catch. The catch of lobsters was small and not so many traps were fished as in 1897, but the prices were good. Line fishing in the bay was not quite so good as the previous year. usual number of Nova Scotia vessels dug the flats, for clams this season, and our fishermen complain of them being allowed to do so. The beds are becoming depleted of the These beds would soon fill up again were the digging stopped for a few About twenty years ago when Hartt and Balkam were canning claims they had the beaches ploughed up and for a few years the clams were quite small but renewed them-There has been but little trouble with fishery violations this year, except for some torching for herring during three or four nights, mainly carried on by the weir owners themselves. Messrs Robertson & Co. have done a large business, manufacturing 5,000 cases smoked haddies and 600 cases of bloaters, which are entered as smoked herring. He makes no special recommendations as the season on the whole has been a quiet but profitable one.

Guardian Dick, the officer in charge of the fisheries from L'Etang and St. George, in his report says: There has been a decrease in the catch of hake, haddock and lobsters, but on the other hand there has been a considerable increase in the catch of cod, pollock and sardine herring. The fishermen of this district gave more attention to weir fishing this season than any of the other fisheries, which is attributable to the large schools which struck inshore in my district, and the good prices received for the herring. Some idea may be gathered of this increased catch of herring when I state that it amounted to 29,985 barrels more than last season.

Guardian Cross of Beaver Harbour who controls the fisheries from L'Etang River to Point Lepreaux states in his annual report that: taking the whole fishing industry altogether there has been a gain in the catch and value over that of last year. There were very few large herring taken and for several years past this fishery has been declining for which he cannot give any reason. There has not been as many sardine herring shipped from this district as last year, but there has been more canned in the two factories here. The catch was about the same as previous year. Lobsters show about the same catch as last year but more of them were canned in the factories here and in Blacks Harbour. They brought good prices all the season, especially those that were shipped to the United States. Line fish of all kinds show an increase in the prices received and also the catch, although not so many men were engaged in the line fisheries. About fifty per cent of the district's catch was sold in the Dominion, while the remainder went to the United States market. This fishing season was more prosperous than the previous one.

Guardian Hall, in charge at St. George, reports: The fishways here are in first-class condition and many salmon have passed through them during the past season. Quite a number have been seen about here in the rivers, as well as in the mill-pond and in the basin. There has been no fly fishing for them and consequently none have yet been captured. The trout fishing in the several lakes has been up to the average, and numerous fishing parties during the season have had good sport, and fine catches.

Guardian Lord, in charge at West Isles, reports a decrease in the herring catch this past season. Early in the summer the catch was fair and prices moderately high, but later on the catch was small. Our annual fall catch, which we always count as the best of the season, was a total failure, but whether the schools are less, or that they have forsaken their usual haunts, is a question on which opinions differ very much. Some think they are scarcer, others that they are more plentiful all round the coast than ever before, but he is of opinion that they are getting scarcer. Our smoking herring business was a failure, none at all being taken, the silver hake of which there were a few, may have driven these herrings from this island. We cannot say it was the squid for these fish were very scarce. For about a week a number of the weirs took a few tinker mackerel which were sold with the herring to the packers. The line fish seem to be as plentiful as usual, but a large number of fishermen who formerly engaged in this industry procured employment in the sardine factories at Eastport and Lubec, where they believed they were better off from a financial standpoint. The pollock were plentiful for a time, a larger number being caught in weirs, and perhaps they account in a measure for the scarcity of herring. Haddock remain the same, although a less number of vessels were employed this year trawling. Cod were as plentiful as ever, and he noticed some of them had a small under fin cut off, which is said to be the Gloucester hatchery work. Lobsters are becoming scarcer every year. He finds it very hard to prevent illegal lobster fishing during the close season, as the fishermen risk the penalties for the few dollars made. They set their traps without buoys and during the night haul their traps by dragging for the lines, therefore it is almost impossible to catch them.

Guardian Conrad at Ste. Croix who has charge of the fisheries on the border lakes, from Vanceboro northward, reports that he has by constant vigilance been able to prevent any poaching in the waters of his district. Several reports of persons having violated the law were brought to him, but on investigation they were without foundation. The fishing of various kinds was very good, and the waters were visited by numerous parties of sportsmens who were well pleased with their success.

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

> JOHN H. PRATT, Inspector of Fisheries.

DISTRICT No. 2.

REPORT ON THE FISHERIES OF DISTRICT No. 2, COMPRISING THE COUNTIES OF RESTIGOUCHE, GLOUCESTER, NORTHUMBERLAND, KENT, WESTMORLAND AND ALBERT, FOR THE YEAR 1898, BY INSPECTOR R. A. CHAPMAN.

Moncton, January 2, 1899.

Hon. Sir L. H. DAVIES, K.C.M.G., Minister of Marine and Fisheries.

Sir,—I have the honour to submit my report on the fisheries of District No. 2 New Brunswick, for 1898, with tabulated statements giving the product and value by districts and counties, together with a return of the capital employed in the prosecution of these fisheries.

The returns show a considerable falling off from the previous year's aggregate, which is almost entirely confined to one county (Gloucester) and which is largely caused by the very low prices prevailing for codfish, and during two or three years ending with 1897, where fishing did not pay causing many of the dealers to lose heavily, and consequently in some of the smaller districts where agricultural pursuits have paid better fishing has been almost abandoned, but the high prices realized in 1898 for fish will have an inspiring effect, and no doubt stimulate the business so as to restore it to the old figures or propably increase them, especially as there appears to be no scarcity of cod, smelts, herring etc., though lobsters are being overfished as more fully explained hereafter, the reduction of the number of districts in this (Gloucester) county from two to four making it more difficult in such largely increased areas for the officers to get correct figures may also have something to do with smaller returns, though I have assisted them with aid of bounty claims, statistics, &c., to make them up. I will now report in detail upon the principal kinds of fish caught with remarks thereupon, &c.

SALMON.

The catch of this fish was not up to the average past year, except on the Restigouche and coasts leading to this river, though fly fishing on the principal streams was good especially on the Miramichi when the guardians were in good time and the first run of fish got up safely, into the pools and on the head waters of the different tributaries of this river. There is not a doubt that the supply of salmon depends not only upon the fish getting up and being protected, but also upon favourable conditions for depositing their eggs, hatching, &c., as on the natural hatcheries or spawning beds of the rivers frequented by these fish. If everything is favourable fall and spring large results will follow and then in four or five years there will be plenty of mature fish, but if on the contrary with unfavourable conditions in the fall, heavy runs of ice in the spring tears up and destroys the beds containing the eggs thereon, then as a natural result in due course of time fish must be scarce. Another matter upon which there is much difference of opinion, is, whether the summer run of salmon are produced from the same fish as those that come in during the fall; many maintain they are not and therefore that the Miramichi Hatchery, being supplied with eggs taken from the fall fish, is of less beneficial effect than if this hatchery were supplied with eggs of fish pooled from the summer catch. In the latter case it would cause those now taken in the fall to deposit more spawn in the natural hatcheries, and would ensure better results, though undoubtedly great advantage accrues if there are more eggs brought to maturity in this hatchery than in the natural beds of the rivers.

HERRING.

These fish are very abundant in the spring, but are of poor quality; large numbers are taken not only for food but bait, &c., and if the weather is rough usually large quantity of spawn is driven ashore and carted on the land for manure. The banks between Miscou and Caraquet are frequented by a much better quality of fish latter part of August and during September when many are taken by boats and schooners from all parts of the coast.

MACKEREL

Were scarce past season where they did strike in they only remained a short time consequently less were taken than usual, though great preparations were made on some parts of the coast for their catch; their movements appear to be very erratic.

LOBSTERS.

Though in Westmorland County more lobsters were taken last year without an extension than during 1897 with ten days more time, yet the whole catch in this district in 1898 to July 15 was slightly under that of the previous year with said ten days included, but a much larger number of traps was used, and with the prevailing high prices giving such inducements to continue increasing factories and gear, it does appear that something must be done to prevent the extermination of this valuable fishery. fall fishing was adopted in place of spring, as nearly all the spawn is dropped before the 15th July, I believe the supply would not be exhausted, while now the berries are washed off the fish in an immature state by the fishermen or when officers are not on guard female fish are boiled berries and all; fall fishing would also do away with illegal fishing and thus save quite a large sum, but the large packers everywhere appear to be opposed to this as it would be doubtless difficult to get hands to run their factories after those that they engage in the spring got away or had procured other employment; but such a change would certainly be better that all the hatcheries and preventitive laws that can be provided. I do hope that the commission now making inquiries may be able in their report to recommend something that will hereafter prevent this important fishery from being destroyed, which would certainly be in the interest of every canner and fisherman on the coasts.

COD.

The catch of this staple fish has not been up to the average of the past two years, not on account of any scarcity, but the low prices prevailing caused the work especially in small boats to be almost abandoned, in places where other employment could be had; but the advance in values during 1898 will certainly again give an impetus to this fishery which will doubtless within the next year or two put it up to or ahead of what it ever has been heretofore, there being room for almost unlimited expansion.

SMELTS

Show again a large catch notwithstanding that during the past two seasons heavy rains causing freshets have carried these fish out of the smaller streams just about the time this fishing commenced, and when this is the case they never appear to return the same season in large numbers, but they are certainly not becoming any scarcer but appear to be increasing from year to year, and as they are food for so many other kinds of fish the quantities taken for sale are a very small percentage of wheat are thus consumed. The benefits of this fishery cannot be overestimated, hundreds of thousands of dollars yearly being distributed thereby amongst the working people in the winter season when other employment is so hard to procure, thus enabling the traders to largely increase their business besides giving traffic to the different lines of local railways as well as the Intercolonial

BASS.

There is a small increase in the quantity of bass taken over the previous year, as we have not yet lost the benefit of the prohibition of some years ago, which enabled them to breed undisturbed in large numbers, and since that time the run of these fish as a whole has been longer from year to year, they appear to be a slow growing fish, and to take a good many years to attain a large size; whether with present rate of fishing the supply will be kept up or not is yet difficult to foretell, though it appears now as if it would with proper care that the small fish are not caught and destroyed by the smelt nets on the Miramichi, &c.

SHAD.

These fish come into St. John harbour on their way up St. John River to spawn in the latter part of May and first two weeks in June, and what are not taken by nets in the said harbour and river after they have deposited their eggs, return to salt water and come up to their feeding grounds at the head of the Bay of Fundy where by the 1st of September they become very fat. Fifty years ago some 200 boats were profitably employed in this fishery, which large fleet is now reduced to some twenty or thirty boats, there is not a doubt if a close time was made up to the 20th of June in each year, to enable there fish to spawn that in a few years the waters would be teeming with them again, to realize their present destruction any person has only to visit the markets of this province early in June and see these fish opened to be satisfied of the dreadful destruction that is taking place every year; surely this matter is worth some attention.

ALEWIVES

Are usually plentiful in a number of rivers and streams in the spring, and might be caught in much larger quantities, but not much attention appears to be given to this fishery except in one or two places.

OYSTERS.

While there is a slight falling off in the catch of these fish from the valuable beds in Buctouche and Cocagne, and a very considerable one from the Caraquet beds, there is a large increase in the take of an inferior fish in Northumberland County, as while some years ago very few were had outside of limited areas in Bay du Vin, now they are plentiful for miles up the Miramichi River, and men in boats and small vessels from the adjacent counties in the fall flock to these beds and load up their craft. The Caraquet beds, land-locked at the mouth of the Caraquet River, where there is very little current or sea, are becoming swamped out and covered by sediment and mud; it is proposed that this could be remedied by a small dredge scraping out the mud from amongst these beds and making the bottom suitable for receiving the spat, which is now very largely lost. This place would certainly be worth our examination as these oysters, though of small size are nicely flavoured, and in former years produced largely.

Referring to officers' reports very few of the overseers sent in any report with their returns at all, and the few received contain no notes or recommendations of importance.

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

> R. A. CHAPMAN, Inspector of Fisherics.

DISTRICT No. 3.

REPORT OF THE FISHERIES OF DISTRICT No. 3 OF NEW BRUNSWICK, COMPRISING THE COUNTIES OF VICTORIA, CARLETON, YORK, SUNBURY, QUEEN'S, KING'S AND ST. JOHN, FOR THE YEAR 1898, BY INSPECTOR H. S. MILES.

OROMOCTO, N.B., January 2, 1899.

The Honourable Sir L. H. Davies, K.C.M G.,
Minister of Marine and Fisheries.

SIR,—I have the honour to submit my annual report of the fisheries of this district, also statistical returns showing the value and quantities of fish taken, which, when compared with that of last year, shows a decrease of \$35,614.45.

SYNOPSIS OF FISHERY OFFICERS' REPORTS.

Overseer O'Brien, of St. John County, reports a falling off in the catch of salmon this year, resulting partly from the easterly winds which prevailed in the months of June and July and also to the extreme foggy weather rendering fishing in the harbour dangerous during the greater parts of salmon, shad and alewive fishing season. Lobsters show a decided increase in catch, because nearly all the fishermen devote their time and attention to this business in winter when all other fish go off shore.

Overseer Isaac I. Hetherington, of Jenkins, Queen's County, reports an abundance of alewives, while shad were less than an average run; other kinds of fish about as usual.

He captured two nets for illegal fishing.

Overseer Cecil F. McLean, of Burton, Sunbury County, reports that the run of alewives was a little better than last year but the catch was not so heavy as there were not so many engaged in fishing as in former years. The catch of shad was greater than last year, salmon not so good owing to a raise of water that came about the middle of the fishing season. Pickerel are on the increase and are fast becoming an important part of the fisheries and should be protected by a regulation size of mesh and a close season, the mesh to be $2\frac{7}{8}$ or 3'' mesh extension measure, and the close season to extend from October 1 to March 1. The alewives went up the Oromocto River in large quantities but ε t the Smith dam they are headed, a Hockin fishway is in that dam but no fish have ever been known to enter it.

Overseer Robert Orr, of Fredericton, York County, says that 'during the fishing season I devoted all my time on the St. John and S. W. Miramichi rivers. Drifting on the St. John River above tidal waters was carried on quite extensively and without more assistance it will be impossible to prevent it in the future. As regards the S. W. Miramichi River I have to say that a great deal of spearing was done before the guardians were placed on the river. A special guardian should be on the river by June 1. The Government through the representation of Mr. Edgar Hanson who takes great interest in the preservation of the fisheries, also Inspector Miles, put four men on the river between Boiestown and the forks, a distance of fifty miles. This stretch of river cannot be properly protected by four men, not less than seven are required to prevent spearing and netting. During the month of September quite a large number of salmon reached their spawning grounds and owing to the high water escaped the ravages of spearers. All fish taken in this district was used for home consumption. The abuses by netting on the St. John River still exist to a very great extent and can only be prevented by more

guardians. Close season on the St. John River fairly observed. I am of the opinion that the sawdust in my district is not injurious. No fishways in this district.' In conclusion he suggests that the head of tidal waters on the St. John River be established at the iron railway bridge at Fredericton.

Guardian Charles McEwen, of Beaufort, Carleton County, particularly reports a fine run of large salmon and trout in the north branch of the Miramichi River from July 18 until autumn, during which time the river was visited by many sportsmen. No illegal

fishing.

Guardian D. E. Brooks, of Bristol, Carleton County, reports a large run of salmon of which few were taken in the early season owing to the water having been so high but later on a fair number were caught, speared, &c. All were used for home con-

sumption.

Overseer Leonard Wilson, Victoria County, says that illegal fishing is seldom indulged in. Owing to the artificial culture of salmon, they are becoming numerous. No fishways in his district. More guardians are required, and their services should extend over a greater period of time than last year.

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

> H. S. MILES, Inspector.

NEW BRUNSWICK-District No. 1.

RETURN showing the Number, Tonnage and Value of Vessels and Boats, and the Quantity and Value of all Fishing Materials, with the Kinds and Quantities of Fish caught, in District No. 1, Province of New Brunswick, for the Year 1898.

| | | Numper: | | -384vo | |
|----------------------------|------------|----------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------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| | irs. | Value. | €6• | 11480 1 41100 2 34400 3 8300 4 17250 5 14400 6 | 315 126930 |
| | Weirs. | Zumber. | , | 75 4 8 8 5 5 5 8 4 8 4 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | 315 |
| ٠ | ls. | Value. | % | 2225 7225 750 1900 794 372 | 1917 |
| FERIALS | Trawls. | Number. | | 330 330 62 62 | 772 |
| FISHING GEAR OR MATERIALS. | | Value. | ₩. | 1850 6660 2220 2200 1230 | 18400 |
| GEAR C | Seines. | Fathoms. | | 3280 2250 2250 1110 1230 | 10786 |
| SHING (| 02 | Xumber. | | 85 5 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 | - 583 - 583 |
| Fir | | Value. | €; | 3800 3800 1870 222 | 7242 |
| | Gill Nets. | Fathoms. | | 3238 10450 1500 4160 641 | 19989 |
| | Gi | Number. | | 25 25 26 26 26 27 37 | 029 |
| | | Men. | | 148 518 220 220 203 95 | 1347 |
| ATS. | Boats. | Value. | | 3776 65680 9500 2560 8737 1780 | 92033 |
| ND Bo | | Number. | | 258 88 88 88 88 88 | 1059 |
| SELS A | | Men. | | 35 ± ∞ 8 8 4 | 224 |
| FISHING VESSELS AND BOATS. | els. | Value. | 69 | 6300 5300 800 2700 1700 450 | 17250 |
| Fishi | Vessels. | Топпаge. | | 277 270 59 158 92 192 | 875 |
| | | Number. | | 128 188 27-7-2 | 48 |
| | Districts. | | Charlotte County. | 1 Campobello 2 Grand Manan 3 West Isles 4 Lereaux to L'Etang 5 L'Etang to Latete 6 Latete to Oak Bay. | Totals |
| 1 | | | | ate Et | |

RETURN showing the Kinds and Quantities of Fish, &c. -New Brunswick-Continued.

| | Number. | | -0x4 | |
|----------------|-----------------------------------------|-------------------|--------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| | Haddock, canned, lbs. | | 9600 | |
| | Haddock, smoked finnan haddies, lbs. | | 150000 | 15000 |
| | Haddock, dried, cwt. | | 1209 900 1 | 581 850 |
| | Haddock, fresh, lbs. | | 40000 40000 | 60000i0 400000 |
| | Clams, shelled, bris. | | 450 101 1755 1001 | |
| | Clams, preserved, cans. | | 43000 | |
| | Cod, dried, owt. | | 245 1324 500 | 2866 100 100 |
| | Lobsters, fresh in shell, cwt. | | 6525 897 174 20 | 340 340 340 |
| isH. | Lobsters, preserved in cans, lbs. | | 40992 | 40680 |
| Kinds of Fish. | Mackerel, preserved, cans. | | 3400 | |
| 808 | Mackerel, fresh, lbs. | | : : : : : : : : : : : : : : : : : : : : | |
| Кп | Herring, smoked, lbs. | | 24000 | 8705000 74255 |
| | Herring, freshor frozen, sdl | | 8750 | 50000 20318000 |
| | Kippered herring, Ibs. | - | | 20000 |
| | Kippered herring in cans, lbs. | | 200 240000 | |
| | Herring, salted, brls. | | 200 + 32 : : | 4090 1487 25 |
| | Scallops, fresh, lbs. | | 4300 19400 2000 | |
| | Scallops, preserved in cans. | | 16000 | |
| | Salmon, fresh, lbs. | | 3600 | 23. |
| | . Біятаксты, | Charlotte County. | Lepreaux to L'Etang. L'Étang to St. George. St. George to St. Stephen St. George and vicinity | St. Stephen and vicinity. Grand Manan. Campobello West Isles. |
| | | | <u> </u> | e m o c |

RETURN showing the Kinds and Quantities of Fish, &c.—New Brunswick—Concluded.

| Alewives or gaspereaux, bris. Pickerel, 1bs. Sardines, preserved cans. Ton cod or frost fish 1bs. Ton cod or frost fish 1bs. Tish as bait, bris. Fish as bait, bris. Fish as manure, bri. Fish as manure, bri. | ♣ cts. | 900000 21600 5200 150000 89100 39000 160000 25705 3800 | 600 25 2300 850 186,729 5 500 480 89,961 5 600 600 53,885 | xo x000 1250000 169900 48700 1100 77 39300 4300 12355 1,145,361 75 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pickerel, 1bs. Sardines, preserved cans. Sardines, bris. Ton. cod or frost fish lbs. Coarse and mixed fish bris. Fish oil, galls. | | 900000 21600 5200 52 5500 1700 150000 89100 39000 5700 1275 150000 25705 3800 245 | 3000 600 25 16525 5000 16970 16970 800 600 | 3000 1250000 169900 48700 1100 77 39300 4300 |
| Fickerel, 1bs. Sardines, preserved cans. Sardines, bris. Ton. cod or frost fish be. Tonse and mixed fish bris. | | 900000 21600 5200 52 5500 150000 89100 39000 50 160000 25705 700 500 | 3000 600 25 22300 16525 5000 800 | 3000 1250000 169900 48700 1100 77 39300 |
| Pickerel, 1bs. Sardines, preserved cans. Sardines, brls. Flounders, 1bs. Ton: cod or frost fish 1bs. Desires and mixed fish brls. | | 900000 21600 5200 52 150000 25705 3800 700 500 | 3000 600 25 16525 50000 16970 | 3000 1250000 169900 48700 1100 77 |
| Pickerel, 1bs. Sardines, preserved cans. Sardines, bris. Flounders, 1bs. Ton. cod or frost fish 1bs. | | 900000 21600 5200 150000 89100 39000 160000 25705 700 500 | 3000 600 16525 50000 16970 | 3000 1250000 169900 48700 1100 |
| Pickerel, lbs. Sardines, preserved cans. Sardines, bris. Flounders, lbs. Ton: cod or frost fish lbs. | | 900000 21600 5200 150000 25705 3800 150000 25705 700 | 3000 16525 50000 16970 | 3000 1250000 169900 |
| Pickerel, 1bs. Sardines, preserved cans. Sardines, brls. Sardines, brls. | | 900000 21600 150000 89100 150000 25705 | 3000 16525 50000 16970 | 3000 1250000 169900 |
| Pickerel, lbs. Sardines, preserved cans. | | 900000 | 3000 | 3000 |
| reaux, bris. Pickerel, ibs. Sardines, preserved | | | 3000 | 3000 |
| reaux, bris. | | _ : : : : | | <u> </u> |
| Alewives or gaspereaux, bris. | | . : : 2 | 8::: | 1.8 |
| 1 | | | Ĝi · · | 88 |
| Smelts, lbs. | | | 0008 | 11000 |
| Trout, lbe. | | | 5500 | 14000 |
| Halibut, Ibs. | | 10000 5000 1000 | 10000 10000 1000 | 00029 |
| Pollock, cwt. | | 380 3079 450 | 998 9060 050 050 | 14430 17402 67000 |
| Hake sounds, lbs. | | 1400 | 4530 250 | 14430 |
| Hake, dried, cwt. | | 4250 1899 1200 | 5740 3708 200 | 16997 |
| Districts. | Charlotte County. | epreaux to L'Etang. Etang to St. George. L. George to St. Stephen E. George and vicinity | t. Stephen and vicinity rand Manan ampobello Vert Isles | Totals |
| | Districts. | DISTRICTS. | Districts. Charlotte County. Lepreaux to L'Etang L'Etang to St. George St. George to St. Stephen St. George and vicinity. | DISTRICTS. Charlotte County. Charlotte County. L'Etang to St. George. St. George to St. Stephen. St. George and vicinity. St. Stephen and vicinity. Grand Manan. Campobello. West Isles. |

*In No. 1 add 5 barrels of shad and 9 seals, \$86. In No. 2 add 19 barrels of squid, \$76.

RECAPITULATION

OF the Yield and Value of the Fisheries of District No. 1, New Brunswick, for the Year 1898.

| Kinds of Fish. | Quantity. | Price. | Value. |
|-----------------------------------------|--------------|---------|--------------|
| ^ . | | \$ cts. | \$ c |
| Salmon, fresh Lbs | | 0 20 | 870 0 |
| Scallops, canned Can | | 0 15 | 2,400 0 |
| " fresh Lbs | | 0 05 | 1,285 0 |
| Herring, pickled Brls | 6,234 | 4 00 | 24,936 0 |
| kippered | s. 240,000 | 0 10 | 24,000 0 |
| " Lbs | 50,000 | 0 05 | 2,500 0 |
| " fresh or frozen " | 20,326,750 | 0 01 | 203,267 5 |
| " smoked " | 8,803,256 | 0 02 | 176,065 1 |
| Mackerel, fresh " | 900 | 0 12 | 108 0 |
| canned | 8. 3,400 | 0 12 | 408 0 |
| Lobsters, canned | 108,072 | 0 20 | 21,614 4 |
| r freshCw | | 5 00 | 63,830 0 |
| Cod, dried | 5,535 | 4 00 | 22,140 0 |
| Clams, canned | | 0 10 | 4,300 0 |
| " shelled Bris | | 7 00 | 15.827 0 |
| Haddock, fresh | | 0 03 | 37,500 0 |
| ' 1 ' 1 ' A ' A ' A ' A ' A ' A ' A ' A | | 3 00 | 13,395 |
| Finnan haddies, smoked. Lbs | | 0 06 | 9,930 0 |
| · 1 | | 0 10 | |
| | | | 1,300 0 |
| Hake, dried Cwt | . 16,997 | 2 25 | 38,243 2 |
| sounds Lbs | | 0 50 | 7,215 0 |
| Pollock, dried Cwt | | 2 00 | 34,804 0 |
| Halibut, fresh Lbs | | 0 10 | 6,700 0 |
| Trout, fresh | 14,000 | 0 10 | 1,400 0 |
| Shad, pickled Brls | | 10 00 | 50 0 |
| Smelts, fresh Lbs | | 0 05 | 550 0 |
| Alewives, pickled Brls | | 4 00 | 1,040 0 |
| Pickerel, freshLbs | 3,000 | 0 05 | 150 0 |
| Sardines, canned Can | s. 1,250,000 | 0 05 | 62,500 0 |
| _ " fresh Brls | 169,900 | 2 00 | 339,800 0 |
| Flounders, fresh | 48,700 | 0 05 | 2,435 0 |
| Tom cod or frost fish | 1,100 | 0 05 | 55 0 |
| Squid Brls | . 19 | 4 00 | 76 0 |
| Coarse and mixed fish | 77 | 2 00 | 154 0 |
| Fish oil Gall | 1 | 0 30 | 11,790 0 |
| " used as bait Brls | | 1 50 | 6,450 0 |
| " manure | 12,355 | 0 50 | 6,177 5 |
| Seal skins | 12,000 | 4 00 | 36 0 |
| | l | | |
| Total value of catch for 1898 | | | 1,145,361 7 |
| " " 1897 | | | 870,287 3 |
| Increase during 1898 | | | 275,074 4 |

NUMBER and Value of Vessels, Boats, Nets, Weirs, &c., engaged in the Fisheries of District No. 1, New Brunswick, for the Year 1898.

| Material. | Value. |
|--------------------------------|---------|
| | |
| 48 vessels (tonnage 875) | 17,270 |
| ,059 boats. | 92,033 |
| 670 gill-nets (19,989 fathoms) | 7,242 |
| 289 weir seines (10,796) | 18,400 |
| 772 trawls | 7,191 |
| 315 weirs | 126,930 |
| 7 smelt nets | 70 |
| 406 hand lines | 777 |
| 8 lobster canneries | 18,200 |
| 059 lobster traps | 19,015 |
| 8 freezers and ice-houses. | |
| 797 smoke and fish houses. | 19,000 |
| | 136,565 |
| 278 piers and wharfs | 46,125 |
| 11 tugs, steamers and smacks | 4,875 |
| 2 sardine factories | 3,000 |
| 1 fish-curing factory | 3,500 |
| guano factory | 5,000 |
| 80 weir scows. | 4,000 |
| 50 pile-drivers | 500 |
| 30 fish-presses | 3,000 |
| Total value of material. | 532,673 |

 $11a - 8\frac{1}{3}$

NEW BRUNSWICK-District No. 2.

RETURN showing the Number, Tonnage and Value of Vessels and Boats, Nets, &c., in the District No. 2, Province of New Brunswick, for the Year 1898.

| Distrricts. Restigouche County. 1 Above Dalhousie 2 Below Dalhousie Totals (:loncester County. 2 Bathurst, Carrquet, &c. 2 Bathurst, Carrquet, &c. 4 Miscou and Shippegan Island. Totals | | Pishing Connegge. | C N Si Si Si Si Si Si Si Si Si Si Si Si Si | SS ELS Men | Namber. 158 88 35 25 158 Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. Namber. 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Boats Value. 9486000 4486000 11.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12.8500 12. | 299 86528 415 35 35 Мел. | 7. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. | Gill Nets. 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Smelt Nets. 200 200 200 130 255 113 255 113 256 296 296 296 296 296 297 200 200 200 200 200 200 200 200 200 20 | Value. Value. 1300 1130 1300 1700 1700 1700 1700 1700 | A Number. |
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| Northumberland County. 1 Negrae, &c. 2 Bay du Vin, &c. 3 Chatham, &c. 4 South-west and North-west Miramichi Rivers. | <u> </u> | 884 1 | 2800 2800 1. : | 11 7 7 18 18 | 925 925 130 130 | 3800 10000 4000 2600 | 270 550 150 130 | 1850 800 800 120 | 26000 80000 25000 9400 | 20000 20000 70000 70000 | 196 180 354 | 10000 8000 21000 | TORIA, A. 190 |

| County. |
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RETURN showing the Quantity and Value of Fish, &c.-New Brunswick-Continued.

| | | | | | 63 V | ICTORIA, | A. | 1900 |
|-------------------|------------------------------------|-------------------------------------------------------------|-----------|-----------------------------------------------------------------------------------------------------------------------|---------|--------------------------------------------------------------------------------------------|-------------|------|
| | Number. | 7 67 | | c1 t0 4 | | - 01 to 4 | | |
| * | Shad, brla. | : : | : | | | 950 950 950 950 | 1600 | |
| | Trout, lbs. | 12000 2500 | 14500 | | 22300 | 2500 1000 3000 16000 | 22500 1600 | - |
| | Halibut, lbs. | :: | | 2000 7000 10000 | DOC: FO | 1000 | 450 2000 | - |
| | Hake, sounds, lbs. | :: | | 1800 1800 1800 1800 1800 | 100 | 300 | 450 | |
| | Hake, dried, cwt. | :: | | | 811 | 200 | 300 | - |
| | Haddock, dried, cwt. | : : | : | | 3 | : : : : | <u> </u> | - |
| | Cod tongues and sounds, brls. | :: | | 282 | हु | :::: | : | - |
| ÷ | Cod, dried, cwt. | 100 | 100 | 2500 38000 7000 18500 | 0000 | 1800 150 150 | 2150 | - |
| Fisi | Lobsters, fresh in shell, cwt. | 390 | <u>\$</u> | 2 888 | 8 | 28 : : | 130 | _ |
| Kinds of Fish | In beters, preserved in cans, lbs. | 22550 | 22550 | 42000 195000 184000 481000 | 30200 | 48000 | 118000 | - |
| × | Mackerel, salted, brls. | :: | i : i | 858 <u>4</u> [| 줌 | :8 : : | ន | _ |
| | Mackerel, fresh, lbs. | 100 | 100 | 2000 22000 11000 | 45000 | 20000 25000 1500 | 46500 | - |
| | Herring, smoked, lbs. | : : | | 50000 | 20002 | 20000 | 10000 30000 | - |
| | Herring, fresh, lbs. | 2000 26000 | 28000 | | 130000 | 30000 | | _ |
| | Herring, salted, brls. | 100 | 2100 | 14550 32000 16100 10500 | 73100 | 2000 2000 100 | 6100 | - |
| | Salmon smoked, lbs. | : : | | ::: | | | 10000 | _ |
| | Salmon, preserved in cans, lbs. | : :: | | | 11000 | 200 | 200 | |
| Kinds of Fish. | Salmon, fresh, lbs. | 75000 150000 | 225000 | 130000 220000 69500 | 419500 | 65000 92650 80000 35000 | 272650 | |
| | Number. Districts. | Restigouche County. 1 Above Dalhousie. 2 Below Dalhousie. | Totals | Gloucester County. Beresford, &c. 2 Bathurst, Caraquet, &c. 3 Tracadie, Inkernan, &c. 4 Miscou and Shippegan Island. | Totals | Neguac, &c. 2 Bay du Vin, &c. 3 Chatham, &c. 4 South-west and North-west Miramichi Rivers. | Totals | |

| | æ : : | £8 | 1600 1600 | 2010 | 200 | 3875 |
|--------------|-------------------------------------------------------------------|-----------|------------------------------------------------------------------------------|---------|---------------|---------------|
| | 11980 2300 1200 | 15480 | 5000 4500 3000 1 | 12500 2 | 2000 | 94480 3 |
| | 500 | 4500 | ::: | | : | 44000 |
| | 000 : 800 : | 008 | ::: | | : | 4850 |
| | 1300 2000 200 800 100 | 1600 2800 | : : : | 1:1 | 40 | 650 3040 4850 |
| | | | 8 : : | E | : | |
| | 8 | 8 | | | | 160 |
| | 2600 180 100 | 2880 | 26.26 | 100 | 8 | 71290 |
| | 2222 | 250 | 1000 1000 | 1250 | <u>:</u> | 2620 |
| | 250000 140600 72000 | 462600 | 250000 | 200000 | | 2005150 |
| | 882 | 2 | : : : | T:1 | : | 250 |
| | 176000 1000 500 | 177500 | 1500 2000 | 3500 | : | 272600 |
| | | | 35000 | 50000 | | 10000 |
| | 28000 9000 10000 | 47000 | 40000 | 440000 | 2000 | 687000 |
| | 15200 10000 4000 | 29200 | 35000 10000 50 | 45050 | 250 | 10000 155800 |
| | | | | | : | (' ' |
| | 8 : : | 138 | | | : | 11600 |
| | 28000 | 28000 | 4000 | 6500 | 3000 | 954650 |
| Kent County. | 1 Carleton, Richibucto, &c. 2 Buctouche, &c. 3 Cocagne, &c. | Totals | Westmortund County. 1 Shediac, &c. 2 Doctord, Sackville, &c. 2 Doctorhester | Totals | Albert County | Grand totals |

RETURN showing the Quantity and Value of Fish, &c.-New Brunswick-Continued.

| KINDS OF FISH. | Dass, lbs. Clams, brls. Eels, brls. Oysters, brls. Tod cod or frost fish, lbs. Tod cod or frost fish, brls. | 40 20000 100 20 100 4000 3000 20 | 140 4000 23000 100 20 | | 2000 50 800.1 2000 300 2000 3.0 3.0 1200 2000 1.000 1200 5000 200 450 100 600 200 120 5000 100 100 200 500 500 500 | 32000 1300 900 1300 36000 113000 . 700 18500 | WOOD COOK | 25000 50 38 386 000 7000 30000 1200000 200 (75000 5000 50 200 5000 5000 5000 5000 50 | 285000 900 270 366000 16000 45000 1270000 1000 350 |
|----------------|------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|-----------------------|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|------------------------|--------------------------------------------------------------------------------------------------|----------------------------------------------------|
| | Smelts, lbs. Alewives or gaspereau, bris. | 485000 | 520000 | | 6000 2 460000 2 355000 1500 250000 | 1072000 1500 3 | | 610000 170 2 1400000 150 3 120000 150 3 | 2690000 3020 28 |
| | Митъег. Біятистъ. | Restigouche County. 1 Above Dalhousie. 2 Below Dalhousie | Totals | Gloucester County. | 1 Beresford, &c. 2 Bathurst, Caraquet, &c. 3 Tracadie, Inkerman, &c. 4 Miscou and Shippegan Island. | Totals | Northumberland County. | 1 Neguac, &c Shad du Vin, &c 3 Chatham, &c 4 South-west and North-west Miranichi Rivers | Totals |

| | – 0100 | | ~, <u>~</u> , | -016 | | - | |
|---------------|----------------------------------------------------------------------------------------|----------------|---------------------|--------------------------------------------------------------|----------|-----------------|-------------------------|
| | 242616 135299 51755 | 429670 | | 274210 136196 17718 | 428124 | 6899 | 2427415 |
| | ∞ · · | 6 | | : : : | | . 1 | 13 |
| | 1500 | 0099 | | 10000 | 11000 | : | 62900 13 |
| | 3500 30.00 2000 | 8200 | | 12000 | 27000 | | 62050 |
| | 1400 60 | 1460 | | 888 | 180 | <u>8</u> | 20540 |
| | 986 700 1 | 1060 | | <u>§</u> : : | <u>S</u> | 25 | 3410 |
| _ | ଛ : : | 8 | | : : | | | 8 |
| | 148000 20 100000 20000 | 268000 20 1060 | | 8000 10000 10000 | 28000 | 30000 | 1732000 20 3410 |
| | 28000 | 28000 | | | : | : | 113000 |
| | 3500 1000 | 3000 | | 150 225 | 375 | : | 22675 |
| - | | : | | | : | : | 346100 4050 2529 366000 |
| | 88 80 10 10 10 10 10 10 10 10 10 10 10 10 10 | 920 | | 358 | 245 | 24 | 2529 |
| | 905 905 905 | 2100 | | 380 150 | 55 | _ :_ | 40:30 |
| | 22500 1000 500 | 24000 | | 1500 | 6500 | 400 | 346900 |
| | 2800 1000 500 | 4300 | | 1200 | 1700 | : | 10520 |
| | 960000 580000 145000 | 1685000 | | \$00000 240000 | 1010000 | 3000 | 7010000 |
| Kent. County. | Carleton, Richibucto, &c 2 Buctouche, &c. 3 Cocagne, &c. | Totals. | Westmorland County. | 1 Shediac, &c. 2 Botsford, Sackville, &c. 3 Dorchester | Totals | 1 Albert County | Grand totals |

RECAPITULATION

Or the Yield and Value of the Fisheries in District No. 2, New Brunswick, for the Year 1898.

| Kinds of Fish. | Quantity. | Price. | Value. |
|---------------------------|------------------|--------------|---------------------------|
| | | | |
| almon, fresh Lbs. | 954,650 | 0 20 | 190,930 00 |
| " in cans | 11,600 | 0 15 | 1,740 00 |
| ** smoked | 10,000 | 0 20 | 2,000 00 |
| Ierring Brls. | 155,800 | 4 00 | 623,200 00 |
| " fresh Lbs. | 687,000 | 0 01 | 6,870 00 |
| " smoked | 100,000 | 0 02 | 2,000 00 |
| [ackerel Brls. | 250 | 15 00 | 3,750 00 |
| fresh Lbs. | 272,600 | 0 12 | 32,712 00 |
| | 2,005,150 | 0 20 | 401,030 00 |
| lod | 2,620 | 5 00 | 13,100 00 |
| tongues and sounds. Brls. | 71,290 | 4 00 | 285,160 00 |
| lake | 160 | 10 00 | 1,600 00 |
| " sounds Lbs. | 3,040 4,850 | 2 25 | 6,840 00 |
| Laddock | 4,650 659 | 0 50 3 00 | 2,425 00 |
| rout Lbs. | 94,480 | 0 10 | 1,950 00 |
| alibut | 44,000 | 0 10 | 9,448 00 4,400 00 |
| melts | 7,010,000 | 0 05 | 350,500 00 |
| ass | 346,900 | 0 10 | 34,690 00 |
| lewives Brls. | 10,520 | 4 00 | 42,080 0 |
| ysters | 22,675 | 4 00 | 90,700 00 |
| lams | 4,050 | 2 00 | 8,100 00 |
| els | 2,529 | 10 00 | 25,290 00 |
| nad | 3,875 | 10 00 | 38,750 00 |
| quid | 20 | 4 00 | 80 00 |
| rdines | 366,000 | 0 05 | 18,300 00 |
| rost fish | 113,000 | 0 05 | 5,6 5 0 0 0 |
| oarse fish | 1,732,000 | 0 05 | 86,600 00 |
| ish oil | 3,410 | 2 00 | 6,820 00 |
| ish as bait Brls. | 20,540 62,050 | 0 30 | 6,162 00 |
| manure | 62,900 | 1 50 | 93,075 00 |
| eal skins | 13 | 0 50 1 00 | 31,450 00 13 00 |
| | 10 | 1 00 | 13 00 |

Number and Value of Vessels, Boats, Nets, Traps, &c., engaged in the Fisheries in District No. 2, New Brunswick, in the Year 1898.

| Material. | Value. | Total. |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|
| | \$ cts. | |
| 220 vessels (aggregate tonnage, 2,517). 4,098 boats. 64,400 fathoms of nets 2,396 smelt nets. 400 bass scoop-nets 3 mackerel trap-nets. 67 trawls. 2,650 hand lines. | 106,200 00 | |
| 201 loister factories | 125,900 00 184,560 00 | 601,505 00 310,460 00 |
| 156 freezers and ice-houses | 27,180 00 9,520 00 | 131,100 00 |

NEW BRUNSWICK-District No. 3.

| lumber of Vessels and Boats, Nets, &c., and the Quantity and Value of Fish caught in District No. 3, Province | |
|---------------------------------------------------------------------------------------------------------------|--------------------|
| y and Value of Fish | ear of 1898. |
| &c., and the Quantity | unswick, for the Y |
| sels and Boats, Nets, | of New Bri |
| showing the Number of Ves | |
| RETUR | |

| | Number. | | -01004TC | 700-7 1 aa | 6 10 10 11 | |
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| | Cod, dried, cwt | | 55888 | 200 | | 599 |
| Lobsters, fresh in shell, | | | 2500 1600 600 1150 | 0689 | | |
| .adl ,das | White perch, fr | | | | 30000 | 30000 |
| d, lbs. | Herring, smoke | | 25000 | 25000 | . 0006 | 34000 |
| brls. | Herring, salted | | 250 250 320 320 | 1220 | 98 : : : : | 99 88 |
| , bris. | Salmon, smoked | | · · · · · · · · · · · · · · · · · · · | | | 2 2 |
| .ba. | Salmon, fresh, l | | 45867 15600 76000 5000 1200 | 143667 | 30000 4500 3000 55000 6000 4000 | 72500 |
| eirs. | Value. | ø, | 11200 | 13200 | | 13200 |
| > | Xumber. | | 8 : 1a : | 188 | | <u> </u> |
| | Value. | 6 | | | | : 961 |
| eine | Fathoms. | | | 1255 | | 25 1255 1960 33 |
| Seines. | Number. | | ∞ :.c⊠ : | 133 | | 1 1 1 2 2 |
| Nets. | Value. | 6 € | 66000 24000 60000 38000 14600 | 202600 | 15000 12500 50:0 4000 375 750 | 37625 |
| Gill D | Fathoms. | | 66000 24000 60000 38000 14600 | 202600 | 20000 25000 10000 6000 1500 | 1286 63000 37625 2092 265600 240225 |
| | Men. | | 821 821 821 821 821 821 821 821 821 821 | 900 | 300 400 116 220 180 | 1286 |
| Boats. | Value. | 4 5 | 8400 3600 6000 3040 1750 | 22790 | 6000 2400 1160 2200 350 500 | 12610 35400 |
| | Number | | 250 888 888 888 | 403 | 200 200 200 1110 35 90 | 643 1046 |
| | Men. | | 1082 | 18 | :014 : : : | 9 8 |
| ls. | Value. | ₩ | 8800 6000 | 440 | 000 : : : | 1100 |
| Verse | Топпаge. | | 30 140 20 | 722 | :04 : : : | 82 82 |
| | Number. | | <u>₩ F-Ø1 : :</u> | 22 | | 2 4 |
| Disensity | | St. John County. | t. John Harbour hipper Harbour isarinco. Linguash L. Martin's | Totals | Other Counties. ing's ueen's unbury ork | Totals |
| | Verwels. Seines. Weirs. 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SESSIONAL PAPER No. 11a

| .) | | Number. | | | | 8 6 6 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | |
|------------------------------------------------------------------------------------|----------------|---------------------------------------------|------------------|---------------------------------------------------------------------------|-----------------|--------------------------------------------------------------------------------------|-----------------------------|
| | | TOTAL VALUE ALL FISH. | e cts. | 132,753 40 31,765 00 28,563 75 8,998 50 11,590 00 | 213,670 65 | *17,065 00 16,690 00 7,280 00 14,140 00 3,985 00 8,825 00 8,825 00 | 62,910 00 276,580 65 |
| | | Fish as bait, brls. | | 2500 | 3000 | :::::: | : 00 |
| led. | | Fish oil, galls. | | | : | | 82 82 |
| ncluc | | Coarse and mixed fish, | | | : | 230 45 45 110 36 150 | 99 8 |
| K | | Smoked alewives, lbs. | | 95 300000 | 100 2095 300000 | 1090 | 128 1000 228 2095 301000 |
| wic | | Sardines, brls. | | :୍ଞ | 2005 | | : 606 |
| nsı | | Fels, bris. | | 100 | 8 | | |
| w Bru | | Біскеге), 10в. | | | | 30000 40000 30000 20000 15000 4000 | 139000 |
| Ne | Fısн. | Base, Ibs. | | | : | 3000 | 9000 |
| okc. | Kinds of Fish. | Alewives or gaspereau, | | 3. 375 | 12375 | 400 3000 1400 1000 | 3200 3000 |
| ish, | KIN | Fresh shad, lbs. | | 8000 | 730 8000 | ::::: | 0008 |
| of H | | Shad, brla. | | 3. | 730 | 58888 | 1115 |
| /alue | | Trout, lbs. | | | | 16000 7000 1000 15000 20000 | 77000 1115 |
| pu | | Pollock, cwt. | | 175 25 200 | 9 | | : 60 |
| ity a | | Hake, dried, cwt. | | 825 255 800 800 800 800 | 4915 | 200 | 55 55 |
| Quant | | Haddock, (smoked fin- nan haddies), lbs. | | 750000 450 3000 3000 415 250 800 | 750000 4915 | | 750000 5415 |
| nds, | | Haddock, dried, cwt. | | 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | 4110 | : : : : : : ! | #110 |
| » Ki | | Cod tongues and sounds, bris. | | | <u> </u> | :::::! | . ~- |
| RETURN showing the Kinds, Quantity and Value of Fish, &c.—New Brunswick—Concluded. | | Districts. | St. John County. | 1 St. John Harbour 2 Dipper Harbour 3 Pisarinco 4 Musquash 5 St. Martia's | Totals | 6 King's. 7 Queen's 8 Sunbury. 9 York. 10 Carleton. | Totals |
| . 1 | t . | Number. | | | | 21.8232 | |

* Nork. —In No. 6, add 15,000 lbs. sturgeon and 13 kegs of caviare.

RECAPITULATION

Or the catch of Fish in District No 3, New Brunswick, for the Year 1898.

| Kinds of Fish. | Quantity. | Price. | Value. |
|----------------------------|-----------|---------|-----------|
| | | \$ cts. | 8 c |
| almon, salted Brls. | 15 | 15 00 | 225 |
| " fresh Lbs. | 216.167 | 0 20 | 43,233 |
| Ierring, salted Brls. | 1,820 | 4 00 | 7.280 |
| smoked. Lbs. | 34,000 | 0 02 | 680 |
| White perch | 30,000 | 0 05 | 1.500 |
| obster fresh Cwt. | 6,390 | 5 00 | 31,950 |
| od | 599 | 4 00 | 2,396 |
| u tongues and sounds Brls. | 3 | 10 00 | 30 |
| addock Cwt. | 4,110 | 3 00 | 12,330 |
| iii finnan haddies. Lbs. | 750,000 | 0 06 | 45,000 |
| ake | 5,415 | 2 25 | 12,183 |
| ollock | 400 | 2 00 | 800 |
| rout Lbs. | 77,000 | 0 10 | 7,700 |
| had Brls. | 1.845 | 10 00 | 18,450 |
| r fresh Each | 8,000 | 0 10 | 800 |
| lewives Brls. | 15,575 | 4 00 | 62,300 |
| enioked. Lbs. | 301,000 | 0 02 | 6,020 |
| 388 | 3,000 | 0 10 | 300 |
| ickerel. | 139,000 | 0 05 | 6,950 |
| e's Brls. | 228 | 10 00 | 2,280 |
| rdines " | 2,095 | 1 50 | 3,142 |
| curgeon Lbs. | 15,000 | 0 07 | 1.050 |
| aviare Kegs. | 13 + | 35 00 | 455 |
| ish for bait Brls. | 2.500 | 3 00 | |
| oarse and mixed fish | 600 | 2 00 | 7,500 |
| oarse and mixed ush | 250 | 0 30 | 1,200 |
| ish for bait Brls. | | 1 50 | 75 750 |
| ish for bait Bris. | 500 | 1 50 | 750 |

RECAPITULATION

Or the Fishing Material in District No. 3, New Brunswick, for the Year 1898

| Material. | Total value |
|--------------------------------------------------------------------------------------------|----------------------------------|
| | \$ cts |
| 14 vessels (282 tons). ,046 boats. ,600 fathoms nets. .25 seines (1,255 fathoms). | 35,400 0 240,225 0 1,960 0 |
| 260 trawls. 33 weirs. 190 hand lines 85 canoes. 0,700 traps. | 13,200 (190 (850 (|
| 70 traps 59 ice-houses 109 smoke and fish-houses 70 wharfs and piers 6 steamers and smacks | 8,700 (42,800 (38,200 (|

| | | Number. | | 100700 | င္း ကေ | 1225 | |
|----------------------------|---------------------------------------------|----------|----------|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|------------------------|
| | Smelt Nets | Value. | æ | 11300 39000 33500 13000 | | <u>112</u> | 348 140130 2403 106270 |
| ! | Smel | Number. | | 3255 355 355 355 355 355 355 355 355 355 | | 2 | 2403 |
|] | Weirs. | Value. | æ | | 13200 | 315 126930 | 40130 |
| <i>x</i> | š | Number. | | | 8 | 315-1 | 348 |
| FISHING GEAR OR MATERIALS. | Trawls. | Value. | * | 500 150 720 | 13000 | 7191 | 19516 |
| MA | Ţŗ | Number. | | ÷62 | 38. | 773 | 3 |
| EAR OR | | Value. | 95 | | 0961 | 18400 | 20360 1100 |
| ING G | Seines. | Fathoms. | | | 1255 | 98201 | 19041 |
| Fish | | Number. | | | রি | 682 | 314 |
| | ri. | Value, | Ø. | 26000 96000 112000 20 00 17500 | 202600 15000 12500 5000 | 4000 375 750 7242 | 590467 |
| | Gill Nets. | Fathoms. | | 135 2:000 26000 2290 270000 96000 2970 140400 112000 3580 76600 17500 1135 50600 6M | 4050 202600 202600 400 20000 15000 500 25000 12500 200 10000 5000 | 6000 1500 1988 | 16100 8 10080 590467 |
| İ | Ď | Number. | | 2250 2250 2970 3580 1135 | 2.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 85 | 16100 |
| gi j | FISHING VESSELS AND BOATS. Vessels. Boats. | Мел. | | 415 2990 1100 1960 1364 | . 50 8 11 8 0 0 5 11 | 22 02 18 18 18 18 18 18 18 18 18 18 18 18 18 | 11976 |
| BOAT | | Value. | % | 4600 220400 29000 119600 | 22730 6000 1160 | 350 350 500 92033 | 228016 2069 200 |
| 3 ANI | | Number. | | 226 1580 670 712 | <u>. 25 28 8</u> | 110 35 90 224 1059 | 5003 |
| SSEL | | Men. | | . 68 . 6 . 6 | | 224 | 00 |
| NG VE | Vessels. | Value. | €€ | 85000 5260 950 | 300 800 800 | 17250 | 989 3674 114500 |
| Явні | V_{es} | Tonnage. | | 1 28 208 2290 9 163 2 36 | 85 S | 875 | 2674 |
| | | Number. | | 1800 | 12 | | 8 |
| ` | Counties. | | | 1 Restigouche 2 Gloucester* 3 Northumberland * 4 Kent* 5 Westmordand. | 9 St. John 8 King * 9 Queen's 10 Sunbury | 11 I York 12 Carleton 13 Victoria 14 Charlotte | Totals |

*Norg.—In No. 2, add 2 trap nets, \$2,000. In No. 4, add 1 trap net, \$1,000. ‡In No. 3, add 400 scoop bass nets, \$2,000.

SESSIONAL PAPER No. 11a

RECAPITULATION showing the Number, Tonnage and Value of Vessels and Boats and the Quantity and Value of Fish, &c.—New Brunswick—Continued.

| ì | Number. | | 00000000000000000000000000000000000000 |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| lted, bris. | Herring, sa | | 2100 73100 6100 29200 2550 2550 1220 600 |
| Salmon, preserved in cans, lbs. | | | 10000 *15 *15 (100001bs) |
| | | | 11000 500 100 1000 10000 |
| sp' lbs. | Salmon, fre | | 225000 419500 272550 5500 6500 143867 3000 4500 6000 6000 4350 4350 |
| ugs, amers nd acks. | Value. | Œ. | 1700 6000 8000 8000 3000 4875 |
| Stea | Number. | | 1124 1139 111 111 |
| iers ind harfs. | Value, | ₩ | 200 77700 820 800 38200 46125 93845 |
| W P | Number. | | 23 4 4 4 70 70 70 872 897 |
| noke I Fish uses. | Value. | 669 | 12100 2 300 27500 130 11700 27500 130 11700 2000 120 1700 1200 15 750 500 20 1000 797 136565 89000 1313 206545 |
| Si and Ho | Number | | 130 130 130 120 120 150 150 150 150 150 150 150 150 150 15 |
| ezers d Ice ouses. | Value. | € € | |
| Fre H | Number. | | 27.7.1.1.2 |
| -ma sbasd | Number of ployed. | | 76 320 320 1200 1650 400 318 |
| · sdr | Value. | 6 | 3060 74000 11000 49500 47000 10700 19015 |
| Ë | Number. | | 3260 80700 13000 55000 58000 10700 23059 |
| neries. | Value. | 6 | 2 1300 3250 3060 76 60 43700 80700 11000 230 61 43000 58000 47000 1550 61 43000 58000 47000 1650 61 43000 28000 47000 1650 61 43000 28000 10700 400 61 48000 23069 19015 318 |
| Can | Number. | | 60 113 55 61 61 61 8 |
| Counties. | | | Restigouche 2 Gloucester 2 Gloucester 4 Knorthumberland 4 Knorthumberland 5 Westmoreland 5 Mestmoreland 5 Mestmoreland 6 Mestro 6 Mestro 6 Mestro 6 Mestro 7 St. John 8 King's 9 Queen's 10 Subury 11 York 11 York 12 Carleton 12 Carleton 13 Victoria 14 Charlotte 14 Charlotte 15 Mestro 16 Mestro 16 Mestro 17 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro 18 Mestro |
| | Canneries. Traps. and Ite and Fish and and Parfs. Smoke Rouses. Wharfs. Smacks. And Smacks. Smacks. Smacks. Smacks. Smacks. Smacks. Smacks. | Value. Camber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annber. Annbe | Aumber. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue |

* Norm—Salted barrels.

Xumber,

63 VICTORIA, A. 1900

14500 22500 22500 1600 15480 65 12500 2010 7000 200 25452 19280 17802 111000 185480 5805 Shad, brls. Trout, lbs. 16997 14430 17402 67000 Halibut, lbs. RECAPITULATION showing the Quantity and Value of Fish, &c.—New Brunswick—Continued. Pollock, ewt. Hake sounds, lbs. 1250000 9225 915500 1250000 4465 165500 Smoked finnan had-Haddock, dried, ewt. KINDS OF FISH. Haddock, fresh, lbs. 163 Cod tongues and sounds, brls. 5535 77424 100 66000 2150 2880 100 Cod, dried, cwt. 2113222 21,776 108072 12766 Lobsters, fresh in shell, Lobsters, preserved in cans, lbs. 21013750 8937255 276900 250 ឌីឌឌ Mackerel, salted, brls. 100 45000 46500 77500 3500 Mackerel, fresh, lbs. 20326750 8803255 Herring, smoked, lbs. 28000 130000 40000 47000 2000 Herring, fresh, lbs. COUNTIES 4 Kent 5 Westmoreland 6 Albert 7 St. John 8 King's 10 Subury 11 York 12 Carleton 13 Victoria 14 Charlotte Restigouche Northumberland | Number.

RECAPITULATION showing the Quantity and Value of Fish, &c. -New Brunswick-Concluded.

| | ± g | cts. | 88 | 8 | 8 | 88 | 3:2 | 8 | 88 | 8 | 8 | 3 1 | £1 () : | 9 |
|---------------|--------------------------------|------|---------------------------|----------------|---------|--------------|------------------|----------|--------------------------------------------------------------|-----------------|------------|---------------|-------------------|--------------------------------------|
| | TOTAL VALUE OF ALL FISH. | 9€ | 93,058 | 481.249 | 429,670 | 428,124 | 0,080 213,670 | 17,065 | 16,690 7,230 | 7,530 14,140 | 3,960 | 3,820 | 9 1,145,361 | 22 3,849,357 |
| | Seal skins, Xo. | | - - | . च | 5 | - : | :. : | | : | | : | ; | <u>ح</u> | 33 |
| | Fish as manure, brls. | | 800 | 2000 | 0099 | 11000 | : | | : | | | 1 1 2 2 2 | 12300 | 75255 |
| | Fish as bait, brls. | | 980 | 7 | | 27000 | +3000 | : | : | : | | | 002 | 69350 |
| | Fish oil, galls. | | 20201 | 350 | | 180 | | 250 | : | : | | | 00202 | 06009 |
| | Coarse and mixed fish, | | 25 | | | 200 | | 30 30 | 49 % | 3 = | 8 | 8 1 | : | 082 |
| | Tom cod or frost fish. | | 23000 | _ | | 28000 | 30000 | | : | | | : ; | 9011 | 22675 6311 161700 1733100 4087 60090 |
| | Flounders, Ibs. | | 0007 | | | | | | : | : | : : | | 48700 | 161700 |
| FISH | Clams, brls. | | | 28 | 2100 | 450 | : | | : | : | : : | : } | 7.761 | 311 |
| Kinds of Fish | Oysters, brls. | | 1300 1300 | 16000 | 000 | 375 450 | | | : | | | | ·12 | 22675 |
| | Sardines, cans. | | | 366000 | | | 2095 hrls | | | | | (1250000) | 169900 brls.) | 1616000 1 |
| | Eels, bris. | | 45 645 | 270 | 950 | 245 | \$ 2 | 8 | 3 2 | 1 | ጸ | : | : | 27.37 |
| | Pickerel, lbs. | | • | : : | | : | : | 30000 | 40000 2000 2000 2000 2000 2000 2000 200 | 2000 | 15000 | 900 | 300% | 142000 |
| | Bass, lbs. | | OGREE | 285000 | 24000 | 5500 | <u>\$</u> | 3000 | : | | | : | : | 26355 349900 142000 2737 |
| | Alewives or gaspereau, | | 1500 | 3020 | 4300 | 1700 | +19375 | 400 | 1400 | 3 | : | : | 3 | 26355 |
| | Smelts, lbs. | | 520000 | 2690000 | 1685000 | 1040000 | SOKING | | : | - | | | 11000 | 7021000 |
| | Countirs. | | Restigouche | Northumberland | Kent | Westmoreland | Albert | 8 King's | 9 Queen's | Vork | 2 Carleton | 3 Victoria | 14 Charlotte | Totals |
| | Number. | | _ <u>H</u> 0 | 100 | 4 | 3 | 4 (). 0 () | 8 | 0 0 0 0 | | 2 | <u>~</u> | 4 → | |

+Note.—In No. 7, some of this bait is rated at \$3 per barrel. Add also 300,000 lbs. smoked alewives.
‡ In No. 8, add 15,000 lbs. sturgeon and 13 kegs of caviare.
\$ In No. 10, add 30,000 perch. No. 11, add 1,000 lbs. smoked alewives.
* In No. 14, several items are included not in the columns, see p.

RECAPITULATION

Or the Yield and Value of the Fisheries of the whole Province of New Brunswick, for the Year 1898.

| Kinds of Fish. | Quantity. | Price. | Value. | Total Value. | |
|------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|--------------------------------------|-----------------------------------------------------|------------------------------------------------------------|--|
| | | \$ ets. | \$ ets. | \$ cts | |
| Salmon, fresh. Lbs. " preserved in cans. " " smoked. " " salted. Brls. | $1,175,167 \\ 11,600 \\ 10,000 \\ 15$ | 0 20 0 15 0 20 15 00 | 235,033 40 1,740 00 2,000 00 225 00 | | |
| Herring, salted " " fresh or frozen Lbs. " smoked " " kippered Cans. | $163,854 \\ 21,013,750 \\ 8,937,255 \\ 265,000$ | 4 00 0 01 0 02 0 10 | 655,416 00 210,137 50 178,745 10 26,500 00 | 238,998 40 | |
| Mackerel, salted. Brls. r fresh. Lbs. | 250 276,900 | 15 00 0 12 | 3,750 00 33,228 00 | 1,070,798 60 | |
| Cod, dried | 77,424 163 | 4 00 10 00 | 309,696 00 1,630 00 | 36,978 00 | |
| Haddock, dried. Cwt. "fresh. Lbs. "smoked (finnan haddies). " | 9,225 $1,250,000$ $929,100$ | 3 00 0 03 0 06 | 27,675 00 37,500 00 56,290 00 | 311,326 00 | |
| Hake, dried | 25,452 19,280 | 2 25 0 50 | 57,267 00 9,640 00 | 121,465 00 | |
| Pollock | 17,802 1,733,100 111,000 | 2 00 0 05 0 10 0 10 | | 66,907 00 35,604 00 86,655 00 11,100 00 | |
| Trout " Smelts " Bass " Alewives Brls. | 185,480 7,021,000 349,900 27,860 | 0 05 0 10 4 00 | | 18,548 00 351,050 00 34,990 00 111,440 00 | |
| Shad Eels " Sardines " preserved Cans. | 5,805 2,757 171,995 1,616,000 | 10 00 10 00 0 05 | 342,942 50 80,800 00 | 58,050 00 27,570 00 | |
| Squid Brls. Pickerel Lbs. Perch " Flounders " | 39 142,000 30,000 161,700 | 4 00 0 05 0 05 0 05 0 05 | | 423,742 50 156 00 7,100 00 1,500 00 8,085 00 | |
| Sturgeon | 15,000 | 0 07 35 00 | 1,050 00 455 00 | 1,505 00 | |
| Oysters Brls. Clams " preserved Cans | 22,675 6,311 43,300 | 4 00 | 23,927 00 4,300 00 | 90,700 00 | |
| Scallops Lbs. Lobsters, preserved in cans | 41,700 2,113,222 21,776 | 0 20 5 00 | 422,644 40 108,880 00 | 28,227 00 3,685 00 | |
| $ \begin{array}{llllllllllllllllllllllllllllllllllll$ | 4,087 22 60,090 69,350 | 2 00 0 30 1 50 | | 531,524 40 8,174 00 49 00 18,027 00 107,775 00 | |
| Total for 1898 | 75,255 | 0 50 | | 37,627 50 | |
| | | | | 3,934,135 40 84,778 00 | |

RECAPITULATION

Of the Vessels, Boats, Nets, and all Fishing Material used in the Fisheries of the whole Province of New Brunswick, in the Year 1898.

| Articles. | Value. | Total. | |
|-------------------------------------------|----------------------|--------------|--|
| | \$ cts. | \$ ets. | |
| 282 fishing vessels (3,674 tons) | 114,500 00 | | |
| 6,203 " boats | 249,833 00 | | |
| 16,100 gill-nets (849,989 fathoms) | 520,467 00 | | |
| 314 seines (12,041 fathoms) | 20,360 00 | | |
| 3 trap-nets | 3,000 00 | | |
| 348 weirs | 140,130 00 | | |
| 2,403 smelt nets (bag-nets) | 106,270 00 | | |
| 400 bass nets | 2,000 00 | | |
| 1,099 trawls | 21,561 00 | | |
| 4,246 hand-lines | 2,792 00 | | |
| 40033 | | 1,180,913 00 | |
| 199 lobster canneries. | 144,100 00 | | |
| 43,719 " traps | 214,275 00 | 0F0 0FF 00 | |
| 000 t | 00.000.00 | 358,375 00 | |
| 223 freezers and ice-houses | 89,000 00 | | |
| 1,313 smoke-houses, &c | 206,545 00 | | |
| 2 sardine canneries | 12,400 00 | | |
| | 3,000 00 | | |
| 1 fish curing factory | 3,500 00 5,000 00 | | |
| 30 fish presses | 3,000 00 | | |
| 189 tugs or smacks. | 28,575 00 | | |
| 80 weir scows and 50 pile-drivers (\$500) | 4.500 00 | | |
| 85 canoes (for fishing purposes) | 850 00 | | |
| 397 piers or fishing wharfs. | 93,845 00 | | |
| our picto or norming whatton | | 450,215 00 | |
| Total | 1 | 1,989,503 00 | |

Number of Men employed in the Fisheries of New Brunswick, 1898.

| Men in fishing vessels | 11,276 |
|------------------------|--------|
| Total | 17,747 |

APPENDIX No. 5.

PRINCE EDWARD ISLAND.

REPORT ON THE FISHERIES OF PRINCE EDWARD ISLAND FOR 1898, BY INSPECTOR OF FISHERIES J. A. MATHESON.

CHARLOTTETOWN, P.E.I., January 2, 1899.

The Hon. Sir Louis H. Davies, K.C.M.G.,

Minister of Marine and Fisheries,

Sir.—I have the honour to submit my report of the fisheries of the province of Prince Edward Island for the season 1898, together with a tabulated statement of the yield and value in the different counties. The value of the catch for the island was as follows:—Yield in 1897, \$954,949 45. Yield in 1898, \$1,070,206 70. An increase of \$115,257 25.

MACKEREL.

This branch of the fisheries shows about the same quantity and value as last season, although far short of an average catch, net fishing this season being even worse than last. Our fishermen almost despair of the mackerel again returning to our waters. Were it not for the high price obtained, this fishing would be almost abandoned, thus occasioning a great loss to the province.

OYSTERS.

Notwithstanding the great number of men and boats employed in previous years in this fishery, I find the output for the year 1898 has increased 5,969 barrels, principally due to the large Queen's county catch. The law in reference to small oysters was fairly well observed, but in order to have this regulation work with more beneficial results it will be necessary to place a good man at each of the principal landings to examine the oysters before being barrelled and see that all undersized fish are returned to the beds. This is all the more necessary as the present limit of two inches in diameter is almost too small for the protection of this fishery, and if the size limit cannot be enforced no doubt the results will be disastrous. In Richmond Bay during the summer and fall months, drags have been used by the large boats and although a good many convictions have been obtained against offenders, it is almost impossible to entirely probibit this means of fishing, the bay being so large that the officers cannot recognize the offenders to secure convictions. It will be hard to compel the discontinuance of the use of drags unless we can have a small tug or boat continuously on the bay. Some new oyster beds have been discovered this season, two small beds at Tracadie, one at Savage Harpour and one at Rustico; these I expect to have examined during the coming summer by Mr. Kemp, the oyster expert.

SMELTS

This fishery has slightly increased, entirely owing to the extra number of men and boats engaged in this branch of the industry. An extension of ten days was granted, but on account of the irregular crossing of the steamer *Stanley*, by which the fish were transported, the fishermen received no benefit from this privilege.

TROUT.

Tourists as well as our local sportmen have enjoyed good trout fishing this season. The regulations in regard to the dumping of sawdust in our streams and the use of netting, have been well observed and will no doubt improve this branch.

HERRING.

Large quantities of herring appeared on our coast as soon as the ice left our shores and enough were taken for home consumption and for lobster and mackerel bait, these being their principal use.

Fall herring although of excellent quality, were not as plentiful as usual and were

not sought after with the usual vigour.

LOBSTERS.

This fishery did not commence as early as usual owing to the ice remaining on the coast until about the tenth of May, and I regret to say that, although over 30 per cent more traps were used in this industry, the value of the catch has decreased \$14,702.25. This was caused partly by the lateness of the season which prevented the fishermen from getting out their traps as early as usual and principally by the scarcity and small size of the fish. A very small proportion of spawn or berried fish appeared this season owing, no doubt, to the lobsters not being old enough to carry the spawn. Only a few of the larger fish which keep in deep water supply spawn; and I look forward to seeing this industry become, in a very short time, so unprofitable that many will have to abandon it entirely. A large number of the canneries on the west and north sides of the island were closed about the first week in June owing to the scarcity of fish. It takes more traps each succeeding year to catch the average quantity of fish, and I believe that more strenuous efforts must be adopted to retain the present commercial value of this product.

COD.

I am pleased to report an increase of over twenty thousand dollars in this branch of the fisheries. Codfish struck in about the first week in June and continued plentiful throughout the season. The demand being good, prices were well sustained and the fishermen well remunerated for their season's work. Owing to the scarcity of mackerel on this coast, cod fishing will be prosecuted with greater vigour than in the past.

HAKE.

Fishing was much better than for the past two seasons and our fishermen are looking forward with brighter hopes for the future.

Overseer Nolan, of King's County, reports:—The herring fishing showed an increase of two thousand barrels over last year. He believes that the fish were as plentiful last year but were not as much sought after. Mackerel fishing was about the same as last year but far below an average catch. He noticed at East Point and at East and North Lakes, where the American fishing fleet generally fish and where most mackerel are taken by boat fishermen, that there was nearly twice the quantity caught this season as has been for the last three seasons. In his opinion, this fact is due chiefly to the prohibiting of seining. Should the practice of baiting fish around schooners and then catching them with seines be stopped, in the course of a short time, the fishing would again improve. Lobsters are not decreasing much in numbers but greatly in size. If every packer would object to taking lobsters carrying spawn they would eventually reap a decided benefit for themselves and fishermen. Codfish were both larger and more plentiful. All other kinds of fish appeared about as usual.

Overseer Davison, of Prince County, reports:—There was a slight increase in the quantity of oysters but he found great difficulty in preventing the use of drags and the landing of small oysters. The catch of lobsters in Egmont Bay has increased this season owing to the extension of time and to the greater number of men and traps. A large number of traps was destroyed and a number of convictions obtained for violation of the Fisheries Act. Other kinds of fish were about an average catch. A new industry has been started in the shipping of quahaugs to the United States, which has been quite satisfactory to shippers. Through time the export of quahaugs will likely be largely carried on.

Respectfully submitted,

J. A. MATHESON,
Inspector of Fisheries.

PRINCE EDWARD ISLAND.

RETURN showing the Number, Tonnage and Value of Vessels and Boats and the Quantity and Value of all Fishing Materials, and the Kinds and Quantities of Fish caught in the Province of Prince Edward Island, for the Year 1898.

| | Œ | ISHING | Vessi | Ls A) | FISHING VESSELS AND BOATS. | æ. | <u> </u> | FISHING GEAR OR MATERIALS. | GEAR | OR M | ATER | ALS. | | KINI | KINDS OF F | У іян. | |
|-----------------------------------|----------------------------------------------|------------------|--------------|--------------|----------------------------|--------|---------------------------------|----------------------------|--------------------------|----------------------------|-----------------|------------------|---------------------------------------|-----------------|-----------------|-----------------|-----------------|
| | | Vessels | at a | | Boats. | , si | | Gill Nets | | Trap Nets for Perch. | 254 | Trawls. | .adl ,t | , brls. | .sql | d, brls. | ni bəvr |
| Б Іятистя. | Number. | Tonnage. | Value. | Xumber. | Value. | Men. | Number. | Fathoms. | Value. | Number. | Value, | Number. Value | ————————————————————————————————————— | Herring, salted | Herring, fresh, | Mackerel, salte | Lobsters, prese |
| Kina's Countn | Ì | 1 | SF. | | ese. | 1 | | | ¥. | | 99 | % | - | | | | |
| Souris and Red Point | ca | æ | 200 | - 8 - 130 | | | | | 1200 | 30 | 250 | 300 3000 | 00 | 2000 | 30000 | 488 | |
| Bay Fortune | | : | | 7 | | | | | 2700 | 50 | | | | 0004 0005 | 15000 | និនិ | 44048 |
| Georgetown Warmer Honour North | 4 | 3 3 3 3 | 9000 9000 | # 55 25 | 3500 | 5.09 | 3 2 2 2 2 2 3 | 4500 | 1200 | : : | :: | | | 2008 | 20000 | 88 | |
| 6 do south | 12 | | | | | | | _ | 25. 26. 26. 26. | : : | : : | | 0008 | 968 | | 021 | |
| 7 Morell and St. Feter 8 | <u>- </u> | | _ : | | | | | | 1500 | - <u>:</u> - | : | | : : : | 300 | | 33 | |
| 9 North Lake | <u>:</u> | · · · | · : : | ~ ≈ | | | | | 268 268 | :: | . | | | 1000 | | 125 | |
| Totals | 18 | 475 11 | 11800 | 73 810 | 0 18400 | 0 1650 | 2785 | 55900 | 17950 | 8 | 410 | 990 6980 | 0008 | 23600 | 105000 | 1180 | 642944 |
| Value | | 1 | : | 1: | : | : | : | : | 1: | <u> </u> | <u>-</u> : | | 1600 | 94400 | 1050 | 17700 | 17700 128588 |

Number.

-01004000-0000

SESSIONAL PAPER No. 11a

TOTAL VALUE OF ALL FISH. 88388835558 ೫ 46,535 223,308 51,513 32,679 36,555 48,146 51,995 51,995 25,323 17,485 367,471 RETURN showing the Kinds and Quantities of Fish and Fish Products, &c.—Prince Edward Island—Continued 288888888888 8 875 875 Fish as manure, bris. 18750 Fish as bait, brls. 3630 Fish oil, galls. :00 140 280 Coarse and mixed fish, bris, 340 360 ន្តន្តន្តន្ត Squid, brls. 28600 28600 28600 28600 28600 28600 28600 37000 1850 Tom cod or frost fish, c 8 Oysters, brls. .8 28.2 8 8 Clams, brls. KINDS OF FISH. 570 8023 157 Eels, brls. :238 170 989 reau, brls. Alewives or gaspe-29000 1450 3melts, lbs. 39200 3920 Trout, lbs. 5200 520 Halibut, lbs. 10250 Hake sounds, lbs. 23062 10250 Hake, dried, cwt. 2925 975 :2222 Haddock, dried, cwt. 810 Ood tongnes and sounds, bris. 52000 350 1000 1000 1000 1000 1000 1000 Cod, dried, ewt **%** Kiny's County. DISTRICTS. Georgetown Murray Harbour, North do South Morell and St. Peter's. Naufrage. North Lake. Souris and Red Point Bay Fortune Value Annandale... deorgetown East Lake Number.

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| | A | Fish | FISHING VESSELS AND BOATS. | SHELS | and B | OATS. | | , | Fishin | Fishing Gear or Materials. | OR] | Мате | RIALS | | | | KINDS OF FISH. | e Fish | | |
|---------------------------------------------------|---------|----------|----------------------------|-----------------------------------------------|----------------|----------------------|---------------------------------------------------------|---------|------------|----------------------------|---------|----------|--------|-----------------|------------------|-----------------|-----------------|-----------------|------------------|------------------------|
| | | Vessels | els. | | Ä | Boats. | | 5 | Gill Nets. | | \ | Seines. | | Trawls | brls. | lbs. | .sql , | d, bris. | ni bəvr | illəde ni |
| DISTRICTS. | Number. | Tonnage. | Value. | ууси. | Number. | Value. | Men. | Zumber. | Fathonis. | Value. | Number. | Fathoms. | Value. | Number. | Herring, salted, | Herring, fresh, | Маскетев, ттевр | Mackerel, salte | csns, lbs. | Lobsters, fresh twenty |
| Queen's County. | | | ¥. | | | 99 | | | | 99 | | | æ. | 49 | | | | | | |
| Tracadie. | | :: | . <u>. :</u> ; ; | | | 2000 2000 | 5 83 | 348 | | 2088 1000 | : 37 | | 190 | 30 14 250 | 0 1200 | 20000 | 10000 | 150 200 | 67588 84500 | • : |
| SiCrapand 4 Point Prim 5 Rustice 6 Chemistratorum | 4 | 15 | | :: ·£ | | 1480 2250 2550 | 200 6 140 8 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 288 | 998 | 0 0 0 0 0 0 0 0 0 | | 270 | | 25° | 110 60 3500 | | 3000 | | 105648 107856 | 100 : |
| 7 Wheatley River. 8 Lot 65 9 Pownal | | | | 1 : : : : | *8 % \$ | 1550 272 400 | ~ 888 | 2 : : : | <u>6</u> | 27 | | | | | 1000 | | | | 30192 | |
| Totals | 1 | 12 |) § | 21 1 | 1433 | 11232 | 296 | 593 | 13735 | 33088 | 7 | 1020 | 56 | 70 710 | 0.747 | 70000 | 15000 | 650 | 546776 | 8 |
| Value | | - | - | <u> </u> | 1 | <u>L</u> . | | | | | | | | 1 | 088080 | 200 | 0001 | 0110 | 0750 10092500 | 102 |

| | Fish as manure, bris. Seal skins, Xo. Alth. Fish Mumber. | S cts. | 60 100 100 100 100 100 100 100 1 | |
|----------------|-------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| | Fish as bait, brls. | | 250 420 700 700 1520 | |
| | Fish oil, galls. | Figure - Space | 1000 1000 800 800 880 | |
| | Coarse and mixed fish, bris. | | | |
| | Squid, brls. | | 20.000 | |
| | Tom cod or frost fish, lbs. | | 5000 | |
| SH. | Oysters, brls. | | 1500 100 2100 3000 5000 | |
| KINDS OF FISH. | Eels, brls. | | 325 10 10 10 10 10 10 10 10 10 10 10 10 10 | |
| KIND | Clams, brls. | | 150 100 100 100 100 100 100 100 100 100 | |
| | Alewives or gaspereau, bris, | | 300 100 100 100 200 850 | |
| | Smelts, lbs. | | 500 20000 500 5000 500 5000 1000 12000 1500 10000 100 5000 100 5000 | |
| • | Trout, lbs. | | 2000 2000 1000 1000 1000 1000 1000 1000 | |
| | Hake, dried, cwt. | | 90 | |
| | Haddock, dried, lbs. | | 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 20000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2 | - [' |
| | Haddock, fresh, lbs. | | 12000 | |
| | Cod, dried, cwt. | | 1800 1500 2000 1000 6800 | |
| | Districts. | Queen's County. | 1 Tracadie 2 New London 3 Grapand 4 Point Prim 5 Rustico 6 Charlottetown 7 Wheatley River 7 Wheatley River 9 Pownal 10 Bays and Rivers Totals | |
| 1 | Xumber. | | HNDHRDNHHH | |

Number.

63 VICTORIA, A. 1900

398 5970 Mackerel, salted, brls. 11200 1344 RETURN showing the Number, Tonnage and Value of Vessels and Boats, &c.—Prince Edward Island—Continued. KINDS OF FISH. Mackerel, fresh, lbs. 20800 892 Herring, fresh, lbs. 25.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 55416 13854 #3 88 Herring, salted, brls. 8 380 Salmon, smoked, lbs. 80 Trap Nets. \mathbf{V} alue. Number. FISHING GRAR OR MATERIALS. $\mathbf{v_{alue}}.$ Seines. 53420 Fathoma. Number, Λ alue. Gill Nets. 333 2700 2700 2700 2700 800 530 23314 168 995 38 Fathoms. <u>812&&&27828</u> 14 Zumber. 029 Men. FISHING VESSELS AND BOATS. Boats. 4520 3510 915 915 7227 795 1500 1500 2910 2910 2910 436 436 456 650 1740 32714 2548×24 Number, R .u÷M 558 Vessels. 3300 Value. Топпаясе. Number Ellerslie Lot 12..... Prince County. DISTRICTS. 6 Narrows and Lot 11 Value Grand River Travellers' Rest Richmond Bay Roxbury Lot 6. Miminigash... 11 Roxbury Lot 6. 12 Fifteen Point 13 Brae 14 West Point Malpeque 16 Summerside Frog Pond 17 Carleton 18 Tryon. Number.

2 x 4 z 0 - 2 c 0 1 2 z 4 z 5 7 z 8

Number.

SESSIONAL PAPER No. 11a

TOTAL VALUE ន OF ALL FISH. 66,004 22,789 22,226 22,226 22,226 23,736 24,736 26,172 26,172 26,173 26,173 26,173 26,173 26,173 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27,149 27 127,376 RETURN showing the Kinds and Quantities of Fish and Fish Products, &c.--Prince Edward Island-Continued. 200 Fish as manure, brls. 17710 8000 850 850 26565 995 Fish as bait, brls. 4445 334 Fish oil, galls. 59116 14779 Oysters, brls. 3175 952 Quahanga, bushela. ጛ 20 Eels, brls. ଛ 120 8 Alewives or gaspereau, 8000 241489 12074 689 Smelts, lbs. 8 Shad, bris. KINDS OF FISH. 200 38 Trout, lbs. 2555 6570 5100 510 Halibut, lbs-3285 Hake, sounds, lbs. 5748 Hake, dried, cwt. 8 25 | 8 Haddock, dried, cwt. 20 Tongues & sounds, bris. 22288 5572 Cod, dried, ewt. 175 33 Lobsters, fresh in shell, 60000 16272 25920 960 54472 80496 75128 35712 10448 50276 230060 314496 23320 1150300 Lobaters, preserved in cans, lbs. Frog Fond

Mininigash

Malberton

Narrows and Lot 11

Fellerslie Lot 12

Richard River

Malpeque

Malpeque

Richanond Bay

Richanond Bay

Richen Point

Priteen Point

Is Brae.

West Point

Is Travellers' Rest

Koalfeton

Randeleton

Ray Prince County. DISTRICTS. Totals... Value Nail Pont Number

63 VICTORIA, A. 1906

RECAPITULATION by Counties showing the Number, Tonnage and Value of Vessels and Boats and the Quantity and Value of all Fishing Materials and other fixtures used in the Fishing Industry in the Province of Prince Edward Island, for the Year 1898.

| | Number. | e1 m | |
|---------|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Vets. | Value. | \$60 \$€ | 560 |
| Dip | Number. | 150 | 051 |
| ž | Value. | \$\$ 6980 710 248 | 7.038 |
| Trawl | Number. | 000 | 699 |
| ets. | Value. | \$ 410 1000 1000 | 1860 |
| Irap N | Xumber. | 130 | 506 |
| | .9nlsV | \$. 950 2400 | 3350 |
| Seines | Fathoms. | 1020 53420 | 54440 |
| | Number. | 75 | 9 |
| | .enla§√ | \$ 17950 3988 7735 | 29673 |
| ll Nets | Fathoms. | 55900 13735 23314 | 92949 |
| 5 | Хить бет. | 2785 593 1428 | 4806 |
| | Men. | 1650 967 1670 | 4287 |
| 30ats. | 'ən[v_Λ | \$ 18400 11232 32714 | 62346 |
| | Number. | 810 1433 906 | 3147 |
| — | Men. | 213 | 117 |
| ssels. | Value. | \$00 3300 | 15900 |
| Ve | Tonnage. | 574 1580 108 | 829 |
| | Number. | 840 | 8 |
| | D івт к іст к . | g's County. en's County tee County | Total |
| | | 1 :5 ž.t | |
| | Vessels. Boats. Gill Nets. Seines. Trap Nets. Dip Nets. | Value. Value. Value. Value. Value. Value. Value. Value. Value. Value. Value. Value. Value. Value. Value. Value. Value. Value. Value. Value. Value. Value. Value. Value. Value. Value. Value. Value. Value. Value. Value. Value. Value. Value. Value. Value. Value. Value. Value. Value. Value. Value. Value. Value. Value. Value. Value. Value. Value. Value. Value. | Vessels. Boats. Gill Nets. Beines. Trap Nets. Dip Nets. Yalue: Yalue: Yalue: Yalue: Yalue: Yalue: Yalue: Yalue: Yalue: Yalue: Yalue: Yalue: Yalue: Yalue: Yalue: Yalue: Yalue: Yalue: Yalue: Yalue: Yalue: Yalue: Yalue: Yalue: Yalue: Yalue: Yalue: Yalue: Yalue: Yalue: Yalue: Yalue: Yalue: Yalue: Yalue: Yalue: Yalue: Yalue: Yalue: Yalue: Yalue: Yalue: Yalue: Yalue: Yalue: Yalue: Yalue: Yalue: Yalue: Yalue: Yalue: Yalue: Yalue: Yalue: Yalue: Yalue: Yalue: Yalue: Yalue: Yalue: Yalue: Yalue: Yalue: Yalue: Yalue: Yalue: Yalue: Yalue: Yalue: Yalue: Yalue: Yalue: Yalu |

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| |
| Distracts. Zing's County 2 Queen's County 3 Prince County Total |

RECAPITULATION by Counties showing the Kinds and Quantities of Fish and Fish Products, in the Province of Prince Edward Island, for the Year 1898.

| | Salmon, smoked, Jbs. Herring, salted, brls Herring, fresh, lbs. | King's County 8000 23600 105000 15000 1200 1200 13854 76800 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 11200 1120 | Totals 8900 44924 251800 26200 |
|---------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| | Mackerel, salted, brls. Lobsters, preserved in cans, lbs. Lobsters, fresh in | 1180 642944 650 546776 398 1150300 | 2228 2340020 |
| KINDS OF FISH | shell, cwt. | 39 6800 35 5572 | 74 25372 |
| ISH. | Cod tongues and sounds, brls. Haddock, fresh, lbs | 81 13000 | 83 13000 |
| | Haddock, dried, ewt. | 975 0 5210 150 | 6335 |
| | Hake, dried. cwt. | 10250 400 2555 | 13200 |
| | Hake sounds, Ibs. | 20500 5 | 27070 10 |
| | Trout, ibs. | 5200 39200 3600 5100 500 | 0300 49300 |

| | | | | KIND | KINUS OF FISH | ÌsH. | | | | 됩 | FISH PRODUCTS. | ODUCTS | | |
|--------------------------------------------------|---------------------------|-----------------------------------|--------------|-----------------|------------------|----------------|--------------------------------|--------------|------------------------------|-----------------------|------------------------|--------------------|-----------------|---------------------------------------------------|
| Districts. | Smelts, lbs. | Alewives or gas- pereau, bris. | Clama, brls. | Quahangs, bush. | Eels, brls. | Oysters, brls. | Tom cod or trost fish, lbs. | Squid, brls. | Coarse and mixed fish, bris, | Fish oil, galls. | Fish as bait, brls. | slrd ennamas dei 4 | Seal skins, Xo. | TOTAL VALUE OF ALL FISH. |
| King's County Queen's County Frince County | 29000 378000 241489 | 170 850 8 | 90 415 | 3175 | 157 415 72 | 11700 14779 | 37000 | 340 170 | 140 82 | 12100 2880 4445 | 12500 1520 17710 | 875 890 200 | 502 | \$ cts. 367,471 30 275,359 20 427,376 20 |
| Totals | 648489 | 1050 | 505 | 3175 | 4 | 26484 | 37500 | 010 | 169 | 19425 | 31730 | 1665 | 8 | 1,070,206 70 |

RECAPITULATION

Showing Yield and Value of the different Fisheries in the Province of **Prince**Edward Island during the Year 1898.

| Kinds of Fish. | Quantity. | Price. | Value. | |
|-----------------------------|-----------|---------|-----------|-----|
| | 1 | \$ cts. | 8 (| cts |
| Salmon, smoked Lbs. | 8,900 | 0 20 | 1,780 | 00 |
| Herring, salted Brls. | 44,924 | 4 00 | 179,696 | |
| " fresh Lbs. | 251,800 | 0 01 | 2,518 | |
| Mackerel, salted | 2,228 | 15 00 | 33,420 | |
| fresh | 26,200 | 0 12 | 3,144 | |
| Lobsters, preserved in cans | 2,342,920 | 0 20 | 468,004 | |
| | | 5 00 | 370 | |
| fresh | 74 | | | |
| Cod dried | 25,372 | 4 00 | 101,488 | |
| Tongues and sounds Brls. | 83 | 10 00 | 830 | |
| Haddock, fresh Lbs. | 13,000 | 0 03 | 390 | |
| " dried Cwt. | 6,335 | 3 00 | 19,005 | |
| Hake, dried | 13,205 | 2 25 | 29,711 | 25 |
| soundsLbs. | 27.070 | 0 50 | 13,535 | 00 |
| Halibut | 10,300 | 0.10 | 1,030 | |
| Trout | 49,300 | 0 10 | 4.930 | |
| Shad Brls. | 3 | 10 00 | 30 | |
| Smelts Lbs. | 648,489 | 0 05 | 32,424 | |
| Alewives Brls. | 1,050 | 4 00 | 4,200 | |
| | 505 | 2 00 | | |
| Clams | | | 1,010 | |
| Eels ", | 644 | 10 00 | 6,440 | |
| Quahaugs Bush | | 0 30 | 952 | |
| Oysters Brls. | 26,484 | 4 00 | 105,936 | |
| Tom cod or frost fish Lbs. | 37,500 | 0 05 | 1,875 | 00 |
| Squid Brls. | 510 | 4 00 | 2,040 | 00 |
| Coarse and mixed fish | 160 | 2 00 | 320 | 00 |
| Fish oil | 19,425 | 0 30 | 5 827 | 50 |
| Fish as bait Brls. | 31,730 | 1 50 | 47,595 | |
| u guano Tons | | 1 00 | 1.665 | |
| Seal skins | 20 | 2 00 | 40 | |
| Total for 1898 | | | 1 070 206 | 70 |
| Total for 1897 | | | | |
| Increase | | | 115,257 | 25 |

RECAPITULATION

Showing the Number and Value of Vessels, Boats, Nets, Lobster Canneries, Traps, &c., used in the Fisheries of the Province of Prince Edward Island, Season of 1898.

| Number. | Articles. | Value. | Total Value. |
|---------|----------------------------|------------|--------------|
| | | \$ cts. | \$ cts. |
| 29 | Vessels, 658 tons | 15,900 00 | |
| 3,147 | Boats | 62,346 00 | |
| 4,806 | Gill nets, 92,949 fathonis | 29,673 00 | |
| . 1 | Trap-net | 1,000 00 | |
| 205 | for perch | 860 00 | |
| 10 | Seines, 54,440 fathoms | 3,350 00 | |
| 669 | Trawls | 7,938 00 | |
| 150 | Dip nets | 260 00 | |
| 184 | Smelt nets | 4,553 00 | |
| 2,781 | Hand lines | 2,174 50 | |
| | - | | 128,054 50 |
| 230 | Lobster canneries | 126,829 00 | , |
| 284,285 | " traps | 140,883 00 | |
| - • | - | | 267,712 00 |
| 3 | Freezers and ice-houses | 200 00 | .,. |
| 36 | Smoke and fish-houses | 5,560 00 | |
| 18 | Piers and wharfs | 16,880 00 | |
| | - | | 22,640 00 |
| 2 | Steamers and smacks | 1,500 00 | , |
| _ | - | | 1,500 00 |
| | Total value | | 419,916 50 |

APPENDIX No. 6.

QUEBEC.

REPORT ON THE GULF OF ST. LAWRENCE FISHERIES FOR THE SEASON OF 1898, BY FISHERY OFFICER WM. WAKEHAM, M.D., WITH SYNOPSIS OF OVERSEERS' REPORTS.

The Hon. Sir L. H. DAVIES, K.C.M.G.
Minister of Marine and Fisheries.

Sin,—I have the honour to present herewith the annual report and statistics of the fisheries of the Gulf division for the season of 1898. In preparing an advance statement to accompany the report for 1897, I had estimated that there would be found a very considerable falling off in the total yield of the season of 1898 as compared with 1897. The result of the tabulated statements, however, shows that the difference was slight, the total value in 1897 being \$1,393,126.40, and in 1898, \$1,381,226.10, or a decrease for the last season of only \$11,500.30. The fishing season opened early, and at first it was thought that we were going to have an abundant return from all the leading branches of the fishery, but as the season advanced complaints were heard in almost all directions that the returns were falling a long way behind an average.

COD.

Cod struck in early in May and though the returns show a slight increase in quantity over the catch of 1897 yet the season was not up to the average. On the north coast the capelin or summer school failed completely. This fishery, which is made along the coast from Natashquan to Blancs Sablons during the months of June and July, is dependent altogether on the movements of the capelin. When the capelin trims along shore and lingers for a few weeks among the bays and islands we are safe to have an abundant codfishing, made altogether inshore and in shoal water, the cod being taken mostly with cod traps or seines When from whatever cause, the capelin keep off shore, and passes from west to east, and through the straits of Belle Isle, then the summer codfishery, on what is known as the Canadian Labrador, fails. This failure to strike inshore on the part of the capelin occurs every now and then, and generally for two or three years in succession. We have had on the Labrador, for the five or six seasons preceding 1898, fairly good codfishing. It has failed in 1898, and the previous history of this fishery would lead us to expect two or three bad years in succession. Over the rest of the coast the fishery was about as usual, good when winds were favourable, and bait abundant. On the Labrador during the capelin school the cod are taken at the surface, where they school just like mackerel, elsewhere they are taken at the bottom, and this bottom fishery is almost more constant than the surface one.

SALMON.

The salmon net fishery was a fairly good one along the shores af Gaspé and Bonaventure, and on the upper part of the county of Saguenay; below Natashquan, like the cod fishery, it was a failure, due no doubt largely to the same cause, the keeping off shore of the capelin. Whenever the capelin are abundant inshore in the bays and estuaries and among the islands where the salmon nets are fished fishermen are assured of a good salmon net fishing. The salmon do not take to the rivers, but remain playing

11a - 10

about, and feeding on the capelin, which seem to hang by preference about the nets, swimming all through them; as a natural result of this large catches of salmon are made. Instinctively I suppose the salmon feeling that he has a long fast ahead of him, in fresh water, seeks to be well filled before entering his river; thus he follows the capelin off shore, and there remains, until late in the season when he proceeds directly up the river, escaping the coast nets, in fact frequently the main salmon run under such conditions as we had on the Labrador in 1898 only takes place late in July or in August when the nets are up. The salmon catch, in any one, or even a ccuple of seasons, whether with net or rod, is not a certain evidence of the extent of the salmon run.

HERRING.

Spring herring were everywhere abundant. These fish are mostly taken for bait, especially for the lobster fishery, though at the Magdalen Islands a considerable quantity is frequently carried in vessels to Lubec and other ports on the coast of Maine slightly salted in bulk and afterwards smoked. At one time during the existence of the Reciprocity Treaty with the United States many thousands of barrels of this lean herring were exported from the county of Bonaventure to Boston. This trade was effectually killed by the duty on pickled fish. Summer herring were not as plenty as usual, and the fall fishing for fat herring was a failure over most of the coast. On that part of the coast of Gaspé bordering on the southern shore of the Gulf west of Fame Point fat herring were very abundant for several weeks, and many fishermen devoted all their time to the capture and curing of herring, giving up the cod fishery; unfortunately much of this herring was carelessly cured, and put up in inferior barrels, so that the benefits which should have resulted to the coast were lost. The Labrador herring fishery was a failure.

MACKEREL.

The mackerel fishery, which is now confined entirely to the Magdalen Islands, there being no mackerel seen of recent years anywhere else in the Gulf division, was a fairly good one, the take being almost double that of the previous season. The spring mackerel fishery at the Magdalen Islands is greatly hampered by the practice of setting immense fleets of nets right across the mouth of Pleasant Bay: these nets are set by vessels from Nova Scotia and the United States. The local officer, Mr. Chevrier thinks (vide his report) that in the interest of the local fishermen this practice should be stopped, and that a cutter should be stationed at the islands to prevent it. We could of course control it within the three-mile limit, but outside of this, without some international arrangement, I do not see that we could stop it. This being the case, and as much of the fishing is now really done fully three miles off shore, from the Headlands, I do not see that we would gain very much by stopping gill-net fishing in the waters under our control. Our fishermen are on the spot. They should be first on the grounds, and do as others from a distance are doing. The injury to our mackerel fishery in the gulf is not done by any gill net fishing, but by the immense destruction of the large ripe mackerel made by the purse-seine fleet from Gloucester off the Nova Scotia coast in May and the early days of June. Prohibit the use of the purse-seine north off Cape Sable until after June 15, and the mackerel fishery in the gulf will soon improve. The large mackerel which constitute the first run of these fish into the gulf never touch the United States shores, either coming or going, and they first make the land along the coast of Nova Scotia, passing into the gulf round Cape North, in a ripe condition, about the end The Gulf of St. Lawrence mackerel fishery has steadily failed since the introduction of this spring purse seine fishery off the Nova Scotia coast. Previous to this we had of course bad seasons, but never such a decided and continuous failure as we are now suffering from. The Southern spring mackerel fishery, made in March and April, is one the evil of which does not so seriously affect us, though it does to some extent as the second and third runs of mackerel along our coast are fish which come up along the United States shores, and are the remnant that have escaped. These are also spawning

fish. But the first run of extra large fish, those that are taken in the purse-seine in May, along the coast of Nova Scotia, are distinctly our own—they can be traced from the northern edge of the Gulf Stream over and outside of the Georges, and they first make the land between Cape Sable and the Gut of Canso, thence following closely along shore round Cape North into the gulf. These mackerel are the first to enter the gulf in the spring and the last to leave in the fall, leaving the shores of Nova Scotia, between Halifax and Cape Sable, during November or the early days of December, and passing south by way of the Georges to their supposed wintering grounds along the northern edge of the Gulf Stream. I think we have as much right to insist that these fish be not wastefully destroyed on the way to their spawning grounds in our waters, as our neighbours have to complain about the injury done to their interests by the practice of pelagic seal hunting. In the case of the mackerel they are equally interested with ourselves in the matter, the bulk of the mackerel fishing in the gulf will be done by their own fishermen, and on some of our best grounds, as at the Magdalen Islands, they enjoy the same inshore fishing rights that we do ourselves. I believe that a majority of the United States mackerel fishermen are quite in sympathy with our own men in this matter.

LOBSTERS.

The lobster pack shows a slight increase, 30,856 pounds. This is not due to any improvement whatever in the fishery, but to the fact that 85,775 more traps were fished in the Gulf division. In 1894, 1,168,998 pounds of lobsters were packed in ninety six canneries fishing with 76,775 lobster traps, employing altogether 1.360 hands. In 1898 the pack amounted to 1,067,058 pounds; to put this up it required 154 canneries, 162,470 traps, and 2,769 hands. Many of these new canneries are small affairs. They are run by men who having learned the art of soldering, at once begin to pack on their own account. As a rule the meat put up in such canneries is not up to the standard. The lobster close season is everywhere absolutely observed in the Gulf division, save at the Grand Entry Lagoon, where considerable illegal packing has been done in the past; this season, thanks to the employment of an active local guardian, but very little ill-gal packing was done.

In connection with the decrease in the total earnings of the fisheries in the gulf it is well to note that the returns from the Island of Anticosti have greatly fallen off since the purchase of the island by Mr. Menier. Previous to this the island was really looked upon as common property, and hosts of fishermen from all parts of the gulf, used to land on the island, especially along the north side, and prosecute the cod and herring fishery during the summer and fall. These men lived on shore in rough build-They cut all the firewood they required on the spot, and did considerable fur hunting, which was mostly done out of season. None of these resided permanently on the island. Now, however, all this has changed. M. Menier will, very naturally, not permit non-residents to carry on fishing from the island; any one complying with M. Menier's regulations may obtain a location, if he becomes a permanent resident, and can then fish if he so pleases. At English Bay and Strawberry Cove where the fishermen have always been residents, and where no changes have taken place under the new ownership, very little fishing is now done, as all hands have found more profitable employment on shore. At English Bay, now rechristened Baie Ste. Claire, where a few years ago only a few rough and straugling cottages were found along the beach, we now find quite a town, built around a large public square, roads have been made, land drained, large farms established with modern equipment and outbuildings, a system of waterworks, hotel, church, shops of all descriptions, a school-house which would serve as a model to many of our towns, and an hospital with a resident surgeon who is also a naturalist. This hospital is fitted with all the modern appliances for antiseptic surgical work, hot and cold baths, and is divided and subdivided so as to furnish wards for all classes and conditions of patients. There is also constantly at work an extensive steam saw-mill fitted with planing, grooving and tonguing machines, and a turning-lathe, from which all the lumber required in the many extensive works now going on is supplied. The logs are cut within sight of the mill. Elaborate

private residences finished in the natural woods, have been built for the governor, surgeon, clergymen and other chief officers. An extensive forge, to which is adjoined machine, paint, plumbing and tinsmith shops, was in course of construction at the time of my visit. All these buildings and many more, such as shops and storehouses, have been built to correspond, and are finished and painted in harmony with the general A good carriage road has been constructed to Ellis Bay, some ten miles away on the southern shore of the island, where is the grave of the reputed pirate of the gulf-Gamache—who was buried on his feet so as to get the start of some of us at the last call. Here at Ellis Bay M. Menier intends to erect a chateau for himself; the stone is now being quarried at various parts of the island. He has also under construction here an immense breakwater, inside of which shelter can be had for a large number of deep draught vessels. Ellis Bay already affords good shelter from any weather, but with a southerly sea outside a heavy swell rolls in, vessels ride safely and without any strain, but with the discomfort of a heavy roll. This will be done away with when the breakwater, several hundred feet of which has already been built, is completely finished. is M. Menier's intention to begin work at several other points on the island, notably at Fox Bay, where there is already a fair harbour for small vessels, as soon as the present dispute about the rights of squatters is settled definitely. All these extensive building operations, making of roads, lumbering, &c., have been carried out and performed by local labour, either directly from the island or by men imported from Quebec and the neighbouring parishes, and all the material and supplies required for these many extensive works, and for the maintenance of the residents and men employed have been either furnished directly from the island or imported from Quebec and brought to the island in M. Menier's steamer the Savoy a vessel of British register, which has been running steadily for several years between the island and Quebec. This steamer being much of the time at the island, and thus being on the spot, has already been of material assistance in several cases of wreck. All the labour employed, whether skilled or ordinary, is Canadian, only four or five of the heads, men in the confidence of M. Menier, being Frenchmen from old France and several of these are in a fair way of becoming naturalized as they are taking to themselves Canadian wives. Thus we see that though the fishing returns of the island have fallen off, the amount of capital and labour employed in developing its other resources have been greatly increased.

I beg to append synopses of the reports of most of the local overseers showing in

detail the condition of the fisheries in each of their subdivisions.

SYNOPSES OF THE REPORTS OF THE LOCAL FISHERY OFFICERS.

Restigouche Subdivision extending from Tide Head to the Point of Maguasha. Mr Charles Brown reports an average salmon catch. The total yield was not up to that of last season, but this is more than accounted for by the fact that three of the upper stations having been leased to the Restigouche Salmon Club were not fished. Salmon ran in early in May, before many of the nets were set. The main river and its tributaries are all well stocked with breeding fish.

The smelt fishery was a good one, the yield amounting to 266,642 pounds, being a considerable increase over catch of the last season. This fishery is being prosecuted with increased vigour each year. So far there are no signs of any diminution in the runs of the fish. There are no fishways in the subdivision, and none are needed.

Carleton Subdivision, extending from Maguasha to the Grand Cascapedia River. Mr. James Green reports that the salmon fishing was below the average. He attributes this to the stormy weather in June by which many of the nets were washed ashore during the best of the run. Spring herring were abundant, and the catch of fat fall herring was considerably above an average. Cod were plenty, and all those who engaged in this fishery did well. There is at present only one small lob-ter cannery in operation in this subdivision, engaging a couple of hands. There made fair fishing at the start, but the lobsters gave out early.

Bonaventure Subdivision extending from the Grand Cascapedia River to Paspebiac. Overseer George Forest reports a considerable increase in the general yield of

the fishing in his district. The number of salmon net stations was increased by the licensing of two new berths. Spring herring were very abundant, but fall herring were scarce. Cod were very plenty, and owing to the fine weather in the fall fishermen were able to continue fishing late into November. The returns show a slight increase in the lobster pack, but this was due to the establishment of an extra cannery and not to any increase or improvement in the lobstery fishery, which continues steadily to fail.

Port Daniel Subdivision extending from Paspebiac to Point Macquereau. Overseer F. X. Chapados reports a slight falling off in the catch of salmon, but an increase in the lobster pack. This latter was entirely due to the use of a larger number of traps. Summer codfishing was poor, but in October and November the fish struck in abun-

dantly, and the fishermen did well. Herring were not as abundant as usual.

Grand River Subdivision, extending from Point Macquereau to the Barachois of Mal Bay. Overseer John Keays reports an increase in the salmon catch of about one-fourth more than last season. The codfishery was not quite up to that of 1897. This was due to a scarcity of bait, herring and squid not being at all constant. The smelt fishery opened well in October, but fell off greatly in November so that the catch is not

up to the average. The returns show a slight increase in the lobster pack.

Gaspé Subdivision, extending from the Barachois of Mal Bay to Cape Rosier. Overseer Walter Langlois reports an increase of 46,810 pounds in the yield of the salmon net fishery as compared with 1897. Herring were abundant. Cod fishing began on the 22nd May, and continued fair up to the 15th August, between this date and the early part of September the fishing was slack, towards the middle of September the fishery improved and continued good until the 16th October, when a heavy north-east gale struck the coast, after this very few fish were taken. During this gale twenty fishing boats and ten flats were totally lost at Point St. Peters. Mr. Langlois was requested by the fishermen of Point St. Peters to call attention to the nece-sity for a breakwater at this place for the protection of fishing boats. This is a large fishing station, and it is not the first time that serious loss has occurred here by the destruction of boats on the moorings. The lobster catch shows an increase of 13,470 pounds; this is altogether due to the op-ning of four new canneries, otherwise the pack would be below the average. The smelt fishery shows a slight falling off; this was due to the prevalence of strong northerly winds during the open season. These winds kept the smelt off the usual seining grounds.

Fox River Subdivision, Cape Rosier to Fame Point. Overseer Moïse Aspireau reports that the cod fishery was fairly good through what is known on the coast as the summer fishing, that is from the opening of the season up to the 15th August; during the fall, however, the fishery failed. Herring were abundant in summer and spring, but scarce in the fall. The lobster pack shows a falling off of nearly two-thirds though the number of traps fished was in excess of last season. Capelin were scarce, these fish have

now almost disappeared from this part of the coast.

Mont Louis Subdivision, Fame Point to Marsouis. Overseer Louis Letourneau reports that the return from the lobster fishery was small, one of the two canneries operating in the subdivision had to close down early in June owing to scarcity of fish. The salmon fishing was a good one and the prices obtained by the fishermen were higher than usual. Herring were abundant in the western part of the district, but scarce in the eastern end. Cod struck in May, and the fishery began well, but it slacked off as the season advanced, and on the whole was below the average. Salmon fly fishing was good in the Magdalen, and now that the Mont Louis River is being protected, salmon are rapidly increasing in it.

St. Anne's Subdivision, Marsouis to Cape Chatte. Overseer Didace Bouchard reports the salmon net fishery as having been good. Salmon were abundant in the St. Anne's River, over four hundred having been taken with the fly. The cod fishery was also a success, it lasted late into the fall, fish having been taken up to November 25. Herring were abundant, but as usual these last years they were frequently driven off by the white whales. Mackerel and capelin seem to have completely disappeared from this part of

the coast.

Godbout Subdivision, Manicouagan to Jambons. Overseer N. A. Comeau reports an increase in the catch of salmon of over ten thousand pounds; the fly fishing was also

good. The return from the cod fishery was considerably below the average. The herring fishery gives a return of over 900 barrels, which for this subdivision is considerably above an average. The winter and spring seal hunt was not quite as profitable as that of 1897. One small lobster cannery was operated at Cawees; here the pack was slightly better than for either of the two preceding years.

Moisie Subdivision, Jambons to Pigou. Overseer Théotime Migneault reports that the first salmon was taken in the Moisie nets on May 17, the fishing continued good up to the end of June, the nets were taken up on the 8th July. One hundred and ninety-nine salmon, weighing 3,980 pounds, were taken by five rods during a short season on the river. The return from the codfi-hery is considerably below the usual yield, fewer boats and vessels were engaged in the fishery and stormy weather in August kept the boats in harbour during fully half the time. Mackerel missed entirely. The spring herring fishery was good, but in the fall this fi-hing failed.

Mingan Subdivision, Pigou to Watsheeshoo. Overseer George DuBerger reports an increase of 2,460 cwt. in the returns from the codfishing, the increase was entirely at the western end of the district, at Esquimaux Point in the eastern end the catch was poor. The salmon net fishing was good, upwards of 40,000 pounds having been taken in the estuary of the St. John's River; this was considerably more than an average catch. The spring seal hunt on the ice in April was better than in 1897, but this fishery is being gradually abandoned as the vessels which formerly engaged in it are lost, or become no longer seaworthy, they are not replaced. Bait was not so abundant as usual, and a great deal of time was lost during the season owing to the difficulty of procuring the bait which is absolutely necessary to the cod fisherman.

Natashquan Subdivision, Watsheeshoo to English Point. Overseer John W. Scott reports the seal fishery as showing a small increase over that of 1897. The salmon net fishing was not as good as usual. The codfishing shows a falling off of 65 per cent, due entirely to the fact that the capelin did not strike inshore shore in June and July as usual. The herring missed entirely, not one barrel being taken, whereas in 1897, the catch amounted to 700 barrels. The lobster pack shows a small increase owing to the fact that several new canneries were in operation.

MAGDALEN ISLANDS.

Southern subdivision—Entry, Amherst and Grindstone Islands.

Overseer J. A. Chevrier reports: That the spring seal fishery was a complete failure; owing to the low price of oil this industry is being gradually abandoned. Spring herring struck in Pleasant Bay in great abundance, and as the weather was fine, and a large fleet of vessels from the Maritime Provinces and the United States visited the islands in search of bait the local fishermen did well. Spring mackerel were abundant and the catch was better than in 1897, but there is no doubt that the local fishermen would have done much better had it not been for the immense number of gills set from foreign and other fishing schooners off the mouth of the bay. These nets completely block the entrance of the bay. The practice of dressing the fish, taken in these nets, on the fishing ground must also be detrimental. Mr. Chevrier advises that a cutter be stationed at the Magdalen Islands from the beginning of the herring fishery until the close of the spring mackerel fishing to prevent all this. Cod fishing was good, but it is not now very generally engaged in at the islands. The fat or fall mackerel fishery was good. This was due largely to the fact that during the season of this fishery the weather was fine.

The lobster fishery, which is one of the principal industries of the islands shows a decrease, and this in spite of the fact that many new canneries are being established. No illegal lobster fishing took place in the southern division of the islands.

Northern subdivision—Allright Half, Bryon and Grosse Islands.

Overseer Procul Chevrier reports: The spring seal hunt a failure at all the islands, except Bryon, where the ice having been jammed on shore, a fairly good hunt was made

by fishermen from the shore. Spring herring were abundant at all the islands and during the spawning season which lasts for a couple of weeks in May, there was no end to the quantity that could have been taken. Spring mackerel were plentiful but not many were taken in this subdivision. Cod were also abundant, but very few men engaged in this fishery. The fall mackerel catch was good, fish were plentiful and the weather was fine. The lobster pack continues to show a falling off in spite of the fact that more traps are being fished each season.

The whole humbly submitted.

W. WAKEHAM, Officer in charge of the Gulf Division Fisheries.

SYNOPSIS OF FISHERY OFFICERS REPORTS IN THE INLAND DISTRICTS OF QUEBEC—(EXCLUSIVE OF GULF DIVISION.)

SOUTH SHORE, RIVER ST. LAWRENCE, FROM CAPE CHAT TO POINT LÉVIS.

Overseer F. Marin, of Ste. Felicité, reports a considerable increase in the general value of the fisheries of his district, chiefly noticed at Capucins, Ste. Félicité and Sandy Bay. Of recent years, cod has been quite plentiful off the coast of Rimouski county as far up as Rivière Blanche. This season's catch was even better than the previous one, but towards the end of the summer the belugas (white whales) seemed to scare them away. Herring was very plentiful and good catches were reported along the coast, especially at Sandy Bay, where the want of curing implements alone prevented a larger supply being secured. Although salmon seemed as plentiful as ever in Matane River, they did not take the fly and the anglers captured but few. The other fisheries produced an average result. He has no direct violations of the fishery regulations to report. The fish at this district is mostly used in the county, but some shipments were made to the Saguenay districts and elsewhere. The value of the total yield is given at over \$34,000, an increase of 50 per cent over the previous one.

Overseer Zephirin Lavoie, who has charge of the upper end of Rimouski county, states that the yield of the fisheries in general is constantly declining and that shad and mackerel are a thing of the past. The regulations were fairly observed. The staple fish of this district is evidently herring, of which nearly over 800 barrels are reported salted, besides four million pounds fresh, not including the 800 barrels of sardine herring. The

total value of catch is estimated at \$46,000.

Overseer Alphée Côté, who had charge of the county of Temiscouata, after having visited his whole division, reports that fish are generally becoming scarcer and scarcer. In the spring a large quantity of herring is caught as well as some coarse and mixed fish which is hardly used for anything but for fertilizing purposes. Salt herring and most all other fish caught here are used in Canada, excepting sardines, which are exported to United States. Quite an industry is carried on by fishing for smelts through the ice with hooks, especially on Isle Verte River. This is about the only kind of fish which does not show signs of depletion. At Cacouna a fisherman caught \$30 worth of seals in his fishery. He observed how voracious these animals were, attacking and destroying other fishes—even salmon were killed by them. He could only secure the small ones as Next season he has a scheme the large ones would break through his fishery and escape. by which he hopes to capture all that will enter his fishery. He also visited Lake Temiscouata which is within his district. Where formerly 400 barrels of whitefish were caught, only fourteen are reported this year. This falling off is ascribed to the high dam built about ten years ago on the Madawaska River, the outlet of Lake Temiscouata, at Edmundston, N.B. Since the construction of the said dam, old fishermen have noticed a steady decline of the fish supply as it is still unprovided with a fish-pass. He also noticed considerable sawdust in that stream, sufficiently to injure fish life. He was

informed of illegal netting in these inland lakes, but was neither able to catch any in the act of fishing nor secure evidence leading to a conviction. Reliable local guardians should be located at or in the vicinity of Temiscouata Lake to check this alleged poaching.

The whole value of the fisheries is made up at \$28,000, a decrease of over 25 per

cent as compared with last years's product.

Overseer George Sirois, who had charge of Kamouraska county, also reports a general diminution in the fisheries of his locality, which he attributes to the scarcity of fish. This was particularly noticeable and regrettable in the case of the sardine cannery at St. André, which was compelled to cease operations, owing to the want of the fish supply. The different fishery regulations are reported well observed.

Overseer Ephrem Gagnon, whose division extends to Point Levis, states that he visited all his fishermen and endeavoured to secure a correct statement of the true yield of the 155 fisheries under his charge. Of these, 40 were pêche anglaise or wire netting pound, under license, but the remainder were eel weirs, and paid no fees. Eels, which are the staple fish of this division, (over 375,000 pounds being caught) were as plentiful as last year, but the yield might have been larger had the weirs not been destroyed and brought ashore by a terrific gale in the fall. Fishermen then thought it was too late to reset them again. Very few salmon are now seen in this district, hardly 500 pounds being returned as the whole season's catch. Smelts were also very scarce. The whole yield, valued at about \$27,000, is used for local consumption and for the Quebec market. The fishery regulations were well observed. A single infraction of illegal netting without license came to his notice, the net was confiscated and sold. There were a few complaints respecting the throwing of sawdust in the streams of his district.

NORTH SHORE, RIVER ST. LAWRENCE FROM QUEBEC TO BERSIMIS.

Overseer Joseph Pouliot, who has charge of the county of Montmorency including the Island of Orleans, states that the fisheries in that locality are gradually declining. The salmon and shad fisheries were complete failures, only 300 pounds of each being reported, while a few years ago it was no rare occurrence to see a single fishery capture five and six hundred shad in one tide. Pickerel, whitefish and barfish are also disappearing, and their catch is annually lessened. Eels are about the only kind still yielding an average catch. Mr. Pouliot visited all the fisheries of his district (over 100). Some of them are built with brushes, laths or wire netting, while others are partly brush and partly wire. Some were paying licenses and others were not. As salmon are no more taken in paying quantities, these pêches are set later in the season, mostly for eels during the fall. The total yield of this division is valued at \$10,500, a falling off of one-third from last year's catch.

Overseer U. Bhereur, of Charlevoix county, also reports a falling off in the yield of their fisheries. A considerable quantity of speckled trout is caught in the lakes of that county. Six belugas or white whales were captured yielding over 300 gallons of oil.

Overseer L. N. Catellier, of Tadoussac, reports the catch of salmon in his district to exceed 100,000 pounds, mostly caught by the net fishermen, as anglers fared badly this season. The salmon arrived nearly three weeks earlier than usual, the water being high, the fish had reached the upper waters before the arrival of the sportsmen. The net fisherman holding license for his station considers it as a part of his estate and is a careful observer of the regulations. All the salmon caught by the netters in this division is shipped to Montreal and Quebec, while the produce of the brush weirs is more used for domestic or local consumption. There was not so much illegal fishing in the Saguenay River as during the previous year, but there was some still. Mr. Catellier reports the capture of nearly 200 belugas (white wheles); the total value of which catch is given at \$31,000, an increase of 80 per cent over hat of 1897.

INLAND DISTRICTS.

Megantic and Sherbrooke divisions.

Overseer Allan McLeod, who had charge of Lake Megantic district, reports a very prosperous fishing season. Fish are still as plentiful there as ten years ago. These waters, being admirably situated and of easy access, draw a large number of tourists and sportsmen from the vicinity as well as from the neighbouring Republic. These strangers are of considerable benefit to the settlers, whom they employ as guides and helps in their fishing and hunting trips, besides supplying the former with food. Mr. McLeod is of opinion that the close time for lunge, the principal fish of Lake Megantic, should commence earlier, as by September 20th they are congregating on their spawning beds and it is too bad to disturb them after that date. Lake Megantic shores are now mostly inhabited, thus rendering poaching an easy matter but difficult of detection, as settlers will not inform on one another. He visited the dams on the different streams in the vicinity of this large lake. Several new mills were erected during the season. He seized thirteen gill-nets and destroyed them, but was unable to prosecute the owners for want of direct evidence.

Overseer John McCaw, who had charge of the Sherbrooke district, reports less poaching and illegal fishing than during the previous years. He complains that inadequate protection is given to the beautiful waters of the Eastern Townships now so attractive to sportsmen.

Magog and Brome.

Overseer Hugill Ball, who has charge of the western side of Lake Memphremagog, states that more lunge were caught than during the previous season, although the yield was not up to that of former years. Fish were abundant on the spawning beds, appearing there as early as October 10. With the assistance of a reliable guardian, the close seasons were strictly maintained. One boat was confiscated and two oftenders fined.

Overseer C. G. Boyenton, who has charge of the other side of Lake Memphemagog, reports considerable illegal fishing with nets during the open season, but he did his best to check it with the little assistance he had at his disposal. He is of opinion that net or seine fishing might be allowed for whitefish in some parts of the lake and at certain times of the year. As these whitefish do not take the hook, it might prove beneficial to grant such permission to the settlers who otherwise might become poachers, and the fishery laws might therefore be better respected. Such privileges are granted to United States citizens at the southern end of this lake, which is Vermont State, where whitefish seem more plentiful than lunge.

Missisquoi Bay.

Overseer P. E. Luke, who has charge of Missisquoi Bay, states that the large catch of pickerel would have been even larger had not the ice moved so early in the spring. For some unknown reason whitefish did not put in an appearance as usual, thus rendering fall fishing very unprofitable. The whole catch is shipped to New York and Boston. The close seasons are reported well observed. This officer seized a schooner for illegal fishing in June, and in the fall he confiscated a gill-net on the east side of the bay.

Richelieu River.

Pierre Levesque, who has charge of the upper part of Richelieu River, states that the general yields of fish has considerably fallen off owing to the restrictive measures recently adopted limiting and curtailing the fishing implements. For instance, only forty-six hoop-nets were used against 130 during the previous season. Eels are the staple fish of this district and large quantities were taken. Mr. Huot, owner of the two large eel fisheries in this stream, captured 65,000 pounds alone. Should these restrictions be continued in force angling would soon improve, and the majority of the people would welcome any such beneficial changes. The fact that he seized thirty-one hoops-nets and four seines is adequate proof that considerable illegal fishing was attempted, but these seizures

with the five fines imposed had a salutary effect. Fortunately the waters of the Richelieu remained high in the spring, thus allowing the fish facility to ascend the small tributaries for the purpose of spawning. Nearly five-sixths of the catch is exported to the United States.

Overseer J. O. Dion, of Chambly, reports an increased yield of the fisheries below the Chambly dam on the Richelieu River. This result he ascribes to the very dam itself, as the fish cannot now ascend above it. The big eel fishery in the vicinity of Chambly canton was a complete failure and the licensee did not realize sufficiently to pay the fee; however, the small eel fisheries captured as many as usual.

Coarse fish, especially carp, comprises the largest part of the catch; however, he reports 7,000 lbs. of bass and pickerel. Some of the licensed fishermen of the Sorel district came down the river as far as St. Ours; infringing on his limits. He hopes it will not be repeated another season. Having heard that spearing was practised in some parts of his district, Mr. Dion went and had this illegal practice stopped. He notified all interested parties that no seining would be allowed next spring. The total value of the fisheries of both the above divisions only amounts to \$7,300.

Beauharnois and Chateauguay Divisions.

Overseer W. H. Dewitt reports an increased catch of bass, pickerel, perch and eels but a falling off in that of sturgeon. About 85 per cent of the yield is shipped to Montreal markets and the remainder used in the locality. He would approve of restricting the use of seines in that part of Lake St. Louis. The close seasons were well observed. Millowners also complied with the regulations. Carp are getting so plentiful that it is recommended seining should be allowed in the small streams, where they no doubt ascend to spawn.

Overseer J. D. McMillan, who has charge of the south side of Lake St. Francis, also reports an improvement in pickerel, maskinongé and perch and a shortage in sturgeon. The former is ascribed to the prohibition of seines and hoop nets in those waters, and the latter to the high winds in the autumn when sturgeon lines were set. The existing fishways are in good order but where most needed there are none, especially at Dewitt-ville. Millowners do not now allow their sawdust to drift in the streams. The proximity of these waters to the United States make them quite a summer resort and a great many tourists visit them every season.

Montreal Division.

Overseer John Morris states that the catch of fish was fair in the early part of the season but that it did not last long. The quality of the soft fish was not up to the average. The different regulations were fairly well observed; very few infringements came to his notice. The total value of the yield does not reach \$4,000.

Verchères Division.

Overseer Chas. Robitaille reports a surplus over the preceding catch. There was considerable poaching in the vicinity of Contrecœur Islands and at Bout-de-l'Ile; at each visit there, he always seized and destroyed several hoop-nets and gill-nets, but he does not seem to have detected their owners. He did his best to prevent the capture of small or young fish. Seining should not be permitted between June 15 to September 1, according to this officer, as it is difficult during the hot weather to preserve fish, especially soft fish, in good condition. This step would prove beneficial to every one concerned, the fishermen as well as the consumer.

Nicolet Division.

Overseer Geo. Boisvert states that most of the fishermen seek to underestimate their catch, thinking thereby to secure the abolition of the license system, but by taking notes at different times, it enables him to obtain a fair estimate of the yield. He noticed that not only were fish actively sought after, but that they seemed of a larger size, especially sturgeon and shad. Most of the catch is shipped to Montreal, Sherbrooke and Three Rivers. He watched closely during the prohibited times but detected no poaching. There is a saw-mill at Becancour which should be provided with a fish-ladder, as it completely bars this stream. In fact, there are no fishways at all in his division. He

recommends the special marking of all licensed implements, to facilitate the detection of illegal ones by the officers. The principal abuse complained of is the use of small mesh seines in isolated spots destroying immatured fish. The total catch is valued at over \$6,000.

Maskinongé and Berthier Divisions.

Overseer Gabriel Caron reports a larger catch than the preceding one, but the fish were of a smaller size. This increase is openly ascribed to excessive and illegal fishing. The fact that this overseer detroyed 162 unlicensed hoop-nets is evident proof of the amount of poaching carried on in this part of Lake St. Pierre. Some fishermen take license for one or two verveux and use from six to ten.

He also urges that all licensed implements be distinctly so marked. The undersized fish is not shipped to Montreal, where the markets are closely supervised by Officer Riendeau, but they are sent to neighbouring markets towards Quebec. He ends his report by saying that he considers seining the most destructive of all modes of fishing, as the seines when drawn in small bays, where fish have deposited their eggs, must disturb and destroy them.

Ottawa River Division.

Overseer Dosithé Chenier, of Hull, states that although the number of licensed fishermen was less than in 1897, still the season's yield surpasses the previous one. This is particularly noticed in Lake Deschenes where large quantities of pickerel, sturgeon and catfish were captured. The fish of that lake are of a larger size and their abundance is ascribed to the protection it has received and to the absence of sawdust and rubbish from its clear waters, contrasting with the nuisance experienced in the lower Ottawa where fishermen spend half their time in cleaning their nets by removing the accumulated rubbish. The Buckingham Mills also throw every débris in the water, and every time he passed the Lièvre River he noticed it full of mill refuse as well as the neighbouring bay where it is allowed to accumulate to the detriment and against the protestations of the regular fishermen who are loudly complaining. Considerable illegal fishing was done in the spring by unlicensed fishermen when the water was high. These poachers sell their catch in small villages, fearing detection if they come to town.

St. Lawrence River.

Overseer Joseph Riendeau, of Montreal, supervises that part of the St. Lawrence River extending from Lake St. François to Lake St. Pierre. He says it is almost impossible to even make an approximate of the quantity of fish caught as so much of the yield is disposed of in the interior of the province and not accounted for by the overseer. In his frequent visits to the different fishing districts he seeks not only the protection of the fisheries, but also that of the fishermen themselves. In many instances, well-to-do farmers and even merchants succeed in obtaining licenses, to compete with the poor fisherman whose only means of a livelihood is fishing. Sometimes these rich applicants do not even pay fees. The overseer of a district should be able to discriminate who are the deserving and real fishermen to whom this calling is of material benefit, and to those alone should licenses be granted. He finds that the respective districts under the charge of one overseer are generally too large for one person to protect alone unless his whole time was devoted to it, otherwise there is always more or less poaching carried on. one of his visits to Isle Perrot he caught and arrested four individuals seining without Thinking a sufficient lesson had been given, they were subsequently released as they were too poor to pay fines. The most illegalities are perpetrated in Lake St. Peter and within a few weeks he seized and destroyed no less than 300 hoop-nets with small meshes or long wings, and then he believes there were over one thousand hoop-nets then These wings are very injurious for small fish and should be profishing in the lake. hibited, or at least limited. Mr. Riendeau is of opinion that the tar applied to these verveux is very harmful, as he claims that fish caught in such nets are partly poisoned and soon become unfit for food although placed on our best markets.

Mr. Riendeau remarks that game fish are openly sold on the Quebec City markets during their close season without apparent hindrance. Some one should be deputed to supervise the markets of such a city under the very shade of the Provincial buildings.

PROVINCE OF QUEBEC-Gulf of St. Lawrence District.

RETURN Showing the Number, Tounage and Value of Vessels and Boats, and the Quantity and Value of all Fishing Materials and other Fixtures used in the Fishing Industry in the County of Bonaventure, Province of Quebec, for the Year 1898. RESTIGOUCHE SUBDIVISION (Tide Head on the Restigouche to Maguasha).

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RETURN showing the Quantity and Value of Fish, &c. --County of Bonaventure-Continued. RESTIGOUCHE SUBDIVISION (Tide Head on the Restigouche to Maguasha).

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RETURN showing the Number and Value of Vessels, Boats and Fishing Materials, &c.—County of Bonaventure—Continued.

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| BDIVISION (Pas |
| DIVISIO |
| SUBDIVISIO |
| I SUBDIVISIO |
| VIEL SUBDIVISION |
| I SUBDIVISIO |
| VIEL SUBDIVISION |
| T DANIEL SUBDIVISION |
| DANIEL SUBDIVISION |

| | | Number. | | ⊣ 8185 4 70 | | |
|---------------------------|------------|--------------------|-------------------------------|------------------------------------------------------------------------------|--------|-------------|
| | d, bris. | Mackerel, salted | | <u> </u> | : | C. |
| ISH. | sdl ,b | Herring, smoke | | 1000 | 1000 | 54000 |
| Kinds of Fish. | .edl | Herring, fresh, | | | | 52500 |
| Kinds | brla. | Herring, salted, | **** | 250 250 250 250 250 | 1790 | 5550 |
| | 'sq | I ,fresh, fresh, I | | 3000 2200 23594 6518 | 35312 | 1183 152686 |
| | lines. | Value. | 66 | 22 9 7 8 22 9 9 7 8 22 9 9 7 8 | 182 | 11831 |
| | Hand Lines | Number. | | 021130 084 232 232 232 232 | 1322 | 2712 |
| 83 | | Value. | 99 | 200 450 950 | 2000 | 2630 |
| FERIA | Trawls. | Number. | | 88 :88 | 215 | 341 |
| Fishing Gear or Materials | | Value. | 6 € | 132 144 368 384 | 1220 | 4210 |
| FEAR O | Seines. | Fathoms. | | 242 042 065 064 064 064 | 1525 | 5895 |
| ING (| 02 | Number. | - | 818007 | 3 | 212 |
| Fish | | Value. | 80 | 776 1105 1380 3950 3870 | 11081 | 35731 |
| | Gill Nets. | Esthoms. | | 780 1150 1450 3400 3900 | 10680 | 56450 |
| | Gil | Number. | | 288888 | 565 | 2640 |
| Ts. | | Меп. | | 63 119 80 240 216 | 718 | 2485 |
| Fishing Boats. | | ,enlae, | 69 | 1500 1250 1280 4980 4500 | 13510 | 27625 |
| Fishi | | ·Number. | | 8 4 E 8 4 | 442 | 1487 |
| | Dismatris | | Bonaventure County—Concluded. | 1 Paspebiac 2 Nouvelle 3 Shegawake 4 Port Daniel 5 Anse & Gascon | Totals | Grand total |

SESSIONAL PAPER No. 11a RETURN showing the Number and Value of Vessels, Boats and Fishing Materials, &c.—County of Bonaventure—Continued.

| reau). |
|--------------|
| Mague |
| to Point |
| Point |
| aspebiac |
| SION (F |
| Z |
| BDI |
| IEL SUBDI |
| DANIEL SUBDI |
| DANIEL SUBDI |

| | Number. | 1638470 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-----------------------------------------------------------------------------------------------|
| | Toral Value of All Fish. | cts. 9,592 80 3,997 60 6,425 10 22,548 80 22,548 80 68,731 60 |
| | Seal skins, No. | |
| To the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se | Fish as manure, brls. | 300 300 300 450 500 1830 38830 |
| | Fish as bait, bris. | 200 150 200 750 850 850 4178 |
| | Fish oil, galls. | 450 350 350 525 1670 2800 5795 |
| | Coarse and mixed fish, brls, | : : : : : 8 |
| | Squid, bris. | 35 85 800 B 35 35 35 35 35 35 35 35 35 35 35 35 35 |
| | Tom cod or frost fish, | 21800 |
| ISH. | Flounders, lbs. | 306570 |
| F F | Eels, bris. | ::::::::::::::::::::::::::::::::::::: |
| KINDS OF FISH. | Smelts, lbs. | 14000 |
| | Trout, lbs. | 12 10 40 60 122 122 122 14000 122 14000 122 122 14000 |
| | Hake, dried, cwt. | |
| | Haddock, dried, cwt. | 150 150 160 160 160 160 160 160 |
| | Haddock, fresh, lbs. | 12000 |
| | Cod tongues and sounds, bris. | 125 100 8.8 8.1 4.5 |
| | Cod, dried, cwt. | 600 480 670 3400 7550 |
| | Lobatera, freah in ahell, cwt. | 116 |
| | Lobsters, preserved in cans, lbs. | 24864 9468 30888 4176 69336 |
| | Districts. | Bonaventure County. 1 Paspebiac 2 Nouvelle. 3 Shegawake 4 Port Daniel 5 Anse à Gascon Totals. |
| 11 | Number. | H0640 |

RETURN showing the Number and Value of Vessels, Boats and

CountyGRAND RIVER SUBDIVISION

| == | | | | | | | = | | | | | | .== . | 77 7 |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-----------------------------------------------------|-------------------------------------------|------------------------------------------|------------------------------------------------------|------------------------------------------------------|------------------|--------------------------|------------------------------|---------|-------------|--------------------------------------------|--------------------------------------------------------------------------------------------|
| | | | 'ishing Boats. | | | Fı | SHING | Gi | EAR O | R M | ATER | IALS. | | |
| | Districts. | | Boats. | | G | ill Net | ts. | | Seine | es. | Tra | wls. | Ha Lin | |
| Number. | | Number. | Value. | Men. | Number. | Fathoms. | Value. | Number. | Fathoms. | Value. | Number. | Value. | Number. | Value. |
| | Gaspé County. | | ŝ | | ! | | \$ | | | 8 | | \$ | | 8 |
| 4 5 6 | Newport Pabos Grand River. Cape Cove. Percé Bonaventure Island Corner of Beach | 130 52 154 179 98 33 28 | 3800 910 6500 5000 4500 1000 1100 | 112 390 426 196 60 | 91 390 366 210 70 | 4"50 1390 8945 7490 4560 2560 2890 | 1950 758 3600 2610 1840 650 1160 | 4 4 8 3 | 110 150 230 120 | 200 90 60 135 75 | 130 | 180 1450 | 261 | 370 2840 1050 120 |
| | Totals | 664 | 22810 | 1524 | $\frac{-}{1452}$ | 32485 | 12568 | 35 | 1055 | 740 | 360 | 4020 | 4870 | 5214 |
| _ | | | | | | | | | G.A | ASPI | ź su | BDI | VIS | ICN |
| 4 5 6 7 | Malbaie Point St. Peter and Chien Blanc Seal Cove and Douglastown Sandy Beach. Gaspé North and South Peninsula Cape Ozo and Little Gaspé. Grand Grêve and Ship Head and | 213 138 168 28 43 18 57 | 8650 3460 49.00 675 475 350 700 | 243 176 204 35 48 29 65 | 86 112 83 70 100 65 70 | 2900 36 0 2750 2000 3500 1960 2094 | 2200 2569 1770 2000 2650 1650 1720 | 7 8 24 | 187 240 | 225 128 960 | | | 500 352 408 70 50 60 130 | 176 204 35 25 30 |
| | Cape Rosiers | 140 805 | 3000 | 160 966 | 667 | $\frac{2920}{21724}$ | | | 240 2151 | | | <u> </u> | 332 1902 | 166 951 |
| - | TOWNS | | | | 001 | | | - | | | | IBD | IVIS | |
| | | | | | | | | · 0. | A. Al | | | DU | | |
| 5 | Anse à Louise, and Jersey Cove Anse à Grisfonds | 50 12 5 | 400 | 30 | 100 250 | 5000 1000 | $500 \\ 1250 \\ 250$ | d И И | | | ١., | | 200 260 500 100 60 268 | $ \begin{array}{r} 320 \\ 1000 \\ 200 \\ 120 \end{array} $ |
| | Totals | 410 | 3169 | 798 | 1518 | 15420 | 3990 | | | Ī | | | 1388 | 2568 |

Fishing Materials, &c.-Province of Quebec-Continued.

of Gaspé.

(Point Maquereau to Corner of Beach).

| i | | | | | , | KIND | s or | Fisi | ı. | | | | | | | |
|------------------------------|-------------------------------------------|----------------------|---------------------------------------------------|--------------------------------|-------------------------------------------------------|----------------------------------|--------------------------------|-------------------|---------------|----------------------|--------------------------------------------|-----------------------------------------------------|-------------------------------------------------|-----------------------|----------------------------------------------------------------------------------|----------------------------------------------|
| Salmon, fresh, lbs. | Herring, salted, brls. | Herring, fresh, lbs. | Lobsters, preserved in cans, lbs. | Lobsters, fresh in shell, cwt. | Cod, dried, cwt. | Cod tongues aud sounds, brls. | Haddock, dried, cwt. | Hake, dried, cwt. | Halibut, lbs. | Smelts, lbs. | Squid, brls. | Fish oil, galls, | Fish as bait, brls. | Fish as manure, brls. | TOTAL VALUE OF ALL FISH. | |
| Ì | | , | | | | | | | | | | | | | \$ c | ts. |
| 7400 5600 5000 1500 | 195 40 160 420 70 25 25 | | 23104 16704 22560 28800 9100 11328 | | 7190 2500 8900 15800 8500 4500 1250 | | 25 5 40 19 17 2 | 40 13 12 | | 3000 1000 2000 | 220 86 180 323 400 30 25 | 5500 980 5700 7100 7050 2500 1000 | 350 260 1200 1100 700 150 125 | 600 | 39,265 8 19,725 0 46,292 0 75,798 2 41,243 0 19,205 5 11,153 1 |)5)0)5)0)0 |
| F=00 | | | | ! | | 1 | 100 | 00 | | 6000 | 1264 | 29830 | 9005 | | | |
| 5500 | 935 | | 111596 | | 48640 | | 108 | 92 | | 0000 | 1201 | 23030 | 3885 | 600 | 252,682 7 | 0 |
| | | Cape (| 111596 | , | 48640 | | 108 | 92 | | 0000 | 1204 | 29030 | 3000 | 600 | 252,682 7 | 0 |
| | | Cape (| 1 | | 10200 5200 2400 40 30 640 3000 | | | | | 3000 42950 | 250 100 50 75 | 5500 1700 1275 35 24 220 | 1400 2600 800 10 170 | 600 | 51,654 0 28,272 8 15,535 3 4,665 5 10,579 5 4,590 2 6,412 2 | 00 30 50 50 50 50 50 50 50 50 50 50 50 50 50 |

Return showing the Number, Tonnage and Value of Vessels, Boats

County of

MAGDALEN RIVER SUBDIVISION

| | | Fı | shin | g Vi | essi | ELS A | ND Bo | ATS. | | Fi | SHING | G | EAR O | r M. | ATI | ERIAL | s. | |
|-----------------------|----------------------------------------------------------------------------------------------------|---------|---------------|--------|--------|-----------------|------------------------------------------------------|-----------------|----------------------|----------------------------------------------------|---------------------|------------|----------|--------|---------------|-------------------|---------------------------------------------|---------|
| | Districts. | - | Ves | sels. | | | Boats. | | G | ill Ne | ts. | | Seine | es. | | rap ets. | Ha Lir | |
| Number. | | Number. | Tonnage. | Value. | Men. | Number. | Value. | Men. | Number. | Fathoms. | Value. | Number. | Fathoms. | Value. | Number. | Value. | Number. | Value. |
| | Gaspė County—Con. | 1 | | \$ | | | \$ | | | | \$ | | | \$ | | \$ | | 8 |
| 2 | Grande Etang and Point Sêche | | | | | 108 | 2160 | 180 | 200 | 5000 | 2000 | 2 | 80 | 50 | | | 360 | 720 |
| | Magdalen River | | | | | 84 | 1640 | 125 | 130 | 3250 | 1300 | 1 | 30 | 40 | | | 250 | 400 |
| | Anse Pleureuse and Mont Louis | | | · | | 83 | 1340 | 124 | 130 | 3250 | 1300 | 2 | 60 | 40 | | | 248 | 280 |
| | Totals | - | · · · · | | - | 275 | 5140 | 429 | 460 | 11500 | 4600 | 5 | 170 | 130 | - | | 858 | 1400 |
| | | | | | | | | S' | ΓE. | ANN | E DE | s I | MON | TS | su | BDI | VIS | ION |
| 2 | Claude River to Martin River. Ste. Anne. Cape Chatte. | :: | | | l | 30 114 37 | | 54 168 55 | 30 100 38 | 2500 | 360 1200 300 | | | | | | 108 228 110 | 228 |
| | Totals | | | | | 181 | 2715 | 277 | 168 | 4200 | 1860 | | | | - | | 446 | 446 |
| | | | | | | | | | | *************************************** | | 1 | MAG | DA. | LE | N IS | SLA | NDS |
| 2 3 4 5 6 | Entry Island Amherst Island Grindstone Island Allright Island Grand Entry Grosse Isle Bryon Island | 6 | 240 | 5000 | 30 | 211 | 800 6000 10550 2725 1600 1550 1750 | 592 | $1629 \\ 175 \\ 352$ | 1875 40625 4375 10560 500 32 250 | $\frac{1050}{2112}$ | 7 5 | 575 | 1800 | $\frac{2}{1}$ | 750 200 475 | 30 680 1100 400 130 84 20 | 275 |
| i | Totals | 7 | 255 | 5300 | 34 | 632 | 24975 | 1435 | 2265 | 58217 | 13596 | 12 | 1555 | 3800 | 6 | 1425 | 2444 | 611 |

SESSIONAL PAPER No. 11a

and Fishing Materials, &c.-Province of Quebec-Continued.

Gaspé—Continued.

(Fame Point to Claude River).

| | | | | | | Kini | s of | Fish. | | | | | | | | į |
|---------------------|-----------------------|------------------------------------------|-----------------------------|---------------------------------------------------------------|----------------------------------|-------------------------------|----------------------|----------------------|-------------|----------------|--------------------------------------|-----------------------------------------------|-----------------------|-----------------|-------------------------------------------------------------|----------------|
| Salmon, fresh, lbs. | Salmon, salted, brls. | Herring, salted, brls. | Mackerel, salted, brls. | Lobsters, preserved in cans, ths. | Cod, dried, ewt. | Cod tongues and sounds, brls. | Haddock, dried, cwt. | Halibut, lbs. | Trout, lbs. | Fels, brls. | Fish oil, galls. | Fish as bait, brls. | Fish as manure, brls. | Seal skins, No. | TOTAL VALUE OF ALL FISH. | |
| | | | | 1 | | | | | | | : | | | | \$ et | 8. |
| 1950 | | 850 | | 9120 | 4980 | | | 15800 | 1200 | | 4000 | 1000 | | | 29,934 (|)0 |
| 4800 | 5 | 250 | | 1872 | 19 4 0 | | | 300 | 1000 | | 1500 | 800 | | | 11,949 | 10 |
| 9450 | | 1250 | | | 1325 | | | 3500 | | | 1000 | 450 | 100 | | 13,565 | ю |
| 6200 | 5 | 2350 | | 10992 | 8245 | | | 19600 | 2200 | | 6500 | 2250 | 100 | | 55,448 | 1 0 |
| laud | le Ri | ver to | Cape (| Chatte) | • | | | | | | | | | | | |
| 800 3000 1700 | | 202 1933 416 | | | 396 1094 300 | | | 1900 4400 4500 | | | 250 700 200 | 150 350 120 | 300 700 400 | | 3,192 (14,233 (4,103 (| X |
| 5500 | | 2551 | | | 1790 | | | 10890 | | | 1150 | 620 | 1400 | | 21,528 | Ж |
| JBD | IVI | SION. | | | | | | | | | | | | | | |
| | | 75 3000 2500 1804 437 150 | 1825 2090 2043 203 | 14256 90147 139712 79536 175152 35295 78192 | 3500 2532 480 246 30 | | | | | 100 25 6 | 10 1200 800 125 80 10 | 50 725 1850 1160 500 200 75 | 300 500 150 | | 4,979 : 75,164 : 85,110 : 58,003 : 41,793 : 10,467 : 17,657 | 40 20 90 |
| | | 7966 | | 612290 | 2010 | 25 | 455 | | 1 | 131 | 2225 | 4560 | 950 | 3215 | 293,175 | ~ |

63 VICTORIA, A. 1900

RETUEN showing the Number, Tonnage and Value of Vessels, Boats

County of

GODBOUT SUBDIVISION

| | | Vi | ESSEI | s . | and I | Воатя. | | | Fis | SHING | G | EAR (| or A | ra l | ERIA | LS. | |
|---------------------------------------------------------------------|-----------|----------|-------------|----------|----------------|----------------------|---------------|----------------|-------------|----------------------|---------|------------------|-----------|---------|--------------|------------------|------------------|
| Districts. | | Ves | sels. | | | Boats. | | Gi | 11 Ne | ts. | | Seine | 28. | | rap lets. | Ha Lin | |
| Number. | Number. | Tonnage. | Value. | Men. | Number. | Value. | Men. | Number. | Fathoms. | Value. | Number. | Fathoms. | Value. | Number. | Value. | Number. | Value. |
| Saguenay County. 1 Manicouagan to Jambons | 3 | 47 | \$ | 8 | 210 | \$ 4200 | 176 | 310 | 7500 | \$ 3750 | 5 | 250 | \$ 250 | | \$ | 352 | \$ 141 |
| 1 | 1 1 | , , | | 1 | 1 1 | | | | | 1 | 1 | MOIS | SIE | su | BDI | VIS | ION |
| Jambons & Ste. Marguerite 2 Seven Islands. 3 Moisie and Pigou | 2 | 63 13 | 1400 400 | | | 250 2200 2050 | 8 40 47 | 17 | 2730 | 1200 2525 5540 | 3 | 40 155 110 | | | | | |
| Totals | 3 | 76 | 1800 | 14 | 48 | 4500 | 95 | 57 | 9880 | 9265 | 7 | 305 | 433 | | | | · · · · |
| | | | | | , | | | | | | M | ING. | AN | su | BDI | VIS | ION — |
| 1 River aux Graines and Chaloupe | | | | | 20 24 42 | 1000 1200 1500 | 60 | 5 4 8 | 400 | 300 | 2 | 70 | 300 | 2 | 1000 700 | | 52 60 100 |
| 4 Dock, Ridge Point and Jupitagan | | | | · · | 12 55 59 | 690 1000 2950 | 95 | 3 10 20 | 900 | | 7 | 250 | | | | 56 190 280 | 33 100 140 |
| Romaine | 6 | 285 | | <u> </u> | 5 | 1000 8000 200 | 170 4 | 10 5 3 | 450 200 | 100 100 | 15 | 525 | 1200 | 3 | | 120 530 8 | 4 |
| Totals | 6 | 285 | 3600 | 45 | 332 | 17540 | 701 | 68 | <u> </u> | <u> </u> | 1 | 1656 | J | 1 | 2300 | | 814 |
| | _ | I | | 1 | | | 1 1 | | | i | | | | Г | BDİ | | |
| 1 Piashter Bay | ١ | 106 | ١ | 35 | | 270 900 1400 | 35 | 12 26 70 | | 260 | 3 | | | ١ | | 50 210 468 | 12 63 140 |
| Totals | 4 | 106 | 2000 | 35 | 44 | 2570 | 122 | 108 | 1900 | 1080 | 11 | 540 | 550 | | | 728 | 215 — |
| | | | | 1 | 1 | | , | | WA | SHE | EC | 1000 | IAI | su | BDI | VIS | ION |
| 1 Kegashka | ı. | 20 | 400 | 3 | 5 27 | 500 1550 | | | 500 1500 | | 2 2 | 80 80 | | 3 | 600 | 20 106 | 20 75 |
| 2 Washeecootai and Romaine 3 Coacoachoo and Meagher's Creek | | | | | 15 | 300 | 40 | 5 | 500 | 250 | 3 | 120 | 100 | 1 | 400 | 20 | 10 |

SESSIONAL PAPER No. 11a

and Fishing Materials, &c.—Province of Quebec—Continued.

Saguenay.

(Manicouagan to Mai Islands).

| | | | | | | | Kı | O sur | F Fish | • | | | | | | | İ | | | |
|------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|----------------------|-------------------------|-----------------------------------------|---------------------------------------------------------------------------------------|------------------------------------|----------------------------------------------|---------------------------------------------------------------------------|-----------------------------|--------------|----------------------------|------------------------------|----------------------------------------------------------------------------------|--------------------------------------------------------------------------|-----------------------|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------|
| Salmon, fresh, lbs. | Salmon, salted, brls. | Herring, salted, brls. | Herring, fresh, lbs. | Mackerel, salted, brls. | Lobsters, preserved in cans, lbs. | Cod, dried, cwt. | Cod tongues and sounds, bris. | Haddack, dried, cwt. | Halibut, lbs. | Trout, lbs. | Smelts, lbs. | Squid, brls. | Coarse and mixed fish, brls. | Fish oil, galls. | Fish as bait, brls. | Fish as manure, brls. | Seal skins, No. | TOTAL VALUE OF ALL FISH | OF H. | Number. |
| 2222 | | _ | | | , | 44.0 | | | | | | | | | | | | | ets. | |
| 82000 | - | 7 | 183000 | 50 | 2976 | 310 | 11 | • • • • | 7500 | 2700 | 3000 | 20 | | 3768 | 170 | 53 | 547 | 24,298 | 85 | |
| Jamb | ons | to F | igou). | | | | | | | | | | , | | | | | | | _ |
| 2800 22500 28000 | | 4 65 | | | | 180 633 474 | | | 800 12800 5200 | | | | | 120 521 541 | 100 100 75 | ١ | 4 57 70 | 1,502 9,050 28,568 | 55 | |
| 53300 | | 69 | | | | 1287 | 19 | | 18800 | 1800 | | | | 1182 | 185 | | 131 | 39,129 | 85 | |
| Pigou | to | Wat | sheesh | ю). | - | | 1 | 1 1 | | | | | | | | | | | | _ |
| 2800 1200 | | | | 20). | | 840 5000 860 | 10 4 | | 3000 5000 2000 | | | 14 50 15 | | 650 4000 650 | 1250 300 | | 8 10 | 4,286 24,445 4,637 | 00 50 | |
| - 2800 1200 9200 | The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s | Wat | | 20). | | 500 0 | 10 4 15 20 | 400 600 | 5000 2000 4000 5000 | | | 50 | | 4000 | 1250 300 1500 1600 | | i | 24,445 4,637 25,356 36,665 | 00 50 75 00 | |
| 2800 1200 9200 42000 7255 | | 130 | | 20). | | 5000 860 4500 5500 1800 270 | 10 4 15 20 8 | 400 600 10 400 | 5000 2000 4000 5000 4000 2000 | 2000 £.00 | | 50 15 12 10 50 | | 4000 650 3100 3800 1800 6000 250 | 1250 300 1500 1600 300 | | 10 15 20 330 1100 75 | 24,445 4,637 25,356 36,665 10,653 17,431 483 | 00 50 75 00 50 00 75 | |
| 9200 42000 7255 1200 63655 | The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon | 130 | | | | 5000 860 4500 5500 1800 270 | 10 4 15 20 8 | 400 600 10 | 5000 2000 4000 5000 4000 | 2000 £.00 | | 50 15 12 | | 4000 650 3100 3800 1800 6000 | 1250 300 1500 1600 300 | | 10 15 20 330 1100 | 24,445 4,637 25,356 36,665 10,653 17,431 | 00 50 75 00 50 00 75 | |
| 2800 1200 9200 42000 7255 1200 63655 | The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon | 130 | | | | 5000 860 4500 5500 1800 270 | 10 4 15 20 8 | 400 600 10 400 | 5000 2000 4000 5000 4000 2000 | 2000 £.00 | | 50 15 12 10 50 | | 4000 650 3100 3800 1800 6000 250 | 1250 300 1500 1600 300 | | 10 15 20 330 1100 75 | 24,445 4,637 25,356 36,665 10,653 17,431 483 | 00 50 75 00 50 00 75 | |
| -2800 1200 9200 42000 7255 | | 130 | | | | 5000 860 4500 5500 1800 270 21200 Point | 10 4 15 20 8 57 | 400 600 10 400 | 5000 2000 4000 5000 4000 2000 | 2000 ₹00 750 3250 | | 50 15 12 10 50 | | 4000 650 3100 3800 1800 6000 250 | 1250 300 1500 1600 300 1000 6200 | | 10 15 20 330 1100 75 | 24,445 4,637 25,356 36,665 10,653 17,431 483 | 50 75 00 50 00 75 50 50 | 1 |
| 2800 1200 9200 42000 7255 1200 63655 Watsl | 28 24 | 130 | | | quan 10080 11328 | 5000 860 4500 5500 1800 270 21200 Point 75 400 1100 | 10 4 15 20 8 57 | 400 600 10 400 | 5000 2000 4000 5000 4000 2000 25000 | 2000 ₹.00 750 3250 | | 50 15 12 10 50 | 15 | 4000 650 3100 3800 1800 6000 250 19250 | 12500 3000 15000 16000 3000 10000 62000 500 6000 | | 10 15 20 330 1100 75 1558 | 24,445 4,637 25,356 36,665 10,653 17,431 483 123,958 2,458 4,755 13,082 | 50 75 00 50 00 75 50 50 50 50 50 50 25 | |
| 2800 1200 92000 92000 7255 1200 63655 Watsl | 28 24 52 | 130 1644 2944 | | asl | quan 10080 11328 2400 23808 | 5000 860 4500 5500 1800 270 21200 Point 75 400 1100 | 10 4 15 20 8 57 | 400 600 10 400 | 5000 2000 4000 5000 4000 25000 150 200 400 | 2000 ₹.00 750 3250 | | 50 15 12 10 50 | 15 15 15 30 | 4000 650 3100 3800 1800 250 19250 75 400 5000 | 12500 3000 15000 16000 3000 10000 62000 500 6000 | | 10 15 20 330 1100 75 1558 | 24,445 4,637 25,356 36,665 10,653 17,431 483 123,958 2,458 4,755 13,082 | 50 75 00 50 00 75 50 50 50 50 50 50 25 | |
| 2800 1200 92000 42000 7255 1200 63655 Watsl | 28 24 52 Jo | 130 164 294 shoo | to Nat | asl | quan 10080 11328 2400 23808 | 5000 860 45000 1800 270 21200 Point 75 400 1100 1575 | 10 4 4 15 20 8 57 | 400 600 10 400 | 5000 2000 4000 5000 2000 25000 150 200 400 750 | 2000 ₹.00 750 3250 | | 50 15 12 10 50 | 15 15 15 30 | 4000 650 3100 3800 1800 250 19250 75 400 5000 | 1250 300 1500 1600 300 1000 6200 6200 850 | | 10 15 20 330 1100 75 1558 | 24,445 4,637 25,356 36,665 10,653 17,431 483 123,958 2,458 4,755 13,082 20,295 | 00 50 75 00 50 00 75 50 50 60 25 35 | 112 37 37 37 37 37 37 37 37 37 37 37 37 37 |
| 2800 1200 9200 9200 7255 1200 63655 Watsl | 28 24 52 Jo | 130 164 294 shoo | to Nat | asl | quan 10080 11328 2400 23808 | 5000 8600 45005 55000 270 21200 Point 755 4000 1575 | 10 4 4 15 20 8 57 | 400 600 10 400 1410 | 5000 2000 4000 5000 2000 25000 150 200 400 750 | 2000 £000 750 3250 | | 50 15 12 10 50 | 15 15 15 30 | 4000 650 3100 3800 1800 250 19250 75 400 5000 5475 | 1250 300 1500 1600 300 1000 6200 850 100 75 | | 10 15 20 330 1100 75 1558 | 24,445 4,637 25,356 36,665 10,653 17,431 483 123,958 2,458 4,755 13,082 20,295 | 00 50 75 00 50 00 75 50 50 60 25 35 | 1 |

RETURN showing the Number, Tonnage and Value of Vessels, Boats

County of

ST. AUGUSTIN SUBDIVISION

| | | T 19 | HING | VES | SELS | AND | Вол | TS. | | F | ISHIN | G М . | ATERI | IALS. |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------|--------|---------|--------------------------|------------------------------------|---------------------------------------|---------------------|-----------------------------------|-----------------------------------|---------------------------------|--------------------------|--------------------------------|
| | Districts, | | Ves | sels. | | | Boat | s. | G | ill N | ets. | S | Seine | s. |
| Number. | | Number. | Tonnage. | Value. | Men. | Number. | Value. | Men. | Number. | Fathoms. | Value. | Number. | Fathoms. | Value. |
| | Saguenay County.—Con. | | | 8 | | | s |] | | | \$ | | | s |
| 2 3 4 5 6 | Wolf Bay and Netagomin. St. Mary's Island and Harrington Little Meccatina and Whale Head Mutton Bay La Tabatière and neighbourhood. St. Augustin Sandy Island to Chicatica. | | | | | 50 50 | 1220 1000 1000 800 300 | 9 97 35 60 30 12 10 | 14 | 1400 700 1400 750 | 650 500 650 500 500 | 1 8 5 8 5 3 2 | 250 400 250 150 | 100 125 250 125 75 |
| | Totals | | | | | 237 | 4830 | 253 | 104 | 6250 | 3 45 0 | 32 | 1460 | 755 |
| | | | | | I | 30N | NE | ESP | ERA | NCI | e su | BDI | VIS | ION |
| 2 3 4 | Nabitippi to Old Fort Bonne Espérance. Pigeon Island, Stick Point, Salmon Bay. Little Fishery to Belles Amours Bras d'Or to Blancs Sablons | 1 | 250 50 | 1000 | 14 6 | 40 60 20 75 | 1500 | 130° 38 150 | 10 16 10 6 | 800 1600 800 600 | 1800 650 1500 600 600 | 8 6 6 — | 700 600 500 500 | 1200 500 1000 |
| | Totals | 4 | 330 | 7500 | 24 | 241 | 9€90 | 490 | 67 | 5600 | 5150 | 40 | 2900 | 5050 |
| | | | | | | | | | | | | AN | ricc | STI |
| 2 3 4 | Fex Bay. Salmon River English Bay. Strawberry Cove. Chaloupe Creek. | | | | | 12 2 10 20 2 | 500 800 | 12 2 20 40 2 | 3 20 | 1200 250 600 1200 300 | 150 300 400 | 2 1 2 4 | 30 100 | 100 |

and Fishing Materials, &c.—Province of Quebec—Continued.

Saguenay—Continued.

(Wolf Bay to Chicatica).

| | | | | | | | | Kin | DS OF | Fish. | | | | | | |
|-------------------------|--------------------------------------|--------------------------------------------|--------------------------------------|-----------------------------------|-------------------------------------------|--------------------------------|------------------------------------------|-------------------------------|---------------------|----------------------------|--------------------------------------------------|---------------------------------|-----------------|-----------------------------------------------|----------------------------------------------|----------------------------|
| raj | Nets. | Han Line | | l, brls. | d, brls. | erved in | نِب | nd | | | | rls. | e, brls. | | Total Value of A | LL |
| Number. | Value. | Number. | Value. | Salmon, salted, brls. | Herring, salted, brls. | Lobsters, preserved cans, lbs. | Cod, dried, cwt. | Cod tongues and sounds, brls. | Halibut, lbs. | Trout, lbs. | Fish oil, galls. | Fish as bait, hrls. | Fish as manure, | Seal skins, No. | Fівн. | |
| | \$ | | ŝ | | İ | | | | | | | | | | \$ c | ts. |
| 7 10 10 7 2 | 2000 3000 3000 2100 600 | 20 384 140 240 120 25 40 | 5 96 35 60 30 7 10 | 10 3 5 8 10 6 8 | 25 250 27 130 150 25 10 | 32800 950 34432 | 200 650 1000 1440 820 100 | | | 2000 | 400 861 2180 1500 4340 390 200 | 210 250 300 150 400 | | 100 187 460 180 1280 110 50 | 5,977 7,525 | 05 00 00 40 50 |
| 38 | 11300 | 969 | 243 | 50 | 617 | 68182 | 4310 | | | 3000 | 9871 | 1910 | | 2367 | 43,179 | 45 |
| hic | atica to | Blan | ics Sa | ablon | s). | | | | | | | | | | | |
| 12 8 12 7 | 3600 3200 3600 1750 5400 | 100 150 250 90 300 | 30 80 100 25 100 | 21 30 10 10 3 | 100 20 500 30 | 2400 | 1200 4000 3000 1200 4000 | | | 1000 800 1200 750 | 750 2000 1800 750 3000 | 100 200 150 60 200 | | 50 30 48 30 360 | 6,132 17,867 13,175 7,377 17,815 | 50 00 50 |
| 57 | 17550 | 890 | 335 | 74 | 650 | 2400 | 13400 | | | 3750 | 8300 | 710 | | 518 | 62,367 | 50 |
| LA | ND. | | | | | | | | | | | | | | | |
| | | 20 4 | 20 4 | | 500 | 33600 | 200 | | 1000 | | 400 | 150 | | 50 | 10,027 | 50 |
| | | 20 50 | 20 45 | 12 | 200 200 | | 150 1000 | 10 | 500 400 0 | | 250 1000 130 | 60 200 | 100 150 | 30 30 50 | 1,702 6,012 281 | 50 |
| - - | | 94 | 89 | : | 900 | 33600 | 1350 | 10 | 5500 | | 1780 | 410 | 050 | 160 | 18,024 | - |

RECAPITULATION
Showing the Number of Vessels and Boats, Nets and all Fishing Materials, &c., in the Gulf District, Province of Quebec, for the year of 1898.

| | | E E | COUNTY OF FISHING VESSRLS AND BOATS | CC | COUNTY RLS AND B | 7 OF BC | OF BONAVENTURE | ENT | URE. | F | II III | FISHING GRAR OR MATERIALS. | OR MATE | RIALS | | | | 1) |
|---------------------------------------------------------------------------------------------------|----------|--------------------------------------|--------------------------------------------|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------------|--------------------------------------------|-------------------------------------------------------------|------------------------------------------------------|--------------|---------------------------------------------------------|----------------------------------------------------------------------|---------|--------------------------------|---------|---------|----------------------------------------|
| | | \A | Vessels. | | | Boats. | | | Gill Nets | žš. | | Seines. | | Trap | Trap Nets. | Tr | Trawls. | |
| Уштьет. | Number. | Топпаge. | .ənlıs∨ | Men. | Zumber. | Value. | Men. | Number. | Fathoms. | ,9nIsV | Zumber. | Fathoms. | Value. | Number. | Value, | Number. | Value. | Number. |
| 1 Restigouche. 2 Carleton 3 Bonaventure 4 Port Daniel | | | 4 : | | 53 352 640 442 | \$ 795 4740 8580 13510 | 100 714 953 | 85.55 26.55 26.55 26.55 | 6000 13400 26370 10680 | \$ 4000 6900 13750 11081 | | 1170 3200 1525 | 410 2580 1220 | | Ge . | 126 | 6300 | H01004 |
| Total | | | | | 1487 COU | 487 27625 2485 2640 COUNTY OF GASPÉ | 2485 2640 F GASPÉ | 2640 SPÉ. | 26450 | 35731 | 212 | 5895 | 4210 | | | 341 | 2630 | |
| Grand River Subdivison 2 Gaspe 3 Fox River 4 Mont Louis 5 Ste. Anne 6 Magdalen Islands | | 552 | 2300 | ::::::::::::::::::::::::::::::::::::::: | 664 805 410 275 181 632 | 22810 22210 3169 5140 2715 24975 | 1524 966 798 429 277 1435 | 1452 667 1518 460 168 22265 | 32455 21724 15420 11500 4200 58217 | 12568 16150 3990 4600 1860 13596 | | 1055 2151 170 1555 | 740 2053 130 3800 | :::::9 | 1435 | 098 | 9020 | 108460 |
| Total | - | 225 | 5300 CC | 00 34 2 COUNTY | 2967 FY OF | 81019 5429 SAGUENAY | 5429 6530 ENAY (No | | 5530 143546 (North Shore) | 52764 e). | 117 | 4931 | 6723 | 9 | 1435 | 360 | 9020 | 1 1 |
| 1 Godbout Subdivision 2 Moisie 3 Mingan 4 Matsahan 5 Waheecootai 6 St. Augustin 7 Bonne Espérance | 8834 | 74 76 285 106 106 330 | 650 1800 3600 2000 400 7500 | ∞475% £ '4' : | 210 832 84 44 44 77 123 141 142 143 144 144 144 144 144 144 144 144 144 | 4200 4500 17540 2570 2350 4830 9690 2400 | 176 170 122 122 123 853 853 650 76 | 867428 | 250 250 250 250 250 250 250 350 350 | 3750 9265 3850 1080 1050 3450 1450 | | 250 305 1656 540 280 1460 2900 420 | 2,45 2,45 2,45 2,00 2,00 2,11 2,00 4,30 4,30 | | 2300 1000 11300 17550 | 4 | 100 | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ |
| Total | 5 8 8 | 1119 | 15950 | ह्य हि | 1205 | 48080 156724 | 9923 9989 | 818 | 43430 243426 | 29144 | 를 <u> </u> 총 | 18637 | 21346 | 96 20 | 32150 | æ 6 | 11800 | |

SESSIONAL PAPER No. 11a

| RECAPITOLATION | SHOWING the Number of Vessels and Boats, Nets and all Fishing Materials, &c.—Gulf District, Province of Quebec—Continued | COUNTY OF BONAVENTURE—Continued. |
|----------------|--------------------------------------------------------------------------------------------------------------------------|----------------------------------|
|----------------|--------------------------------------------------------------------------------------------------------------------------|----------------------------------|

| | | - | ISHING | ດ G r | sr or l | FISHING GRAR OR MATERIALS. | ALS. | | LoB | LOBSTER PLANT. | ANT. | | | Отнев | FixT | OTHER FIXTURES USED IN FISHERIES. | NI C | FISHEE | HES. | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|--------------|------------|--------------|-----------------|-------------------------------------------------------------------|-------------------|------------------|---------------------------------------------------------------------------------|----------------------------|---------------------------|------------|----------------|-----------------------------|----------|--------------------------------------------------|--------------|---------------|-----------------------------------------------|-------------|
| Ē | Division | Š | Weirs. | Smel | Smelt Nets | Hand Lines. | Lines. | Canı | Canneries. | Traps. | ps. | spu | Free: Ice l | Freezers and Ice Houses. | Smok | Freezers and Smoke & Fish Ice Houses. Houses. | Pier W | Piers and [7] | Luga, | Tuga, Stra. |
| | , islos 3. | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. | Number | Value. | No. of har | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. |
| Restigouche 3 Bonaventure. 4 Port Daniel | | 13 | 110 | 88 : : | 3000 480 | 150 1240 1322 | 372 372 700 | : - 60 10 | 500 500 850 2050 | 45 650 3250 10450 | 45 350 1800 5730 | e 1 8 22 | 113 | 200 390 400 | \$5138 c | 1000 120 40485 250 | : 8 | 3000 | - : : : : | |
| | Total | 13 | 110 | 88 | 3480 | 2712 | 1183 | | 3400 | 14395 | 7925 | 334 | 8 | 1280 | 120 | 41855 | 2 | 3000 | | : |
| | | | | | | Ö | COUNTY | OF | GASPÉ | I-Continued. | rued. | | | | | | | | | |
| Grand River | · Subdivision | : | | | | 4870 | 5214 | 12 | | 15880 | | | 12 | 740 | | | ľ | 1800 | _ <u>;</u> | : |
| 2 Gaspe 3 Fox River | = = | :: | | <u>:</u> : | : : | 1388 | 951 2568 | 3,:: | 4 00 00 00 00 00 00 00 00 00 00 00 00 00 | 0089 | 67 10 2650 | ₹4 | :- | 200 | 28 | 21734 | 4.0 | <u> </u> | : : | : : |
| Mont Louis | : | : | | : | : | 858 | 1400 | C) | | 2000 | | | :_ | : | <u>*</u> | | | 1000 | : | : |
| Magdalen Islands | lands " | :: | : <u>:</u> | : : | | 2444 | 611 | . 8 6 | 37784 | 99385 | 52494 | 1690 | : : | | 124 | 12100 | : 8 3 | 2002 | 20 | :§ |
| | Total | | | | : | 11908 | 11190 | 117 | 46094 | 134615 | 70779 | 2209 | 13 | 1240 | 372 | 95584 | 57 | 11875 | , | 8 |
| And the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s | | | | | 000 | COUNTY | OF SAG | SAGUEN | ΑY | (North Shore) | 11 | Continued. | | | | | | | | |
| ıt | Subdivision | | | | 15 | 352 | 141 | | 400 | 150 | 75 | , | 17 | 170 | | 82 | | 300 | <u></u> | : |
| 2 Moisie 3 Mingan | | : : | : : | : : | | 1608 | 814 | <u>: :</u> | | | : : | : : | | 3 8 | * & | 24100 | _ | 2400 | <u>: </u> | : ; |
| 4 Natashquan | Ξ | : | : | - | : | 85.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 2 | 212 | | 84 % 05 5 | | | | : | | ຂ | 8 8 8 | | | : | : |
| washeecooca St. Angustin | | : : | | • | 3 | 696 676 | 243 | | 1420 | 4250 | | | | | | | : : | | | : : |
| 7 Bonne Espérance 8 Anticosti | = = | : : | : : | : : | | æ ₹ | 85 gg | (- 4 | <u> </u> | 1650 4000 | 2002 | 88 | :: | | 8.2 | 0270 0400 | #7 | 2250 | | : : |
| | Total | | | 2 | 105 | 4787 | 1942 | 88 | 3680 | 13460 | 7835 | 226 | 123 | 1570 | 219 | 38780 | 19 | 5850 | <u> </u> | : |
| Grd. total fo | Grd. total for the Gulf District. | 133 | 110 | 16 | | 3585 19407 | 14315 | 154 | 54074 | 162470 | 86539 | 2769 | 67 | 4090 | 738 | 176219 | 2 | 20725 | 2 | 800 |

RECAPITULATION

| for the Year 1898—Continued. | |
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| 7 of Bonaventure, for | The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon |
| กลง | |
| BÖ. | 1 |
| of | 1 |
| e County | |
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| n th | |
| of Fish caught in the County of Bonaventure, for the | |
| Value | |
| ies and | |
| Quantit | |
| ds, | |
| Kil | |
| the | |
| NG | |
| SHOWI | |
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| | | 'ųs | рэ1 | r | 'qs | ·so | KIN KIN | KINDS OF FISH. | 1 | | 'sp | | | |
|----------------------------------|-----------------------------------|-------------|-----------------------------------------|-------------------------|----------------------|----------------------------------|--------------------------|---------------------------------------------------------------|---------------|---------------------|-----|-----------------------------------|-----------|--------------------------------|
| Number: | Divisions. | Salmon, fre | Salmon, sal brls. | Herring, salted, bri | Herring, fre lbs. | Herring, smoked, Il | Mackerel, salted, brl | Lobsters, p served in cans, lbs. | Lobsters, fro | Cod, dried, cwt. | | Cod tongues and sound bris. | Sug sound | and sound bris, Haddock, |
| 1 Restigouche | | 1900 | : | 25 | 8000 | | | | | : | | : | | |
| 1 Carleton | : | 53200 | : | 096 | 10000 | 16000 | 37 | 7800 | စင္ | 590 | | | | 2000 |
| 4 Port Daniel | | 35312 | : | 1790 | | 1000 | | 69336 | : | | | 38 | 100 | ٠. |
| | Total | 152686 | : | 5550 | 52500 | 54000 | 2 | 89520 | 116 | 16125 | 1 | 125 | 125 12000 | 125 12000 468 |
| | | COL | COUNTY | OF GA | SPE | OF GASPE-Continued | | | | : | | | | = |
| 1 Grand River | ivision | 55500 | | 935 | : | | : | 111596 | : | 48640 | : | : | | 108 |
| 8 Fox River | | 16:300 | : : £ | 1460 | 63500 | | | 12280 | ±€ | 13860 | : | | 31 | 31 122 |
| 5 Ste. Anne | | 5500 | • · · · · · · · · · · · · · · · · · · · | 2551 | | | | Secor | | 1790 | | : : | | |
| 6 Magdalen Islands | = | | : | 7966 | | | 6445 | 612290 | | 6313 | | 93 | 132 | 25 455 |
| | Total | 193730 | ,C | 169: 5 | 63.00 | : | 6145 | 812492 | £ | 100858 | | 15 | 56 | 56 685 |
| | 000 | COUNTY OF | , | ENE | V (North | SAGUENAY (North Shore)—Continued | Contin | ued. | | | | - 1 | : | |
| 1 Godbout Sub | Subdivision | 82000 | : | 1-8 | 183000 | : | 9: | 2973 | : | 310 | | === | 17 | |
| 3 Mingan | | 63655 | | ₹ | | | : : | | : : | 21200 | | 51 E | 57 | 57 1410 |
| 5 Washeecootai | | DWN | 2 83 | 129 | | | : | 35.55 3.50 3.50 3.50 3.50 3.50 3.50 3.50 | : | 1575 | : | : | | |
| 6 St. Augustin " | ٠ | | 20 | 617 | | | : | 68182 | | 4310 | | | | |
| 7 Bonne Esperance 8 Anticosti | = = = | | <u> </u> | 00 00 8 83 | :: | | : : | 2400 33600 | : : | 13400 | : | . 01 | 10 | 10 |
| | Totrl | 316955 | 2112 | 5666 | 183000 | | 58 | 165046 | | 44177 | | 97 | 97 | 97 1410 |
| Grand t | Grand total for the Gulf District | 128899 | 916 | 95151 | 000000 | 54000 | 6407 | 1047058 | 15 | 161160 | | 970 | , | 278 19000 9563 |

Snowing the Kinds, Quantities and Values of Fish caught in the County of Bonaventure, for the Year 1898-Continued. RECAPITULATION

| | | | | | | | KINDS OF | F FISH. | | | | | | |
|------------------------------------------------------------------------------------------|---------|---------------------------------------|--------------------------------------|--------------------------|-------------|-----------------|-----------------------------------|--------------------|-----------------------------------|----------------------------------------|---------------------------------------------|-------------------------------|------------------------------------------|-------------------------------------------------------------------------------|
| DIVISIONS. | | sdl ,tudilaH | Trout, lbs. | Smelts, lbs, | Kels, brls. | Fiounders, Ibs. | Tonn cod or frost sh, lbs, | Squid, brls. | Coarse and mixed fish, alrd | Fish oil, galls. | tisd as daif. slad | Fish as ma- nure, brls. | Seal skins, No. | Total Value of all Fish. |
| 1 Restigouche 2 Carleton 3 Bonaventure 4 Port Daniel | | | 6000 900 4000 | 266642 15700 14000 | 88.5 | 30500 | 50000 | 355 | 500 | 220 1994 5795 | 250 1778 2150 | 50C 10500 26000 1830 | 1 | \$26,747 10 28,644 00 68,513 %0 68,731 60 |
| Total | Total | | 10900 | 296342 | | 30500 | 51800 | 355 | 800 | 8008 | 4178 | 38830 | 4 | 192,636 50 |
| | | ! | | COUNTY | | F GAS | OF GASPE-Continued. | nucd. | | | | | | ř |
| Grand River Subdivision 2 Gaspé 3 Korer " 4 Mont Louis 5 Ste. Annes 6 Magdalen Islands " | uo | 53000 19600 10890 | 2200 | 6000 | 131 | | | 1264 575 400 | | 29830 10154 6925 6500 1150 | 3885 5790 1850 2250 620 4560 | 600 1400 950 | 3215 | 252,682 70 145,433 50 77,224 50 55,448 40 21,528 00 203,175 25 |
| Total | | 83490 | 2200 | 51950 | 131 | | | 2239 | | 56784 | 18955 | 3050 | 3215 | 845, 492 35 |
| | | - | COUNTY | OF | SAGU | ENAY (| SAGUENAY (North Shore).—Continued | re).—Co | ntinued. | | | | | |
| /isio | | 7500 18800 25000 750 1900 | 2700 1800 3250 3100 3000 | 3000 | | | | 20. | 99 | 3768 1182 19250 5475 810 | 170 185 6200 850 1910 | | 547 131 1558 1393 85 2367 | 24,298 85 39,129 85 123,958 50 20,295 35 11,845 75 43,179 455 |
| 7 Bonne Espérance " | | 5500 | 37.50 | | : : | | | | | 8300 1780 | 710 410 | 250 | 518 160 | 62,367 18,024 |
| Total. | | 59450 | 17600 | 300) | | | | 171 | 00 | 50436 | 10660 | 303 | 6229 | 343,007 25 |
| Grand total for the Gulf District. | istrict | 142940 | 30700 | 351292 | 217 | 30500 | 51800 | 27.65 | 860 | 115229 | 33793 | 41183 | 8206 | 1 381 996 10 |

RECAPITULATION.

STATEMENT showing Yield and Value of the Fisheries of the Gulf Division, P. Q., for the Season of 1898.

| Description. | Quantity. | Price. | Value. |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|--------------|--------------|
| | | \$ cts. | \$ ets |
| Salmon, fresh in ice Lbs. | 663,371 | 0 20 | 132,674 20 |
| salted Brls. | 216 | 15 00 | 3,240 00 |
| Herring " | 25,151 | 4 00 | 100,604 00 |
| fresh Lbs. | 299,000 | 0 01 | 2,990 00 |
| " smoked | 54,000 | 0 02 | 1,080 00 |
| Mackerel, salted Brls. | 6,497 | 15 00 | 97,455 00 |
| Lobsters, canned Lbs. | 1,067,058 | 0 20 | 213,411 60 |
| fresh, whole Cwt | 201 | 5 00 | 1,005 00 |
| Cod, salted | 161,160 | 4 00 | 644,640 00 |
| tongues and sounds, salted Brls. | 278 | 10 00 | 2,780 00 |
| Haddock, freshLbs. | 12,000 | 0 03 | 360 00 |
| salted Cwt. | 2,563 | 3 00 | 7,689 00 |
| Hake, salted | 214 | 2 25 | 481 50 |
| Halibut, fresh Lbs. | 142,940 | 0 10 | 14,294 00 |
| Frout " " Smelt " " | 30,700 | 0 10 | 3,070 00 |
| Eels, salted Brls | 351,292 | 0 05 | 17,564 60 |
| B1 / 1 | 217 | 10 00 | 2,170 00 |
| Communication of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction | 30,500 | 0 05 | 1,525 00 |
| Squid, fresh | 51,800 | 0 05 | 2,590 00 |
| Coarse and mixed fish | $\begin{array}{c} 2,765 \\ 860 \end{array}$ | 4 00 2 00 | 11,060 00 |
| Fish oil Galls | 115.229 | 0 30 | 1,720 00 |
| Fish as bait Brls. | 33,793 | | 34,568 70 |
| Pt. 1. | 41,183 | 1 50 0 50 | 50,689 50 |
| Seal skins Pieces. | 9.978 | 1 25 | 21,091 50 |
| ocal skins leves. | 9,910 | 1 20 | 12,472 50 |
| Total value for 1898 | | | 1,381,226 10 |
| . 1897 | | | 1,393,126 40 |
| 4 | | 1- | 1,000,120 40 |
| Decrease for 1898 | | 1 | 11,900 30 |

RECAPITULATION.

RETURN showing Number of Men, Vessels and Boats, &c., and Value of Material employed in Gulf Division Fisheries, Season of 1898.

| Description. | Value. | , |
|---------------------------------------------|---------|-----|
| | \$ | cts |
| 28 vessels of 1,119 tons manned by 163 men. | 21,250 | 00 |
| 5,659 boats fished by 9,923 men | 156,724 | |
| 43,426 fathoms of gill-net | 117,640 | |
| 480 seines of 18,637 fathoms | 21,346 | |
| 120 trap-nets | 33,585 | |
| 709 trawls | 11,800 | |
| 13 weirs | 110 | |
| 91 smelt nets | 3,585 | |
| 19,407 hand fishing lines | 14.315 | |
| 154 lobster canneries employing 2,769 hands | 54.074 | |
| 62,470 lobster traps, with lines, &c | 86,539 | |
| 67 freezers and ice-houses | 4,090 | |
| 720 smoke and fish-houses | 176,219 | |
| 120 piers and wharfs (private) | 20,725 | |
| 5 smacks and steamers | 800 | |
| Total value | 722,802 | 00 |

63 VICTORIA, A. 1900 PROVINCE OF QUEBEC—

RETURN of the Number of Fishermen, the Number of Boats, Nets, &c., the Quantity

Cape Chat to Point Lévis,

| | | | Fis | SHING | 3 Маті | GRIALS. | | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|----------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|------------------------|
| Districts. | 1 | Boats. | | (| Gill Ne | ts. | | rush or Weirs | | : | , brls. |
| | Number. | Value. | Men. | Number. | Fathoms. | Value. | Number. | Value. | Salmon, Ibs. | Sharl, Ibs. | Herring, salted, brls. |
| | | 8 | | | | ş | | 8 | | | |
| 5.St. Roch 6.St. Jean Port Joli 7 L'Islet 8 Cap St. Ignace 9 St. Thomas 0 Berthier 1.St. Valier 2.St. Michel 3 Beaumont 4 Lévis 5.St. David and St. Nicholas | ····· 7 | 376 80 328 4322 260 376 500 125 160 40 40 40 75 32 96 154 123 123 70 35 | 199 600 133 277 559 355 266 67 5 12 9 9 7 7 8 8 4 4 4 2 27 12 12 12 12 12 12 12 12 12 12 12 12 12 | 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 50 50 75 370 585 650 370 650 300 210 | 288 144 204 804 336 432 1100 600 120 | 55 111 9 17 14 8 8 2 4 4 3 3 1011 12 12 12 12 10 6 6 28 8 3 3 1 1 1 | 100 220 450 850 200 250 50 100 75 7040 1240 620 1065 2130 1025 | 1326 1470 15000 18000 20000 1050 75 175 130 2950 10 40 500 | 20000 35930 500 1300 100 1600 970 4850 4125 6800 | 10 10 113 |
| 6 He aux Grues, aux Oies & other Isl'ds | 4 | 70 48 0 5 | $\frac{5}{780}$ | | 50 12655 | $\frac{200}{28144}$ | | $\frac{3950}{31515}$ | | | 114 |

^{*} In No. 19, include 12 beluga or white whale skins, \$48, and 30 seals \$37.

^{† 1}n No. 23, include 239 beluga skins, \$956, (white whale).

INLAND DISTRICTS.

and Value of all Fish caught on the South Shore of St. Lawrence River from Province of Quebec, for the Year 1898.

| | | | Kini | os of Fis | эн. | | | | | ! | | |
|-----------------------------------------------------------------|----------------------|---------------------|--------------------|----------------------|-------------------------|------------------------|--------------------------------|---------------------------------------|-------------------------------------------------------------|---------------------------------------------------|----------------------------------------------------------------|----------------------|
| Herring, fresh, lbs. | Whitefish, lbs. | Bass, lbs. | Pickerel, lbs. | Sturgeon, lbs. | Eels, lbs, | Sardines, brls. | Mixed and coarse fish, lbs. | Cod, fresh, Ibs. | Halibut, Ibs. | Fish oil, galls. | Total Valu | Е. |
| | | ! | | | | 1 | 1 | | | : | \$ ecs | ١. |
| 7000 8000 7000 11000 15500 7500 7000 18000 | | | | | | | 15000 44000 | | 1100 4500 1500 5000 4900 4500 700 6000 | 130 335 75 90 380 85 180 400 | 8,174 (2,247 § 3,762 (7,257 § 2,159 § 2,303 (| 00 50 00 50 |
| 40000 | | | | 3000 | | | | · · · · · · · · · · · · · · · · · · · | | | 3,400 (3,780 (7,040 (| 00 |
| 100000 | | | | | 6500 | 100 500 | 1200 25300 | | | | 23,112 (26,993 (| 00 00 |
| 500000° 10000 12000 11000 | | | | | | 100 75 100 50 | 20000 5000 8000 10000 | | | | 16,130 (790 (1,035 (786 (| 00 00 |
| 1000 296100 | | | | 2800 | 4900 | 490 | 1586200 | | | 690 | 640 (*28,333 3 | 00 30 |
| 800 600 3800 | | | | 1685 2000 1070 | | 30 25 | 25700 81400 12200 | | | | 592 5 1,171 8 765 0 | 80 00 |
| 30000 | | • • • • • • • | | 1440 | 34000 | 5 | 6200 4000 | | | 12000 | 77,655 4 2,080 0 468 0 | 00 |
| | | | | 600 | 17750 | | 1500 | | | | 1,065 (534 6 1,564 8 | 00 60 |
| • • • • • • • | 3220 2950 | 1740 375 | 2350 325 | | 10800 31100 | | 7100 1585 | | | | 2,022 3 2,326 3 | 30 30 |
| • • • • • • | 4115 1230 1360 | 1335 1280 750 | 825 710 1390 | | 43080 71000 46400 | | 9350 1000 2550 | | | | 3,944 9 4,860 3 3,653 8 | 30 |
| | 1135 625 | 260 40 | 770 250 | 850 150 | 79200 11200 | | 1725 2500 | | | | 5,274 3 791 7 | 35 70 |
| 526300 | 175 | $\frac{25}{5805}$ | $-\frac{25}{6645}$ | $\frac{50}{52910}$ | 25000 473740 | 1690 | 150 1871660 | | 28200 | 14365 | 1,521 7 | (Ē |
| 45263 | 1184 | 464 | 332 | | 28424 | 5070 | | 12780 | 2820 | 4309 | l | |

63 VIČTORIA, A. 1900 QUEBEC

RETURN of the Number of Fishermen, Value of Boats, Nets, &c., and the Quantity to Bersimis, Province of

| | | | | Fis | ning M | [ATERIA | ALS. | | |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------|-------------------------------------------|---------------------------------------------------------------|-------------------------------------------------------------|-----------------|--------------------------------------------------|
| | Distriots. | | Boats. | | G | ill Net | s. | or | ush Eel eirs. |
| Numper. | | Number. | Value. | Men. | Number. | Fathoms. | Value. | Number. | Value, |
| | | | 8 | | | | * | | \$ |
| 2 | Island of Orleans. County of Montmorency. County of Charlevoix | | | 80 35 25 | 13 23 | 4500 2900 | 2700 280 | 90 18 140 | 3400 |
| 5 6 7 8 9 10 11 12 13 14 15 | Saguenay Division. St. Firmin Tadoussac Bergeronnes Bon Désir Escoumains Sault au Mouton Mille Vaches Portneuf Sault au Cochon Islets Jérémie Bersimis Inland Waters *Lake St. John District | 6 6 4 1 7 2 6 6 2 2 | 260 220 80 20 120 90 100 20 90 20 | 7 8 4 1 7 2 6 6 2 6 2 | 4 4 1 5 1 4 1 6 1 | 500 400 75 400 100 350 100 400 80 | 300 250 50 350 75 300 60 350 50 | | 100 25 50 50 125 50 20 |
| | Totals | 48 | 1040 | 291 | 63 | 9805 | 4765 | 267 | 21840 |
| | Values | | | | | | | | |

^{*} No. 16, estimated, include also 95,000 lbs. ouananiche and 8,000 lbs. pike.

-Continued.

and Kinds of Fish on the North Shore of the St. Lawrence, from Quebec City Quebec, for the Year 1898.

| | | | | Kinds | of Fi | sH. | | | | | No. | | | |
|----------------------|-------------|------------------------|-----------------|--------------|----------------|----------------|----------------|-------------------------|-----------------|--------------------------------|-------------------------|--------------------|-------------------------|-----|
| Salmon, lbs. | Shad, lbs. | Herring, salted, brls. | Whitefish, lbs. | Trout, lbs. | Sea bass, lbs. | Pickerel, lbs. | Sturgeon, lbs. | Fels, 1bs. | Sardines, brls. | Mixed and coarse fish, lbs. | Beluga (white whales) N | Beluga oil, galls. | TGTAL VALUE. | |
| | | | | | | i | | | | | | | 8 ct | ts. |
| 300 1600 | 300 | 25 | 4500 2500 | 50000 | 4350 2300 | 2800 1100 | 10160 1840 | 116500 23500 7000 | 25 | $1000 \\ 4200 \\ 15300$ | 6 | 300 | 8,535 2,001 6,182 | 40 |
| | : | 20 | | | | j | | | | 40000 | 400 | | 0.005 | |
| $\frac{1500}{23000}$ | • • • • • • | 20 | | 2000 3000 | | | | | Ð. | 60000 20000 | 100 75 | 5000 3750 | 3,095 6,525 | |
| 19000 | | | | 1000 | | | | | | 20000 | | 0,00 | 3,900 | |
| 2000 | | | | | ! | | | | | | | | 400 | 00 |
| 12500 | | 20 | | 1000 | | | | | 10 | | 20 | 1000 | 3,490 | |
| | | 25 | | 500 | | | | | 8 | 10000 50000 | | | 274 | |
| 4000 13000 | | 50 20 | ii | 2000 2000 | | | | | 15 5 | | | | 1,745 3,095 | |
| 3000 | | 5 | | 200 | | | | • • • • • • | , | 20000 | | • • • • • • | 640 | |
| 18000 | | | ! | 300 | | | | | | | | | 3,630 | 00 |
| 2400 | | 10 | | 1000 | ! | ! | | | 2 | 6000 | | | 686 | 00 |
| 10000 | | | 1.2.2.2.2 | 20000 | | | | | | | | | 4,000 | 00 |
| • • • • • • | | | 14500 | 15000 | | 40000 | | | • • • • • | 50000 | ••• | • • • • • | 11,180 | 00 |
| 110300 | 300 | 175 | 21500 | 98000 | 6650 | 43900 | 12000 | 147000 | 70 | 276500 | 201 | 10050 | ••••• | |
| 22060 | 18 | 700 | 1720 | 9800 | 532 | 2195 | 720 | 8820 | 210 | 2765 | 804 | 3015 | 59,379 | 00 |

63 VICTORIA, A. 1900 RETURN of the Number of Fishermen, Value of Boats, Nets, &c., the Quantity and

Ottawa, in the Province of

| | | | | | Fi | shing 1 | Илті | ERIAL | s. | | | |
|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------|--------------------------------------|------------------------------------|
| | Districts. | | Boats | | Gi | ill Nets | | S | eines | | Ho Ne | |
| Number. | | Number. | Value. | Men. | Number. | Fathoms. | Value. | Number. | Fathoms. | Value. | Number. | Value. |
| | | | s | | | | §. | | | 8 | | \$ |
| 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 | Megantic to Sherbrooke and vicinity Magog and Brome Missisquoi Bay Hischelieu River. Huntingdon, Beauharnois and Chateauguay Laprairie and Montreal Chambly and Verchères County Richelieu and St. Francis River. County Vamaska and River County Nicolet Verotneuf, Champlain and St. Maurice. Maskinonge and Berthier. Montcalm and Terrebonne and Laval County Soulanges and Isle Perrot. Lake Two Mountains and Vaudreuil County Argenteuil. Ottawa River, Carillon to Pontiac Gatineau Lakes. | 72 88 54 90 90 60 20 60 23 6 45 15 130 | 560 640 525 400 500 125 60 490 1950 | 45 84 156 92 96 138 135 50 40 62 52 18 52 25 | 6 1 40 1 8 3 9 22 28 45 320 (A | 120 20 480 20 140 70 165 220 485 400 9500 ngling | 20 5 120 10 22 10 25 60 75 300 950 and t | 15 23 12 23 20 38 40 7 16 7 | do 1230 460 400 690 520 400 360 770 320 140 | 700 450 300 460 529 540 180 400 50 130 28 | 48 10 6 125 200 5 | 50 520 1120 100 40 |
| | Totals | 815 | 9470 | 1175 | 483 | 11620 | 1597 | 221 | 5360 | 3758 | 431 | 2355 |
| | Value \$ | | | | | | | | | | | |

^{*}Estimated. This also includes 100,000 pounds tom-cods, valued at \$5,000, caught in vicinity of Three Rivers.

† In No. 4 include 8 eel weirs valued at \$49,600.

Value of Fish, &c., within the District extending from Quebec City to Upper Quebec, for the Year 1898.

| | | | | | | SH. | of Fi | Kinds | | | | | |
|---------------------------------------|------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------|
| JE. | Total Valu | Mixed and coarse fish, lbs. | Catfish, lbs. | Perch, lbs. | Eels, lbs. | Sturgeon, Ibs. | Maskinonge, lbs. | Pike, lbs. | Pickerel, lbs. | Bass, 1bs. | Trout, lbs. | Whitefish, lbs. | Shad, lbs. |
| cts. | \$ | | | | | | | | | | | | |
| 00 10 10 10 10 10 10 10 | 8,523 9,706 6,097 *7,992 4,324 6,097 997 | 42900 5000 54000 74700 196000 23000 63500 158750 160000 20000 23100 8500 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 260000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 26000 2600 | 2000 250 24900 500 10.0 85000 10250 8500 1400 24000 | 6000 14320 50800 4000 11350 35750 400 7540 20000 4500 3000 | 2000 1000 74370 32500 15000 15500 20500 23330 6200 8000 1000 3200 1000 18000 | 500 500 3600 209100 12000 2350 15000 7000 6910 8000 18000 5000 3000 2550 4000 63450 | 1450 | 19270 17600 12000 9300 37350 42000 3000 2000 | 19700 48720 5650 13400 8000 9600 27200 2900 6200 5000 2950 3200 2950 3200 2950 3200 2000 5075 | 4800 7700 4900 9000 6000 2500 4200 8500 6900 1100 450 1400 2000 1000 46250 | 100300 9300 12000 50000 800 650 95300 | 17700 500 660 500 800 1105 3400 2500 | 5000 1950 7150 27400 15000 4500 400 |
| 70 | 134,142 | 1197400 | $-\frac{213650}{4273}$ | | $\frac{237100}{14226}$ | | $\frac{70930}{4255}$ | | 285970 14298 | $\frac{120800}{9664}$ | | 36365 2909 | 63600 3816 |

^{*}In No. 11 add 80,000 pounds of tom-cods valued at \$4,000.

RECAPITULATION

Or the Yield and Value of the Inland Fisheries of the Province of Quebec, (exclusive of Gulf Division) for 1898.

| Kinds of Fish. | Price. | Quantity. | Value. |
|-----------------------|--------|-----------|---------------|
| | 8 ets. | | \$ ets |
| almon Lbs. | 0 20 | 173,030 | 34,606 00 |
| Shad " | 0.06 | 144,725 | 8,683-50 |
| Herring, salted Brls. | 4 00 | 11,604 | 46,416 00 |
| " fresh Lbs. | 0 01 | 4.526,300 | 45,263 00 |
| Vhitefish | 0.08 | 72,675 | 5,814 00 |
| rout | 0.10 | 366,350 | 36,635 00 |
| Bass | 0.08 | 133,255 | 10,660 40 |
| Pickerel | 0.05 | 336,515 | 16,825 75 |
| Pike | 0 04 | 261,920 | 10,476 80 |
| Maskinonge | 0.06 | 70,930 | 4,255 86 |
| Sturgeon " | 0.06 | 421,370 | 25,282 20 |
| Eels " | 0.06 | 857,840 | 51,470 40 |
| Perch " | 0 03 | 211,560 | 6,346-80 |
| Sardines Brls. | 3 00 | 1,760 | 5,280 00 |
| Catfish Lbs. | 0 02 | 213,650 | 4,273 0 |
| Mixed and coarse fish | 0 01 | 3,345,560 | 33,455 6 |
| Cod | 0 05 | 255,600 | 12,780 0 |
| Fom cods | 0 05 | 80,000 | 4,000 0 |
| Halibut | 0 10 | 28,200 | 2,820 0 |
| Beluga skins No. | 4 00 | 452 | 1,808 0 |
| Seal skins " | 1 25 | 30 | 37 5 |
| Ouananiche Lbs. | 0.06 | 95,000 | 5,700 0 |
| Fish oils | 0 30 | 24,415 | 7,324 5 |
| Total for 1898 | | | 380,214 2 |
| ,, 1897 | | | 343,884-8 |
| Increase | | ! | 36,329 4 |

STATEMENT

OF Fishing Materials in the **Province of Quebec** during the Year 1898, (Gulf Division excluded).

| Articles. | Value. | 7 | Γotal Va | ılue. |
|----------------------------------------------------------------------------------------------|---------------------------------------|-----------|--------------------|-------|
| | \$ c | ts. | 8 | cts. |
| 1,231 fishing boats (2,246 men). 942 gill-nets (34,080 fathoms). 259 seines (6,120 fathoms). | 15,315 0 34,506 0 3,948 0 | Ю 🚶 | 53,769 | . 00 |
| 431 hoop-nets | $2,355 \ 0 \ 1,058 \ 0 \ 102,955 \ 0$ |)O 🗄 | 96,103 | . 00 |
| 59 freezers and ice-houses | | <u></u> i | $106,368 \\ 3,550$ | |
| Total value | | | 163,687 | 00 |

RECAPITULATION

Or the Yield and Value of the Fisheries in the whole Province of Quebec, for the Year 1898.

| | Quantity. | Price. | Value. | Total Value |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|---------------|---------------------------------------|----------------------|
| | | \$ cts. | \$ ets. | \$ ets |
| Salmon, fresh in ice | 836,401 216 | 0 20 15 00 | 167,280 20 3,240 00 | 150 500 0 |
| Herring, salted | 36,755 | 4 00. | 147,020 00 | 170,520 20 |
| freshLbs. | 4,825,3 0 | 0 01 | 48,253 00 | 1 |
| " smoked | 54,000 | 0 02 | 1,080 00 | 196,353 00 |
| Mackerel, salted Brls. | 6,497 | 15 00 | | 97,455 00 |
| obsters, canned Lbs. | 1,067,058 | 0 20 | 213,411 60 | |
| fresh | 201 | 5 00 | 1,005 00 | 214,416 66 |
| Cod, dried | 161,160 | 4 00 | 644,640 00 | 214,410 0 |
| green Lbs. | 255,600 | 0 05 | 12,780 00 | |
| tongues and sounds Brls. | 278 | 10 00 | 2,780 00 | 660,200 0 |
| Haddock, freshLbs. | 12,600 | 0 03 | 360 00 | 000,200 0 |
| " dried Cwt. | 2,563 | 3 00 | 7,689 00 | 1 |
| Take | 214 | 2 25 | | 8,049.06 481.5 |
| Ialibut Lbs. | 171,140 | 0 10 | | 17,114 0 |
| rout | 397,050 | 0 10 | | |
| inelts " | 351,292 | 0.05 | | |
| Vhitefish " | 72,675 | 0 08 | · | |
| Quaniniche | 95,000 | 0 06 | | |
| Pickerel | 336,515 $133,255$ | 0 05 | | 16,825 7 |
| Bass, (Achigan) | 144,725 | 0 06 | | 10,660 4 8,683 5 |
| Sels, fresh | 857,840 | 0.06 | 51,470 40 | 0,000 0 |
| salted Brls. | 217 | 10 00 | 2,170 00 | İ |
| T 1 | 401.950 | 0.00 | | 53,640 4 |
| turgeonLbs. | 421,370 70,930 | 0 06 | | |
| laskinonge | 261,920 | 0 04 | | |
| lounders | 30,500 | 0 05 | | 1,525 |
| om cod | 131,800 | 0 05 | | 6,590 0 |
| Perch | 211,560 | 0 03 | . | |
| atfish | 213,650 | 0 02 | | 4,273 (|
| ardines Brls. | 1,760 | 3 00 4 00 | | 1 11 000 0 |
| quid | 2,765 860 | 2 00 | 1,720 00 | 11,060 (|
| Sish, coarse and mixed | 3,345,560 | 0 01 | 33,455 60 | |
| The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s | 13,1710,000 | 0 01 | | 35,175 (|
| eal skins | 10,008 | 1 25 | | 12,510 0 |
| Seluga skins, (white whales) | 452 | 4 00 | | |
| ish oil | | 0 30 | | |
| " as bait | 33,793 41,183 | 1 50 0 50 | • • • • • • • • • • • • • • • • • • • | 50,689 E 21,091 E |
| - S. Marine | 12,750 | | 1 | |
| Total for 1898 | | | | |
| | | | | 1,737,011 2 |
| Increase | | · | | 24,429 1 |

RECAPITULATION

OF all Fishing Vessels, Boats, Nets, &c., employed in the whole Province of Quebec, 1898.

| Articles. | Value | e . | Tota | l. |
|--------------------------------------------------------------------------|-------------------|------------|----------|------|
| | * | cts. | ķ | cts. |
| 28 fishing vessels (1,119 tons; 163 men) | 21.250 172,039 | | | |
| 6,890 fishing boats (12,169 men). 10,931 gill-nets (277,506 fathoms). | | | | |
| 739 seines (24,757 fathoms) | | | | |
| 120 trap-nets | 33,585 | 00 | | |
| 697 weirs (brush or eels) | | | | |
| 431 hoop-nets | 2,355 | | | |
| 91 smelt nets | 3,585 $15,373$ | | | |
| hand lines and night lines | 11,800 | | | |
| 100 trawis | | | 540, 492 | 2 00 |
| 154 lobster canneries (2,769 hands) | 54,074 | 00 | , | |
| 62,470 lobster traps, lines, &c | | 00 | | |
| | | | 140,613 | 3 00 |
| 126 freezers and ice-houses | 7,640 | | | |
| 720 smoke and fish-houses | | | | |
| 5 smacks and steamers | | 00 | | |
| o shiecas and security | | | 205,38 | 4 00 |
| Total value | | | 886.489 | 9 00 |

APPENDIX No. 7.

MANITOBA.

REPORT ON THE FISHERIES OF MANITOBA FOR THE YEAR 1898, BY INSPECTOR F. W. COLCLEUGH.

SELKIRK, January 15, 1899.

Hon. Sir Louis H. Davies, K.C.M.G., Minister of Marine and Fisheries,

Sir,—I have the honour to submit herewith returns showing the number of fishermen, tugs, tonnage, &c., in my district in 1898, also the yield of the fisheries for the same period. These are not complete, inasmuch as they do not include the catch of some important firms, nor particulars of their plant, although I sent them blanks last December requesting the same. The overseer at Berens River also failed to give me any particulars.

You will observe a very decided increase in the catch of all kinds of fish excepting

whitefish and pickerel.

I would suggest, that in future all returns made by Fish Companies should be sworn to, as I find most of them attach very little importance to such matters and are not at all times accurate in their figures.

I know that the United States Government requires all such returns attested to

before a magistrate.

I would also suggest that no tishing of any kind be allowed during the close season for whitefish, as any one holding license for catching other kinds always claim to have caught the whitefish whilst they were fishing for pickerel or other sorts, and as the whitefish come to shallow water to spawn, many of them are caught in this way, and if a whitefish has remained in the meshes of a gill-net overnight it is much better taken out than returned to the waters.

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

F. W. COLCLEUGH,
Inspector of Fisheries.

63 VICTORIA, A. 1900

MANI

STATEMENT of the Number of Fishermen, Tugs, Boats, Nets, &c., and the Quantity

| | | | | | | Fis | ning ? | Илть | RIALS. | | | | | - | OTHER ED IN |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|--------------------------|----------------------------------|----------------------|------------------|-------------------------------------|----------------------|-------------------------------------------|----------------------|-------------|---------------|--------|-----------------------------|----------------------|
| | Districts, | | Tı | ıgs. | | Boats, | | | Gill Nets. | | Seines. | | ·s. | Freezer and Ice-house | |
| Number. | | Number. | Tonnage. | Value. | Men. | Number. | Value. | Men. | Fathoms. | Value. | Number. | Fathoms. | Value. | Number. | Value. |
| • | | | | 8 | | | ŝ | | | \$ | | | s | | s |
| 2 L | ake Winnipegosis, Dauphin and Waterhen River | 1 | 15 | | | 4 117 249 | i | 187 | 30000 22490 68580 | 3000 2200 7166 | | 33 132 | · | 4 | 1000 5700 2000 |
| 4 5 6 7 8 | Winnipeg— Ewing & Fryer Selkirk Fish Company Manitoba Fish Company William Robinson. Reid & Tait Fish Company Dominion Fish Company | $\begin{array}{c} 2 \\ 5 \\ 5 \\ 2 \end{array}$ | 259 586 681 316 | 12500 35100 33000 29200 | 12 31 25 15 | 5 8 5 5 | 300 1500 2400 1500 1325 | 15 24 15 15 | 10000 10000 10000 10000 10000 | 2000 2000 2000 |))) | | | 6 14 16 | 600 2980 |
| | Totals | 1 | | | | <u> </u> | | | | 21866 | 3 5 | 165 | 423 | 5 65 | 8930 |
| - | Values | | | | | | | | | | | | | | |

TOBA.

and Value of all Fish caught in the Province of Manitoba, for the Year 1898.

| Fixt Fish | | | | | | Kinds | or Ft | зн . | | | | | | | |
|------------------|---------------------|-----------------|-------------|----------------|------------|----------------|-------------|----------------|---------------|--------------------------------|------------------------|---------------|------------------|-----------|---------|
| a | iers nd arfs. | - | | | | | | | | rse fish, | cion, lbs. | | Тотл | | } |
| Number. | Value. | Whitefish, Ibs. | Trout, Ibs. | Pickerel, Ibs. | Pike, lbs. | Sturgeon, Ibs. | Perch, Ibs. | Tullibee, lbs. | Catfish, Ibs. | Mixed and coarse fish. Ibs. | Home consumption, lbs. | Caviare, lbs. | VALI | ъ. | Number. |
| i | ŝ | | | | | | | ; | | | | • | 8 , | ets. | |
| 2 | 200 | 565000 | 10000 | 270000 | 100000 | | 10000 | 1000 | • • • • | 1450000 | 250000 | : ' | 53,200 | 00 | 1 |
| 8 | 1300 | 259100 | | 142000 | 142300 | | | 81200 | | 102200 | 147000 | · | 28,169 | 00 | 2 |
| | | 90020 | ••• | 465700 | 223050 | 135900 | 50150 | 219600 | 101000 | 412200 | 555100 | 1230 | 38,087 | 00 | 3 |
| 2 1 2 4 | 100 350 | 72299 461952 | | 349704 7418 | 122878 | 214079 | 15640 | 1820 | 26411 | 730 | | 5 43 0 | 37,424 23,320 | 52 14 | 4 |
| 2 | 550 | 628443 | | 7840 | 2275 | 35040 | | | 18476 | | | 930 | 33,349 | | 6 |
| | 1900 | 628443 | | 7840 | | 35040 | | | 18476 | | | - 930 | 33 349 | | 7 |
| 4 | 460 | 587682 68202 | | 7989 98931 | | | | ' | | | | | 30,912 7,616 | | 8 9 |
| 23 | 4900 | 3361141 | 10000 | 1357422 | 593278 | 447510 | 75790 | 303620 | 164363 | 1965130 | 952100 | 8520 | | . | |
| | | 168057 | 500 | 40723 | 11866 | 22375 | 758 | 6072 | 1644 | 19651 | 9521 | 4260 | 285,427 | 00 | |

APPENDIX No. 8.

NORTH-WEST TERRITORIES

REPORT ON THE FISHERIES OF THE NORTH-WEST TERRITORIES FOR THE YEAR 1898, BY INSPECTOR E. W. MILLER.

QU'APPELLE, N.W.T., January 2, 1899.

The Hon, Sir Louis H. Davies, K.C.M.G., Minister of Marine and Fisheries. Ottawa.

SIR.—I have the honour to submit the following report on the fisheries of the

North-west Territories for the year 1898.

In the waters more immediately under the supervision of officers of your department, the supply of fish shows in most instances no signs of shrinkage. From some of the lakes in the more settled districts a smaller catch is reported, but this would appear to be due more to a less amount of fishing having been done than to a

scarcity of fish.

At Lac la Biche and Lac Ste. Anne, where, a few years ago, the exhaustion of the lakes threatened starvation almost to the resident half-breeds, the recovery noted last year has been well maintained, and the fishermen are now convinced of the good results following the observance of a close season. Only a few of the smaller lakes in the Territories are so situated as to permit of fish being marketed in the summer season; those that are offered meet with a ready sale at good prices. A number of fishermen worked at the lakes north of Prince Albert in the early part of this year, their fish being bought and exported to the United States. various causes the undertaking did not prove remunerative to the buyer, and there is no probability of a similar industry being carried on this winter. Under more favourable circumstances and with better and cheaper modes of transport there appears no good reason why a successful attempt should not be made to supply the towns in Assiniboia with fish from these lakes.

In the main, however, the lakes north of the Saskatchewan River must be regarded more as sources of food to the resident half-breeds and Indians than fitting objects for mercantile exploitation, and it would be inadvisable to imperil the permanence of the fishery by permitting too great a strain to be placed on it, even if it were of temporary advantage to the native residents. The opening up of an export business in sturgeon and its products, which has been attempted on a small scale on the Lower Saskatchewan River and Codar Lake this year, must be looked at from this view, particularly in face of the rapid disappearance of the sturgeon in other places where it was formerly plentiful. Until such times that the dependence of the native population in this district on fish for their main supply of food becomes very much less than it is at present, it would be inexpedient to encourage fishing for export.

The rapid multiplication of irrigation ditches in Southern Alberta has called renewed attention to the danger of the extinction of the trout in the mountain streams from which their waters are principally drawn. A more rigid enforcement of the clause of the Fishery Act in regard to the screening of ditches has been recommended, as in spite of the objections raised by some irrigators to the use of screens, I consider they can be used in most instances without serious detriment to

the ditch and must certainly prevent a great destruction of fish.

Objections have been raised in some districts to the length of the close season for whitefish, but while the spawning time of this fish unquestionably varies considerably in different lakes, the season as now fixed is not longer than is needed for the effectual maintenance of a full supply of this valuable fish. The ease with which they may be netted on their shallow spawning grounds is the real ground on which the request for an earlier opening of the fishery is based.

In some of the smaller fish lakes, the enforcement of a close season for pike and mullet would seem to have led to an undue multiplication of the coarser fish at the expense of the more valuable species. It may therefor become advisable in the near future to suspend the close season for pike, &c., in certain waters, more especially those which are favourably situated for being restocked with whitefish fry. The encroachment of the pike has also been much marked in the trout streams of the western part of the Territories. The coarser fish here are but little fished for, and I am of opinion that no restriction should be placed on their capture in any of the Albertan tributaries of the South Saskatchewan River.

A change in the close season established for the protection of speckled trout has recently been recommended. At present the most esteemed variety found in the Territories, the Rainbow Trout (Salmo mykis) is sacrificed to some extent in favour of the Bull Trout (Salvalinus malma). The proposed alteration, while giving an equal period of protection, favours the more valued fish and prolongs the open season at a

time when the streams are in the best shape for fishing.

It was not found possible to place fry in any North-west lakes during the past year, there being no available source of supply. Much disappointment has subsequently been felt in some districts, the condition of the water, &c., having been very favourable. In Assiniboia in particular many lakes which had become so lowered by the series of dry seasons as to almost lose their power to sustain fish life, promise to soon recover their former levels, and it is very desirable that they should be stocked with fry so as to accelerate the coming of the time when they will again produce a fair supply of fish for the benefit of the surrounding settlers. The establishment of a fish hatchery in the Territories, if only on a small scale, is therefore a matter calling for early consideration.

During the past year the regulations are reported to have been well observed in all districts over which overseers and guardians have been appointed. No complaints have been received against any licensed fishermen though a number of nets have been seized, the property of undiscoverable owners, being either of illegal mesh or set in

close season.

From the commissioner, officers and men of the North-west Mounted Police much valuable assistance has been received, both in bringing to my notice infractions of the regulations and the extension of travelling facilities where possible.

SYNOPSIS OF THE REPORTS OF THE OVERSEERS AND GUARDIANS IN THE DISTRICTS SPECIFIED.

PRINCE ALBERT.

The fisheries in this district are reported by Overseer Robertson as being in good condition in general. The fishing for export carried on at Candle Lake last winter proved unsuccessful from a variety of causes. The catch was not very good and the difficulties of transport were greater than usual owing to the heavy snowfall. In consequence of this failure there will probably be no buyers for export on Prince Albert market this winter and the fishery will be confined to purely local requirements. The overseer states that much more fishing for sale would be carried on if the close season terminated early enough to permit fishing to begin before the ice gets thick. At Beaver River and Green Lake where guardian Anderson is stationed during the whitefish close season, the catch was rather smaller than usual. This was due to some of the Indians having placed nets right across the former stream early in the fall, thus preventing the fish reaching their usual spawning ground. Steps will be taken to prevent this hurtful practice being repeated next year. Forty-eight

ordinary licenses were issued and fifty-five free permits to treaty Indians. One net of illegal mesh was seized at Crooked Lake but in general the regulations were well carried out.

CALGARY AND MCLEOD DISTRICT.

The building of the Crow's Nest Railway caused an increased amount of fishing to be done in the Waterton and Crow's Nest lakes, eight licensed fishermen being at work with nets, who were able to dispose of their catch of whitefish and lake trout at good prices. About 2000 lbs., of lake trout were taken from Lake Minniwankan, or Devil's Lake, near Banff. These fish were caught by hook and line in deep water. One fish weighed 29 lbs., but the average is about 6 lbs. Mountain whitefish locally called grayling, are also taken, but in limited numbers as no netting is done. Sprey Lakes are situated about eighteen miles from Canmore on the C.P.R. main line and a pack trail has been made to them by the enterprise of the miners of that town, many of whom are enthusiastic fishermen. These lakes are also much resorted to by the Stony Indians. Lake and bull trout form the main catch. The other fishing in this district is confined almost entirely to the angling for speckled trout in the many beautiful streams descending from the Rockies. The protection of this fishery from the devastating effects of the irrigation ditches, of which so many are now being constructed, is earnestly desired by the fishermen of the district, and a detailed report on this important question, in which the strictest enforcement of the fishery regulation requiring screens to be placed at the head gates of all ditches. is strongly recommended.

Guardian Millar of Sheep Creek reports that there was more water in the rivers than for some years past and that the catches with rod and line were good. He states that a great destruction of fish is caused by the unscreened ditches, the law in this respect being but meagerly observed. The alteration of the close season fixed for speckled trout would be welcomed by nearly all those interested in this fishing, the Cutthroat or Rainbow trout which is the most numerous and most esteemed variety both for sport and food, being in prime condition in September and October

while the close season at present begins on September 15.

EDMONTON DISTRICT.

In this district Overseer Young states that the efforts of the department to maintain a good supply of fish are becoming better appreciated both by the general public and the fishermen more directly affected. This year it was found possible to materially reduce the catch of fish allowed to be taken under special permit during the close season, it being confined to the pressing daily needs of the actually resident half breeds and Indians. The results of the enforcement of a close season at Lac Ste. Anne and Lac la Biche for the last three or four years was shown very satisfactorily by the great improvement in the fisheries at those points. At the latter lake 2,000 fish were taken in three nights with 150 fathoms of net. The summer fishing was also very good. White Whale Lake which was formerly neglected by the fishermen on account of the poor quality of the whitefish there, has done well this year, there being a marked improvement in the fish.

Fifty-eight licensed fishermen were at work on Pigeon Lake where fishing is carried on both summer and winter, the towns on the Calgary and Edmonton Railway being mostly supplied from this source. A resident guardian is employed here who reports that the regulations are very willingly obeyed and that there is no falling off in either the quality or quantity of the fish taken in the open season.

From Saddle Lake, Floating Stone and Good Fish lakes, reports are not so favourable. These lakes are near Indian reserves, the close seasons are not properly observed and fish are consequently becoming scarce. It will be necessary to put these lakes under more direct supervision than hitherto.

The water level in the lakes of this district is stated to be lower than at any time since 1870, and this has had disastrous effect on some of the shallower lakes. In

Beaver Lake, for example where pike and pickerel were formerly extremely abundant the fish have almost disappeared. There is but little river fishing done in this district.

BATTLEFORD DISTRICT.

The population around the fishing lakes of this district appear to be even more nomadic than the bulk of their kinsmen and there have been but a comparatively small number of resident families living near them this year. Jackfish Lake, about thirty miles from Battleford, swarms with the fish of that name which are of great size and of superior quality. The whitefish found here are held in poor estimation and the catch is small. At Turtle Lake, thirty miles further north, the whitefish are extremely good and it is here that the bulk of the fish supply of the district is taken. Guardian Gagné reports, however, that the catch this year for some unknown reason was very disappointing.

The Battle River formerly yielded a good supply of sturgeon and goldeyes; this fishery has, however, very much fallen off, partly owing to successive seasons of low water, but also to the blocking of the river by basket traps. It is hoped that the

recent appointment of a guardian here will prevent this in future.

LONG LAKE DISTRICT.

Overseer Foster, of Silton, reports that in consequence of the good crops in this district, the fishery was not so largely resorted to as in the previous year. The regular fishermen had a good catch of exceptionally fine whitefish in the winter season. Little fishing is done in the hot weather, though it would seem that with a proper supply of ice, a profitable trade could be carried on. This fall the whitefish were observed in great numbers on their old spawning grounds at the south end of the lake, which had been deserted for some time. Owing to the heavy rainfall the lake which has long been steadily shrinking, regained the level marked five years since, and there was a great abundance of fish food. One net was seized here for infringement of the regulations.

QU'APPELLE LAKES.

Guardian Leader reports a large falling off in the catch of true whitefish in these lakes, attributable in his opinion to the change of ground by the fish and the failure of the fishermen to locate them. Continuous rough weather much impeded the summer fishery in the deeper water.

The supply of tullibee, a fish which here is considered but little inferior to the whitefish, is well maintained while pike, pickerel and suckers seem to be becoming superabundant. The upper lakes are a great resort of wild duck in the fall and they undoubtedly destroy a great quantity of whitefish spawn. Bluebills have been killed so gorged that the spawn would run from their mouth when help up.

Great numbers of coarse fish run up the small creeks entering the lakes as soon as they begin to run in the spring. It is considered advisable to permit these fish to be taken directly the streams begin to fall, as they are otherwise left stranded to

A very severe storm in June caused the flank of the Katepwe dam to be again turned and the level of the lakes was considerably lowered. The ample rainfall has however maintained the lake water in first-class condition, and very few dead fish were noted this year. This dam has now been rebuilt by the North-west Government on such a scale that it might be expected to withstand all reasonable pressure, while its height renders the further maintenance of a second dam at Fort Qu'Appelle unnecessary.

CROOKED AND ROUND LAKES.

These lakes though in first-class shape as regards water, remain in a very unsatisfactory state in regard to supply of fish. Whitefish are practically extinct though once very plentiful here. The lakes require restocking with fry in the worst way, and I believe the Indians on the adjoining reserves are now sufficiently convinced of the evils of their former overfishing to willingly keep a proper close season in future.

Guardian Fitzgerald removed a great number of fish traps from the Qu'Appelle River during the summer, but it is comparatively an easy matter for the constructors to escape detection. It is probable that a large quantity of fish is taken from the stream by this means.

EAGLE QUILL LAKE.

Guardian Goodwin reports that there has been a good average catch of whitefish at this lake, which shows no sign of exhaustion. New dams have been built on the Swift Current Creek at Swift Current and Waldeck which are provided with good fishways. Considerable angling is done along the South Saskatchewan River in this district, the Buffalo fish, weighing from three to six pounds, being very plentiful and much esteemed for eating. The regulations are reported as well observed.

MOOSE MOUNTAIN LAKES.

These lakes are situated in the south-east of Assiniboia and are well stocked with pike, pickerel, &c., but contain no whitefish. Three licenses for nets were issued but the greater part of the fishing is done by hook and line. A great number of people resort to these lakes in the summer, and as several complaints have been made in regard to illegal netting, &c., it will probably be necessary to appoint a guardian next summer.

CUMBERLAND DISTRICT.

No resident overseer or guardian has as yet been appointed in this district but it is becoming apparent that such an officer will soon be urgently required. Fishing in the past has been confined to the food requirements of the resident population, and it is doubtful whether any catchin excess of this amount could long be sustained by the fisheries without threatening an early depletion. This year a large quantity of sturgeon has been exported via Grand Rapids, and there has also been a small manufacture of caviare. In both cases without a proper supply of ice considerable waste of fish is likely. The progress of this business will require to be closely watched so that the best interests of the whole body of residents in the district may be conserved.

The usual statements giving statistics of yield and value of the fisheries in the North-west Territories are hereto appended.

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

> E. W. MILLER, Inspector of Fisheries, N. W.T.

NORTH-WEST TERRITORIES.

RETURN of the Number and Value of Boats, the Quantity and Value of Fishing Materials, &c., in the District of Qu'Appelle, North-west Territories, for the Year 1898.

| | | FISHING MATERIALS. | | | | | | | | | | |
|---------|---------------------------------------------------------------------------------------------|------------------------|----------------------------------|----------------------------|----------------------------------|------------------------------------|---------|----------|--------|--|--|--|
| | Districts. | Boats. | | Gi | Gill Nets. | | | Seines. | | | | |
| Number. | | Number. | Value. | Number. | Fathoms. | Value. | Number. | Fathoms. | Value. | | | |
| 4 | Long Lake. Qu'Appelle Lakes Crooked and Round Lakes. Moose Mountain Lakes Eagle Quill Lakes | 6 11 4 4 3 | 8 60 315 40 60 30 | 60 36 20 10 12 | 1500 900 500 300 250 | 8 360 225 120 72 75 | | 50 | | | | |
| | | 28 | 505 | 138 | 3450 | 852 | 1 | 50 | 50 | | | |

RETURN of the Kinds and Quantity of Fish in the District of Qu'Appelle, Northwest Territories, for the Year 1898.

| Number. | Districts. | Whitefish, lbs. | Pickerel, Ilm. | Pike, lbs. | Tullibee, lbs. | Mixed and coarse fish, lbs | Total Valur. |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------------------------|---------------------------------|----------------|-----------------------------------------|--------------------------------------------------------------------------|
| | | | | | | | \$ cts. |
| 2 3 4 5 6 | Long Lake. Qu'Appelle Lakes Crooked snd Round Lakes. Moose Mountain Lakes Eagle Quill Lakes Fishing Lakes (N.) Qu'Appelle River. Totals. | 3000 300 6500 | 6000 1000 8000 16000 | 10000 3000 12000 20000 | 15000 | 12000 6000 5000 20000 40000 | 1,560 00 1,360 00 605 00 440 00 465 00 680 00 1,280 00 |
| | Values | | | | | j | 6,390 0 |

RETURN of the Number and Value of Boats, the Quantity and Value of Fishing Materials, &c., in the District of Edmonton, North-west Territories, for the Year 1898.

| | | FISHING MATERIALS. | | | | | | | | |
|-----------------------|------------------------------------------------------------------------------------------|--------------------|----------------------------|-------------------------------------------|-------------------------------------|--------------------------------|--|--|--|--|
| | Districts | Bos | ıts. | G | s. | | | | | |
| Number. | | Number. | Value. | Number. | Fathoms, | Value. | | | | |
| 2 3 4 5 6 | Lac la Biche Baptiste Lake Lac la Nonne Heart Lake Beaver Lake Lac Ste. Anne Pigeon Lake | 45 30 20 | 8 675 450 300 | 190 40 30 40 40 150 180 | 1200 900 1200 1200 4500 | \$ 760 160 120 160 160 600 720 | | | | |
| | Total | 95 | 1425 | 670 | 20100 | 268 | | | | |

RETURN showing the Kinds and Quantity of Fish in the District of Edmonton, North-west Territories, for the Year 1898.

| Districts. | | 1 | | | KINDS OF FISH. | | | | | | | | | |
|---------------------------------------------------------------------------------|---------------------------------|----------------|------------|-------------|----------------|--------------------------------|-------------------------------------------------|--|--|--|--|--|--|--|
| | Whitefish, lbs. | Pickerel, lbs. | Pike, lbs. | Perch, lbs. | Tullibee, lbs. | Mixed and coarse fish, Ibs. | TOTAL VALUE. | | | | | | | |
| 1 Lac la Biche 2 Beaver Lake 3 Island Lake | 21000 3000 | | | | 5000 | 10000 5000 | \$ cts 6,900 00 1,100 00 150 00 | | | | | | | |
| 4 Stony Lake 6 Long Lake 7 Pigeon Lake 8 White Whale Lake | 5000 30000 50000 50000 | | | 1000 | 5000 | 1000 | 250 0 1,550 0 110 0 2,510 0 2,500 0 | | | | | | | |
| 9 Lac Ste. Anne 0 Baptiste Lake 1 Lac la Nonne 2 Little Whitefish Lake | 2000 | | | | 8000 | 2000 | 1,930 0 160 0 120 0 50 0 | | | | | | | |
| Totals Values | 297000 14850 | | 45000 | 1000 | 18000 | 25000 . | | | | | | | | |

RETURN of the Number and Value of Boats, the Quantity and Value of Fishing Materials, &c., in the District of Prince Albert, North-west Territories, for the Year 1898.

| | |) | Fishing | ; Мат | ERIALS. | |
|------------------|------------------------------------------------------------------------------------------------|----------------------|--------------------|--------------------------|------------------------------|---------------------|
| | Districts. | Boa | ats. | Gill Nets. | | |
| Number. | | Number. | Value. | Number. | Fathoms. | Value. |
| 1 2 3 4 | Green Lake Assiniboine Lake Deer, Trout, Montreal and Candle Lakes Saskatchewan River | 20 15 30 40 | \$ 300 250 400 400 | 100 200 350 100 | 2500 5000 8750 1500 | \$ 500 800 1400 350 |
| | Totals | 105 | 1350 | 750 | 17750 | 3050 |

RETURN showing the Kinds and Quantity of Fish in the District of Prince Albert, North-west Territories, for the Year 1898.

| | : | | | K | CINDS C | on Fisi | i. | | | |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------|---------------------------------------|----------------------------------------------------------------------------|----------------|-------------|----------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| / Number. | Districts. | Whitefish, Ibs. | Trout, lbs. | Pickerel, Ibs. | Pike, Ilıs. | Sturgeon, 1bs. | Perch, 1bs. | Tullibee, lbs. | Mixed and coarse fish, lbs. | TOTAL VALUE. |
| 3 4 5 6 7 8 9 10 11 | Assiniboine Lake. Devil's Lake Pelican Lake. Doré and Dog Lakes. Montreal and Bittern Lakes. Sturgeon Lake. Candle, Deer and Trout Lakes. Lakes south of Saskatchewan River Saskatchewan River | 10000 8000 40000 25000 3000 20000 80000 3000 434000 | 10000 40000 | 5000 5000 4000 4000 78000 | 4000 12000 60000 40000 6000 15000 3000 4000 264000 | 40000 | 800 | 10000 | 25000 5000 4000 5000 25000 10000 4000 5000 15000 98000 | \$ cts 6,000 00 8,600 00 2,350 00 690 00 3,450 00 2,150 00 6,450 00 238 00 2,500 00 |

^{*} Exported (dressed).

¹¹a - 13

RECAPITULATION.

RETURN of the Number of Boats, Nets, &., and the Quantity and Value of all Fish caught in the North-west Territories, for the Year 1898.

| | | Fisi | HING M | ATERIA | ALS. | |
|--------------------------------------------------------------------------------------------------|-----------------|--------------|--------|------------------|-------------|-------------------------------|
| Districts. |] | Boats. | | Gill Nets. | | |
| Number. | Number. | Value. | Men. | Number. | Fathones. | Value. |
| 1 Qu'Appelle 2 Macleod 3 Edmonton 4 Battleford 5 Prince Albert 6 Cumberland and other districts. | 10 95 105 | 1425 1350 | | 18 750 670 | 540 20100 | \$ 852 180 2680 3050 |
| Totals | 238 | 3480 | 630 | 1576 | 41840 | 6682 |

| | | | Kr | NDS OF 1 | Fish. | | | | |
|-----------------------------------------------------------------------------------------------|-------------------------------------------------------|---------------------------------|------------------------------------|-------------------------------------------------------|----------------|-------------|----------------|-------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Districts. | Whitefish, lbs. | Trout, lbs. | Pickerel, lbs. | Pike, lbs. | Sturgeon, lbs. | Perch, Ibs. | Tullibee, lbs. | Mixed and coarse fish, lbs. | TOTAL VALUE, |
| | | | | | | | | | \$ ets. |
| 1 Qu'Appelle 2 Macleod 3 Edmonton 4 Battleford 5 Prince Albert 6 Cumberland & other districts | 31800 8000 297000 40000 434000 3500000 | 40000 4000 50000 20000 | 32000 20000 78000 1000000 | 85000 15000 45000 30000 264000 1500000 | 1000 40000 | | 18000 10000 | 106000 10000 25000 75000 98000 1500000 | $\begin{array}{c} 6,390 & 00 \\ 2,800 & 00 \\ 17,330 & 00 \\ 4,400 & 00 \\ 35,008 & 00 \\ 262,000 & 00 \end{array}$ |
| Totals | 4310800 | 114000 | 1186000 | 1939000 | 241000 | 1800 | 106000 | 1814000 | |
| Value | 215540 | 5700 | 35580 | 38780 | 12050 | 18 | 2120 | 18140 | 327,928 00 |

RECAPITULATION

Or the Yield and Value of the Fisheries of Manitoba and the North-west Territories, for the Year 1898.

| Kinds of Fish. | Quantity. | Value. |
|--------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| , | Lbs. | * |
| Whitefish Pickerel. Pike. Perch Sturgeon Caviare. Trut Tullibee Catrish Coarse fish. Home consumption. | 7,671,941 2,543,422 2,532,278 77,591 688,510 8,520 124,000 409,620 164,363 3,779,130 952,100 | 383,597 76,303 50,646 776 34,425 4,260 6,200 8,192 1,644 37,791 9,521 |
| Total for 1898 | | 613,355 638,415 |
| Decrease | | 25,060 |

RECAPITULATION

OF the Number of Tugs, Boats, Nets, &c., used in Manitoba and North-west Territories.

| | 8 |
|----------------------------------------------------------------------------------------------------------------------------|-----------------------|
| 17 fishing tugs (1,885 tons; 97 men) 633 fishing boats (1,232 men). 12,910 rathoms gill-nets. 165 fathoms seines. | 115,0 17,8 28,8 |
| 165 fathoms seines 65 freezers 23 fishing piers | 89,; 4,9 |

APPENDIX No. 9.

BRITISH COLUMBIA.

REPORT ON THE FISHERIES OF BRITISH COLUMBIA FOR THE YEAR 1898, BY INSPECTOR JOHN McNAB.

NEW WESTMINSTER, B.C., January 14, 1899.

Hon. Sir Louis H. Davies, K.C.M.G., Minister of Marine and Fisheries, Ottawa.

Sir,—I have the honour to submit my annual report of the fisheries of British Columbia, for the year 1898, with statistical statement of yield and value of products, and of capital invested in the several branches of the fishing industry, appended.

A comparison with the returns of the last three years shows a large falling off in value of products, which is altogether owing to the small pack of salmon put up on the Fraser River, amounting to but 264,2 5 cases, as compared with 432,920 cases in 1895, 375,344 cases in 1896, and 879,116 cases in 1897.

The total value of products for 1898 amounts to \$3,713,101.16; in 1897 the

amount was \$6,138,864.96.

Large fluctuations from year to year, in the catch of all varieties of fish, have always been common, and are not to be considered ominous of permanent failure, or depletion of the varieties affected; except the conditions affecting the life and propagation of the species have been changed, or subject to unfavourable conditions. Unfortunately, such has become the case with regard to the salmon of the Fraser River. It is the opinion of every one who, from observation and study of the subject is in a position to form an opinion thereon, that the Fraser River is the breeding place and nursery of practically all the sockeye salmon that enter the Gulf ef Georgia by way of the Straits of Juan de Fuca. Mr. A. C. Little, Fish Commissioner for the State of Washington, a gentleman who is well qualified to form an opinion, has stated that 'his investigation has led him to feel certain that from 75 to 90 per cent of all sockeye salmon caught in the Sound, are Fraser River Mr. Little's estimate is none too large. In my opinion practically all the sockeyes, which frequent the waters mentioned, are Fraser River fish. Now, when it is considered that the Juan de Fuca Straits and all the waters between its entrance and the mouth of the Fraser River, are practically an estuary of the Fraser, the obstructing of every available place and channel, with gear, and appliances, so devised as to kill, or lead to the destruction of salmon of all sizes, which, of necessity, must come into contact therewith, when, in accordance with the law of their nature, they are seeking to enter their native rivers, in order to propagate their species,—it is apparent that, unless some protective measures are enforced to restrain the cupidity of the fishermen, the future of the salmon fishing industry of the Fraser River and State of Washington as well, is menaced.

Another source of danger to the salmon of the Fraser River consists in the overflow of sand and clay, from the large hydraulic mining enterprises, on the upper waters of the Fraser, and its affluents, which affect some very important spawning grounds, by the debris, or tailings, overflowing or covering the gravel beds, and also by dams built across rivers, notably a dam across the south fork of the Quesnelle

River, formerly an important spawning place for salmon, but from which they are now excluded.

The catch of sturgeon in the Fraser River and lakes has also fallen off; in order to prevent their depletion an annual close time of four months, from the 15th of May to the 15th of September, is recommended.

All the halibut caught for exportation, are handled and shipped to eastern market by the New England Fish Company, operating from Vancouver. Their exports for 1898 amounted to 1,200,000 pounds. Halibut of fine quality are found in immense quantities in the vicinity of the northern coast and islands. The fish are brought to Vancouver from the fishing grounds in steamers owned by the company, and averaged from 80,000 to 100,000 pounds each trip, which are caught in a few days when the weather is favourable. Large quantities of halibut are also caught in the northern waters of British Columbia by United States fishermen.

A new feature in the fishing industry this season was the salting for shipment to Japan of 4,000,000 pounds of dog salmon (O. Keta) by Japanese fishermen. The fish were mossly caught by fishermen when fishing for cohoes for the canners, and bought by the Japs. Formerly this class of fish when caught were allowed to go to waste.

All other varieties of salt water fish, varied and abundant as they are, are caught in sufficient quantities only to supply the local demand, with the exception of herring, which are being smoked or kippered in considerable quantities and find a ready market in all sections of the interior as well as in the cities; this is a growing industry.

The large increase of population in the interior of the province, consequent upon the development of the mining industry, has created a demand for a large quantity of fish, which is supplied partly from the state of Washington via Spokane, and partly from the lakes in the interior, from which considerable quantities of trout, char, lake herring, &c., are taken, but it is impossible to obtain anything like correct returns of quantities.

The larger lakes in the northern parts of the province are known to abound with trout and whitefish of fine quality, and several commercial fisheries are likely to be established there during 1899.

A company having good prospects of permanent success entered upon the manufacture of oil and fish guano from offal supplied by the canners on the Fraser River. Their output of oil was 12,000 gallons and about 200 tons of guano.

Of the lobeters planted in British Columbia waters, nothing is known, but it does

not follow that they may not be doing well.

The oysters planted in one locality, in Oyster Harbour, where there was an opportunity to protect them from their natural enemies—starfish—are apparently doing well, but it is not yet apparent that they are propagating.

Whitefish have been reported by several reliable men as having been seen by them in Coquitlam and Harrison Lakes. In October next I will endeavour to secure some by netting, for the purpose of ascertaining their size and quality.

My guardians, from the districts of Rivers Inlet, Skeena and Naas, report a prosperous season's fishing, which the returns verify, and that the regulations were well observed, and enforced without friction. In the Fraser River district the want of a suitable steamer to patrol the waters outside the Fraser River, in Howe Sound, and the Gulf of Georgia, was seriously felt; without a suitable boat, unlicensed fishermen, with illegal gear, can follow their calling with impunity, they being beyond my reach and that of my officers.

All of which is respectfully submitted.

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

JOHN McNAB, Inspector of Fisheries for British Columbia.

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A.—BRITISH COLUMBIA

| | | | | Cre | ws. | Boa | тѕ. | British C Coa | |
|--------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|----------------------------------------------------|---------------------------------------------|--------------------------------------------|-------------------------------------------------------|--------------------------------------|---------------------------------------------------|----------------------------------------------------|
| License No. | Vessels. | Masters. | Tons. | Whites. | Indians. | Boats. | Canors. | Males. | Females. |
| 38 12 9 14 10 8 23 15 | Arietes Beatrice Carrie C. W C. D. Rand | M. White. J. F. Noël G. Heater R. A. Cavender F. Cole & W. D. Byers W. Heater M. Foley, H. Blakstad M. Keefe | 96 97 75 75 86 66 92 51 49 | 22 9 6 23 8 5 6 8 6 | 20 18 30 16 26 22 20 | 6 2 7 7 2 1 2 2 1 1 1 1 1 1 | 10 9 15 8 13 11 10 | 151 | 131 343 304 159 163 83 91 240 |
| 36 17 | Diana | J. G. Searle F. W. Gilbert | 50 87 | 23 | • • • • | 6 | | 16 | 14 |
| 22 3 | Dora Sieward | H. F. Sieward D. McPhee | 93 | 10 6 | 34 20 | 2 2 | 17 | 89 84 | 220 257 |
| 21 25 | Enterprise | J. W. Todd L. McLean | İ | 6 6 | 28 31 | 2 | 13 15 | 89 179 | 220 152 |
| 1 24 28 | Geneva Halzie Ida Ella | Wm. O'Leary. J. Daley H. V. Hughes | 93 72 | 24 7 6 | $\begin{array}{c} \\ 24 \\ 25 \end{array}$ | 8 2 2 | 12 12 | . 390 179 117 | 502 85 90 |
| 2 5 4 19 26 31 29 13 | Libbie Mary Ellen Mary Taylor Mermaid Minnte Ocean Bell Ocean Rover Otto Penelope | Victor Jackobsen A. McDougall | 43 76 46 | \$ 29 8 6 10 6 7 6 8 6 | 14 | 2 2 2 2 2 2 2 | 7 8 11 10 11 8 14 | 204 129 200 52 123 66 79 217 | 57 147 338 165 148 61 69 242 |
| 35 | Pioneer | | ! ! | | - ,. | | | | |
| 16 6 | Saucy Lass Teresa | W. D. McDougall G. Meyer | 38 63 | 6 8 | 14 23 | 2 | 7 13 | 85 42 | 77 256 |
| 20 | Umbria | J. W. Pippett & C. Campbell | 99 | 8 | 30 | 2 | 15 | 117 | 169 |
| 18 37 32 30 | Victoria Viva Walter L. Rich Zillah May Catch of Indians in canoes | S. Balcam | 84 66 | 7 7 6 7 | 20 21 26 22 | 2 2 2 2 2 | 10 10 13 11 | 169 144 95 | 168 86 86 |

Sealing Report, 1898.

| | ę, | • | | | тен. | RS OF CA | ARTICULA | P |
|-----------------------------------------------------------------------------------------|--------------------------|---------------|-------------|---------------------------------------|-----------------------------------------|---------------------------------------|----------|---------------------------------------|
| | kins Brand | | g Sea. | Behrin | Copper nds. | Vicinity Isla | Coast. | Japan |
| Remarks. | Number of Skins Branded. | Totals. | Females. | Males. | Females. | Males. | Females. | Males. |
| | ! : ! | 378 | 319 | 59 | | | | |
| | | 185 1,117 | 420 | 274 | | | | |
| | | 706 643 | 211 | 203 | | | | |
| | | 581 657 | 125 | 126 302 | | | | • • • • • • • • |
| | | 242 | 167 | | | | | |
| Boarded Sept. 8 by Lt. H. G. Si H.M.S. "Pheasant." | 1 | 961 | 43 8 | 186 | | | | · · · · · · · · · |
| Boarded Aug. 12 by officers H.M.S. "Pheasant." | | 327 | 201 | 126 | | | | • • • • • • • |
| Boarded Sept. 26 by Lt. R. D. S | • • • • • | 440 1,114 | 361 | 144 | 30 | 20 | 159 | 201 |
| H.M.S. "Pheasant." | | 341 | | | ! | ••• | | |
| Boarded Aug. 12 by E. K. A., H. | | 901 | 317 | 275 | | | | • • • • • • • • |
| "Pheasant." Boarded Aug. 13 by R. D. S H.M.S. "Pheasant." | | 769 | 188 | 250 | | : | | |
| n.m.s. "Pheasant. | | 892 | | | | | | • • • • • • |
| Boarded Aug. 13 by E. K. A., H. | | 1,024 641 | 422 198 | 338 236 | | | | • • • • • • • • • • • • • • • • • • • |
| "Pheasant." | į | 491 | 114 | 116 | | | | |
| | | 276 | 114 | 110 | | | | ••••• |
| | | 1,257 $1,473$ | 468 860 | 251 396 | | | | •••• |
| | | 664 | 160 | 233 | | · · · · · · · · · · · · · · · · · · · | | • • • • • • • • • • • • • • • • • • • |
| _ | 1 | 702 485 | 271 144 | 304 193 | ļ | | | |
| Boarded Aug. 26 by R. D. S H.M.S. "Pheasant." | 1 | 1,249 | 414 | 376 | • • • • • • • • • • • • • • • • • • • • | · | | |
| Boarded Aug. 13 by R. D. S H.M.S. "Pheasant." | | 1,037 | 295 | 210 | • • • • • • • • • • • • • • • • • • • • | ; • • • • • • • | | · · · · · · · · · |
| These skins were reported on boa Alaska, vessel missing. | | 453 | | · · · · · · · · · · · · · · · · · · · | | | | |
| , | ; | 416 | 145 | 109 | | | | |
| Boarded Sept. 13 by Lt. E. K. H.M.S. "Pheasant." | | 626 | 173 | 155 | | | | • • • • • • • • |
| Boarded Aug. 17 by officers H.M.S. "Icarus"; Aug. 2 officers from H.M.S. "Pheasan | | 1,968 | 1,028 | 654 | · · · · · · · · · · · · · · · · · · · | : : | | ••••• |
| | 1 | 2,105 | 764 | 1,004 | , | , | | |
| | | 650 636 | 459 263 | 191 143 | • • • • • • • • • • • • • • • • • • • • | | | |
| | ļ | 1,045 | 423 | 441 | | | | • • • • • • • • |
| | | 1,100 | | | | | | •••••• |
| | ļ | 28,552 | | | | , | | |

63 VICTORIA, A. 1900

B.— Return showing Vessels and Materials used, and Kinds, Quantities and Values of Fish, and Fish Products in British Columbia, 1898.

| | | VESSI | ILS AN | Veshels and Boats. | ATS. | | Fisi | FISHING MATERIALS. | VÍ.ATER | IALS. | | | KIN | Kinds of Fish. | ÷ | |
|--------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------------------------|------------------------------------|--------------------|------------------------------------------|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------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| | | Vessels. | | <u> </u> | Boats. | <u> </u> | Gill Nets. | ets. | Seines | | Lines. | 'pa' | , lbs. | , lbs. | ted, lbs. | |
| DISTRICTS. | Number: | Value, | Men. | Number. | Value. | Men. | Fathoms. | Value. | Fathoms. | Value. | Value. | Salmon, in brls. Salmon, fresh, l | Salmon, smoked | Salmon, in cans | Salmon, dry salt | Sturgeon, lbs. |
| | | œ, | | | ee- | | | ø, | | o:- | 6 6 | | | | | |
| 1 Fraser River 2 Rivers Inlet. 3 Skeena River 4 Naas River 5 East Coast, Queen Charlotte Island | 13 2 P | 196965 44480 31100 2500 | 36 600 36 600 3 100 25 25 | ≓ * • • • | | 4900 36 2550 15 2250 15 415 1 | 4900 396450 301025 1200 2550 105000 78730 200 2250 120000 90000 1000 415 19500 14625 775 2500 250 250 250 | 01025 78750 90000 14625 2500 | 200 200 220 220 220 220 | 1800 3 300 3 1500 3 375 | 3000 100 150 250 250 150 150 | 250 501000 250 20000 400 71350 200 10000 150 2500 | 0 75000 0 2000 0 10000 0 5000 | 12682780 4340424 5057376 960000 | 400000 750000 | 730000 |
| of west Coast, Queen Charlotte Island To west Coast, Queen Comox S Comox to Victoria. 9 Victoria to Cape Beale. 10 Cape Beale to Cape Scott. | : :& & w | 12000 1800 750 | 1286 | 38888 8 | 3000 3000 1250 1000 | 58588 58588 | 2875 5750 2500 2500 | 1875 3900 2275 1875 | 95.56 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 95.00 | 6000 15000 6000 6000 6000 | 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 20 | 100 30000 250 250000 250 25000 750 5000 | 0 0000 0 0000 0 0000 0 10000 | 393072 208800 | | |
| Totals | 143 | 143 289595 | 439 | 218 | 439 5080 218300 20695 660775 498825 8850 | 992 66 | 30775 | 38855 | 3850 | 3275 8 | 15026 | 00,91485 | 0201000 | 13275 8750 2600 914850 201000 23642452 4000000 750000 | 4000000 | 750000 |

| Assorted and mixed fish, lbs. Smelts, lbs. Skill, brls. Hair-seal, skins. Fish oil, galls. Fish, guano, tons. Gaviare, lbs. | w . | 550 19500 24778 1,682,661 250 9290 24778 447,307 250 5750 527,800 750 9200 116,672 | 35 2000 28750 60 2000 11500 15 500 6125 | 300 17250 120,350 250 5750 9,762 250 11500 36,667 | 110 7600 124525 200 24778 3,018,501 10 | 12,000 00 500 00 22,500 00 5,000 00 5,000 00 285,550 00 |
|-----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------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| Smelts, lbs. Codfish, fresh, lbs. Bkill, brls. Hair-seal, skins. Fish oil, galls. | | 500 19500 200 800 9200 250 5750 750 9200 | 35 2700 50 2000 15 500 | | 200 | |
| Smelts, lbs. Codfish, fresh, lbs. Bkill, brls. Hair-seal, skins. | | 250 19500 800 9200 250 5750 750 9200 | 35 2700 50 2000 15 500 | | 1 | |
| Ibs. Smelts, Ibs. Codfish, fresh, Ibs. Skill, brls. | | 000 000 000 000 000 000 000 000 000 00 | 35 2700 50 2000 15 500 | | 7600 124525 | |
| Jbs. Smelts, lbs. Codfish, fresh, lbs. | | | 883 | | 99 | |
| lbs. Smelts, lbs. Codfish, fresh, lbs. | | | 883 | | | |
| lbs. | | 120000 | 388 | | | |
| lbs. | | Z · · · · | ,- | 000 000 000 000 000 000 000 000 000 00 | 78500 522500 | |
| | | | | 32000 | | |
| | | = . | 12000 25000 10000 | 5000 250000 5000 8000 10000 8000 | 24500 328800 466000 | |
| Trout, lbs. | | 150000 300 2500 1000 | | _ | 328800 | Oysters. Isinglass. Claus and mussels. Crabs and abelonies. Shrimps and prawns. Fur-seals. |
| Oolachans, smoked, lbs. | | : :20 | | 900 | | s. S. |
| Oolachans, fresh, lbs. | | 250 250000 275 10000 500 50000 750 50000 | | 50 10000 | 460000 | Dysters langlass Clams and mussels Crabs and abelonies Shrimps and prawns fur-scals |
| Oolachans, salted, brls. | | | • | : : | 2175 | s. sand and s sand ser, 50 |
| Herring, smoked, lbs. | | <u> </u> | | | 127000 | Oysters. Claus and Crabs and Crabs and Shrimps a Fur-seals. |
| Herring, lbs. | | 61 | | C) | 565000 | |
| Halibut, lbs. | | 1500000 25000 5000 10000 | 25000 10000 | 350000 30000 15000 | 1970000 | |
| Districts. | | aser River. vers Inlet eena River | sst Coast, Queen Charlotte Islandest Coast, Queen Charlotte Island | oniox to Victoria ictoria to Cape Besle pe Beale to Cape Scott | Totals | |
| | Halibut, lbs. Herring, smoked, lbs. | Districts. Halibut, lbs. Herring, lbs. | 10000 20000 Herring, lbs. 3000 3000 Herring, smoked, lbs. 3000 3000 3000 Herring, smoked, lbs. 3000 3000 3000 3000 3000 3000 3000 30 | 125,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,000 (25,00 | 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 1000 | Distrricts. 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63 VICTORIA, A. 1900

C-Schedule of Salmon Canneries operated in British Columbia, Season of 1898.

| Owners or Agents. | Name of Cannery. | No. of licenses. | Packed in 1-lb Cans. | District. | Locality. |
|------------------------------------------------------------------------------------|---------------------------------------------|------------------|----------------------------|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cleeve Canning Co | Cleeve | 20 | 393,600 | Fraser River | New Westminster. |
| Brennan Bros | Ontario. | 20 | 73,920 | | н |
| F. Boutilier & Co | Boutilier | 20 | 129,920 | | |
| Sinclair Canning Co | Sinclair | 20 | 184,800 | | .: |
| Western Fisheries Co | Western | 20 | 216,000 | | |
| Westininster Packing Co | Westminster | 20 | 182,832 | | |
| Western Fisheries Co | Phenix | 20) | 609,120 | | |
| " | Brittania | 20 ∫ | 009,120 | . " | Lulu Island. |
| | Brittania British American Canoe Pass | 20 1 | 571,536 | | Canoe Pass. |
| | Canoe Pass | 20 ∫ | • | | |
| | British Columbia | 20 | 282,096 | | New Westminster. |
| Victoria Canning Co | Wadham's | 20 | 215,808 | | Ladner's. |
| Victoria Canning Co | Delta | 20 } | | | ± (_ " |
| tt | Harlock | 20 } | 1,349,224 | | |
| Ewen & Co. Fraser River Industrial Society | Wellington | 20 J | | | (Canoe Pass. |
| Ewen & Co | Lion Island | 20 | 480,000 | | Lion Island. |
| Fraser River Industrial Society | Industrial | 20 | 168,000 | | New West |
| B C Couping Co | Deag Island | . 20 | 216,624 | | Dea's Island. |
| Turner, Beeton & Co | Fisherman's | 20 | 216,000 | | Port Guichon. |
| | London | 20 | 230,400 | | Steveston. |
| J. H. Todd & Sons | Terra Nova | 20 | 266,640 | | North Arm. |
| J. H. Todd & Sons | Beaver | 20 | 351,696 | | Lulu Island. |
| | Richmond | 20 | 205,872 | | North Arm. |
| Brunswick Canning Co | Brunswick | 20 | 386,400 | | Steveston. |
| | No. 2 | 20 | 249,600 | | Canoe Pass. |
| Currie & McWilliams Canadian Pacific Canning Co | Currie's | 20 | 224,640 | | . Westham Island. |
| Canadian Pacific Canning Co | Canadian Pacific | 20 | 361,488 | | Lulu Island. |
| Pacific Coast Packing Co | Pacific Coast | 20 | 268,800 | | · |
| J. H. Hume & Co | Hume's | 20 | 325,584 | | Steveston. |
| R. Ward & Co. (agents) | Imperial | 20 | 442,080 | | i contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of |
| W. Morris & Co | Lighthouse | 20 | 192,000 | | |
| J. H. Hume & Co. R. Ward & Co. (agents) W. Morris & Co. M. Costello & Co. (agents) | Star | 20 | 211,200 | | |
| 11 | Colomai | 20 | 134,400 | | |
| 36.1.1.0.3571.1 | Atlas | 20 | 148,800 | | |
| Malcolm & Windsor | Woodbarn Inland | 20 | 727,184 | | |
| Case-Jee & Design | Angle America | 20 20 | 108,100 | | Canoe Pass. |
| Crowder & Penzar | Koltio | 20 | 138,056 | | North Arm. |
| Provincial Conning Co | Provincial | 20 | 145,440 134,400 | | |
| Provincial Canning Co Dinsmore Island Canning Co | Dinemore Island | 90 | 194,400 | | . " |
| D. Munn & Co | See Island | 20 | 556,944 | | |
| W Hickey & Co | Vancouver | 20 | 537,600 | | |
| Fraser River Canning Co | Fraser River | 20 | 263,540 | | |
| Alliance Canning Co | Alliance | 20 | 196,800 | | |
| M. Robinson | Labrador | | 16,800 | | . " |
| English Bay Canning Co | English Bay | 20 | 379,536 | | English Bay. |
| R. Cunningham & Co | Skeena | 20 | 581,664 | Skeena River. | |
| Carlula Pasting Co | Coulula | 20 | 480,000 | | • |
| B. C. Canning Co Victoria Canning Co Turner, Beeton & Co | Windsor | 20 | 484,680 | | |
| Victoria Canning Co | Standard | 20) | , | | |
| " | Claxton | 20 | 690,576 | ' " . | • |
| Turner, Beeton & Co | Inverness | 20) | 000 000 | | i |
| | Balmoral | 20 1 | 696,000 | . " | • . |
| A. B. C. Packing Co | North Pacific | 20 1 | 1 | | |
| Victoria Canning Co | British American | 20 / | 912,000 | | • • |
| Victoria Canning Co | Wannuck | 20 | 648,000 | Rivers Inlet . | • . |
| B. U. Canning Co. | Victoria | 20 | 590,832 | Y. | • |
| | Rivers Inlet | 20 | 744,000 |) · · · · . | -1 |
| Wadhan & Co | Wadham's | | 840,000 |); , , , , | |
| A. B. C. Packing Co | Good Hope | 20 | 986,544 | | |
| Brunswick Canning Co | Brunswick | 20 | 840,000 | | • |
| Vancouver Canning Co | Vancouver's | 20 | 408,000 | | |
| Lowe Inlet | Cunningham& Rhude | 20 | | Skeena River. | |
| Alert Bay Canning Co | Alert Bay | 20 | | | |
| Clayoquot Fish Co | Clayoquot | 20 | 208,800 | | |
| W. Morris & Co | Mill Bay | 20 | | Naas River | |
| ********* | Naas Harbour | 20 | 480,000 | " . | • |
| | | | 20.0:2 | | |
| | ! | i | 23,642,452 | | |

D.—RECAPITULATION

Or the Yield and Value of the Fisheries of British Columbia, for the Year 1898.

| Kinds of Fish. | Quantity. | Price. | Value. |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------------------------|-------------|
| The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s | - | \$ cts. | S et |
| Salmon, in one pound cans Lbs. | 23,642,452 | 0 10 | 2,364,245 |
| " fresh " | 914.850 | 0 10 | 91,485 |
| " salted, in barrels Brls. | 2,600 | 10 00 | 26,000 6 |
| " smoked Lbs. | 201,000 | 0 10 | 20,100 (|
| " dry salted | 4,000,000 | 0 04 | 160,000 (|
| turgeon, fresh, dressed | 750,000 | 0 05 | 37,500 0 |
| Ialibut, fresh | 1,970,000 | 0 05 | 98,500 0 |
| Ierring . " | 565,000 | 0 03 | I6.950 C |
| " smoked " | 127,000 | 0 10 | 12,700 0 |
| olachans, salted | 2,175 | 10 00 | 21,750 0 |
| " fresh Lbs. | 460,000 | 0 05 | 23,000 0 |
| " smoked " | 24,500 | 0 10 | 2,450 0 |
| rout " | 328,800 | 0 10 | 32,880 0 |
| ssorted and mixed fish " | 466,000 | 0.05 | 23,300 0 |
| melt | 78,500 | 0 05 | 3,925 0 |
| odfish, fresh " | 522,500 | 0 05 | 26,125 0 |
| kill Brls. | 110 | 10 00 | 1,100 0 |
| Iair-seals Skins | 7,600 | 0.75 | 5,700 0 |
| ish oil | 124,525 | 0 30 | 37,357 5 |
| ish guano | 200 | 0 30 | 6,000 0 |
| Caviare Lbs. | 24,778 | 0.30 | 7,433 4 |
| ysters, \$12,000; clams, mussels, \$9,080; crabs, abelonies, \$22,500; | , | | |
| hrimps and prawns, \$5,000; and isinglass, \$500. | · · · · · · · · · · · · · · · · | | 49,080 0 |
| Estimate of fish not included in above Lbs. | | | 350,000 0 |
| ur-seals Skins. | 28,552 | 10 00 | 285,520 0 |
| | | | 10,000 0 |
| Grand total | | · · · · · · · · · · · · · · · · · · · | 3,713,101 1 |

E.—Capital invested in the Fisheries of British Columbia, including Fur Sealing industry, 1898.

| | Number. | Value. | Total Values. |
|-----------------------------------------------|------------------|----------------------------------------|---------------------------|
| | | s | \$ ets. |
| Salmon canneries. Oil factories. | 12 | 20,000 | |
| Freezers and cold storage Vessels Boats | 143 5.080 | | |
| Gill-nets, fathoms. Seines. Lines | | | 13 275 00 |
| Scows and flat boats | | ······································ | 33,500 00 |
| Vessels employed in fur sealing | 35 102 326 | 207,645 10,200 8,150 | 2,480,245 00 |
| | | | 225, 995 00 |
| | | | |

APPENDIX No. 10.

ONTARIO.

SYNCPSES OF FISHERY OVERSEERS' REPORTS IN ONTARIO FOR THE YEAR 1898.

LAKE OF THE WOODS DIVISION.

Overseer M. Kyle states that while only about one-half the pound-nets of 1897 were actually in use, the financial result proves nearly 50 per cent better. Good prices prevailed during the whole season, even in winter fish were greatly in demand. Pickerel, markinonge, sturgeon and bullheads show large increases while trout and whitefish have fallen off. Of course hardly half the number of whitefish nets were used this summer. The excessive capture of sturgeon under similar circumstances is ascribed to the low water which prevailed during the last season while the water had kept very high during the two previous years. The close seasons were well observed and no serious violations of the regulations came to his notice, excepting some parties found fishing in Lake Manitou without licenses. The only fishway in his district on the Winnipeg River is now in good working order, the water having been raised to the requisite level. The value of the Lake of the Woods fisheries is reckoned at \$69,000 for the season 1898.

LAKE SUPERIOR.

Overseer W. J. Cross, who has charge of the upper part of Lake Superior, returns an average catch of fish, consisting chiefly of trout and whitefish. While the returns of Nepigon and Rossport districts show a surplus value of over \$12,000, those of Port Caldwell have fallen off by nearly \$9,000. He makes no remarks about his division.

Overseer T. H. Elliott, who has charge of the lower portion of this lake from Otter Head, reports a shortage in the catch of whitefish of nearly forty tons as compared with the previous one, and an improvement of about the same amount in the yield of salmon-trout. There is no doubt that whitefish is steadily declining in these waters. Both divisions of Lake Superior seem well divided as to the respective value of their fisheries, each yielding about \$100,000.

LAKE HURON.

North Channel, including Manitoulin Island.

Overseer Elliott, who has also charge of this district, reports a serious shortage in the three staple fish of the Manitoulin district, whitefish, trout and pickerel aggregating 173 tons, but it is more than made up in other parts of the division. This falling off is ascribed to overfishing in the past. About twenty small trap-nets for pickerel were seized and destroyed during the summer. If these traps could be properly controlled, Mr. Elliott believes they should be licensed to catch coarse fish. Nearly the entire catch is shipped to Buffalo, Detroit and Chicago. One of the principal abuses is the capturing of immature fish in pound-nets, especially young sturgeon. If the mesh of the pound-net pots were at least four inches, most of these small

fish would escape. The protection of the Dolphin greatly contributed to check illegal seining in this district, A heavy gale at the end of October destroyed many nets in the vicinity of the Duck Islands. Fish being very scarce in their own waters, the fishermen from across the border made frequent visits to our waters and needed close watching, in some cases setting their nets at night and lifting them in the morning. A powerful syndicate has been formed amongst the fish firms of the Great Lakes, the two-thirds of which is controlled by the A. Booth Packing Company. While the dealers claim that the markets will not now be glutted and that more uniform prices will be obtained, the fishermen already complain of the prices being lowered below living rates, claiming that the object of this combine is to drive them out of the business and substitute their own gear, boats and tugs, &c. This officer adds that he always contended that bona fide fishermen alone should be licensed, but under present circumstances, it cannot be denied that the fisheries of this division are controlled by foreign capital. The total value of the fisheries of this part of Lake Huron is reckoned at \$249,000, being a considerable surplus over that of the previous year.

Georgian Bay.

Overseer F. J. Smith states that trout fishing was good during October, but the gales of November somewhat curtailed the herring fishing. The close seasons were fairly observed but illegal fishing was carried on without licenses. Fourteen trapnets, five seines, and seven hoop-nets were confiscated for illegal use. The result of the fishing season's operations for this part of Georgian Bay is valued at nearly \$80,000.

Overseer R. Edmonstone also reports salmon trout as plentiful during the month of October and large captures were made, but December was so stormy that very little fishing was done in any part of his division. Six tugs and forty-four fishing boats were licensed to fish in this part of Georgian Bay. The cruising of the Dolphin was of material help to the protection of the fisheries there. During the season, he had eight convictions for illegal fishing some of which were tried before the captain of the above mentioned cruiser.

Overseer Isaac Lennox reports an increased catch of salmon trout and a falling off in whitefish. The latter he ascribes to the scarcity of fish, while the former is due to a better observance of the close seasons of recent years. He has no infractions of the fishery regulations to report. Most of catch of the whole Georgian Bay, valued at \$180,000, is shipped to foreign parts.

Cape Hurd to Point Edward.

Overseer Chas. Briggs reports a better catch of salmon trout and whitefish than last year's. Owing to the heavy gales experienced during November, the herring fishery suffered much loss and the catch is therefore short. About seventy per cent of the yield is exported. No violation of the fishery regulations came to his notice. A new fishway has been placed in the Dennis Mill dam on the Saugeen River, which, it is hoped, will prove efficient. This officer believes in licensing the small trap-nets for the purpose of catching coarse fish which are now increasing rapidly to the detriment of the higher grades of fish. He does not consider them as destructive an engine as pound-nets. The whole catch of this division consisting chiefly of trout (nearly 700,000 lbs.) and whitefish (200,000 lbs.) is valued at \$90,000, being an increase of twenty per cent over the preceding year.

Overseer H. W. Ball states that owing to the early migration of the fish south-

Overseer H. W. Ball states that owing to the early migration of the fish southward, and to the fact that the Goderich fishermen are only licensed to fish north of that part, they could not follow them, consequently boats and tugs were laid up in August making the shortest fishing season on record. Under such circumstances a talling off in the catch must be expected. About sixty per cent of the yield, valued at \$35,000, is exported to Buffalo. Mill-owners now comply faithfully to the require-

ments of the law.

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Overseer H. B. Quarry says that less pound-nets were used than in 1897, and that owing to the heavy gales of October the catch of trout and whitefish is considerably decreased. This shortage is not ascribed to any marked scarcity of fish. The fact that no fishing was carried on through the ice last winter also tends to diminish the yield. Nearly the whole catch was sold to a Canadian dealer of Sarnia. This home market proved very beneficial to our fishermen. Only one complaint of illegal fishing was dealt with by him.

Overseer J. C. Pollock reports a larger catch of all kinds of fish excepting trout and whitefish. The decline of these two species is attributed to excessive gill netting in the above district. Fishermen are alleged to continue using their large meshed gill-nets during November under the pretence of fishing for herring. Mr. Pollock is of opinion that no gill-nets of any size should be permitted during the months of close season. One of these fishermen off Kittle Point is reported to have lifted 320

trout at one haul.

LAKE AND RIVER ST. CLAIR.

Overseer Jos. Boismier reports whitefish as plentiful as formerly. Fishermen are commencing to believe that they owe this improvement to the fry from the hatcheries. The capture of sturgeon was as large as the previous one but the fish are of a smaller size. Some of them when dressed only weighed four or five pounds. Something should be done to protect this valuable branch of the fisheries. Bass are getting scarce and should never be netted.

Overseer C. W. Raymond, who has charge of Mitchell's Bay, states that no seines should be allowed in that locality as it is a natural spawning ground for bass. Angling was fairly good in the channels. He issued fifty-five anglers permits to foreigners for bass. Besides these, over two hundred others fished under the section which allows those domiciled in Canada employing Canadian boatsmen, &c. He attributes the scarcity of bass to the rapid increase of carp which destroy the spawn of the finer grades of fish. Unless this carp problem is solved in the near future, there will soon be no bass to protect.

Thames River.

Overseer T. McQueen says there are twenty-two fishery stations from the mouth of the river to Louisville, representing employment for ninety men. The principal kinds of fish here are pickerel, catfish, perch and pike. Compared with last year the catch would show a deficit owing to the blocking of the river by drifting ice which delayed the fishing operations for nearly six weeks. Nearly the whole catch is shipped to the United States. He has also charge of that part of Lake St. Clair off Dover West, where there are seven fishing station employing twenty-four hands, and a fair catch of fish is also reported from that locality.

There is no friction now between the fishermen of his district, who seem to understand that the protective regulations are for their immediate benefit. The

mill rubbish is now burnt.

Overseer Peter McCann, of the upper waters of the Thames also reports that people now understand that strictly enforced regulations will contribute to the preservation of the fisheries. Rod and line fishing was more extensively followed than in previous years. He visited the dams often, especially in the spring when many seek the capture of fish. During the summer and fall a large quantity of bass and pickerel were caught by anglers. Carp are increasing fast and are found everywhere, unfortunately for the better class of fish. All fishways in this division were in excellent order, and the directions given by him to mill-owners were faithfully obeyed.

LAKE ERIE.

Overseer Peter Lamarche reports that the spring catch was the best for years, particularly that of whitefish. Fishermen were elated over the prospects, but unfortunately the fall fishing destroyed their chances of a good season.

With the exception of pickerel, which shows a slight increase, all other kinds have greatly diminished. As compared with the previous yield, the shortage would nearly reach a half million pounds of fish. The warm weather of September and October prevented the usual run of herring and whitefish from striking inshore, then the autumn gales practically suspended operations. At the end of November the weather somewhat moderated, when some of the fishermen tried to make up their loss but winter set in on December 4 so severely that some pound-nets were frozen in and lost. Three parties were fined for fishing gill-nets without licenses.

Overseer J. K. Laird also reports a good run of fish in the spring of the year, but fall fishing was almost nil, owing to the violent gales experienced there in October which rendered many nets entirely useless. Judging from the occasional good lifts in a few sheltered places the fish still remained plentiful inshore. The fishery regulations are now willingly complied with by the genuine fishermen, who are contented

to notice the protection exercised in their interests.

Overseer Wm. Freeland reports a decrease of about 33 per cent from the previous catch. This is ascribed to the fact that there were eight nets less then last year. Here also the shortage is accounted for by storms partly destroying the pound-nets. While some of the fishermen cease operations on November 1, others keep it up to the end of the year. He reports no illegalities whatever.

Overseer W. P. Croome, of Grand River, reports that the catch of fish is fully up to the average. All the fish of this district are consumed by the anglers and their friends. The Rod and Gun Club have been a great preventive of illegal fishing here. The mill-owners have not allowed the refuse of their mills to escape in the streams of this district. The ten fishways of his division have all been repaired and are now in good condition. No illegal fishing came to his notice.

The total yield of Lake Erie is reckoned at \$212,000; a deficit of about \$30,000

from that of last year.

LAKE ONTARIO.

Overseer F. Kerr, whose division comprises parts of Lakes Erie and Ontario as well as the Niagara River, states that there was no scarcity of fish and the season's operations were generally satisfactory. The run of whitefish was steady throughout the season, especially from Burlington Beach to Niagara. Whitefish being in demand at good prices, many fishermen devoted their whole summer to it, making little or no attempts at herring. These fish seemed to come quite close to the shore on the old grounds of Burlington Beach where formerly seine hauling was carried on from May to August, taking fish of all sizes, but at present fishermen are getting quite reconciled to the gill-net system. They would not now return to the old destructive means of capture after witnessing the recent steady increase of this delicious fish. It is quite satisfactory for a person to be able to set a gill net in the evening within a few hundred yards of the shore and lift it the next morning with from 50 to 100 medium sized whitefish averaging four pounds and retailed at 10 cents per pound. At Winona there was not less than ten boats constantly pursuing this fishery until the end of the season, without apparent signs of diminution. Salmon-trout appears to have declined since a couple of years. He does not blame the scarcity of fish for it, but ascribes it to the fact that fishermen were more intent in the pursuit of whitefish using the 41-inch mesh instead of the larger which should be used for trout.

Herring came a little later than last year, and so soon as the weather became favourable they were found so plentiful that fishermen were unable to handle them advantageously. They consequently restricted their nets, using a larger mesh and catching a larger sized fish commanding better prices. However at one time the market became entirely glutted, so large were the hauls made, as much as ten and twelve thousand being taken at one lift. Altogether this fishery was a success, and it seems to be steadily improving. Should a proper sized mesh be now adopted and kept, the supply would never fail. Apparently ciscoes have disappeared, and a once great winter industry has ceased to be. Occasionally an odd one is still found among the other herring, but it is a rarity. Many theories have been advanced for the cause

of their extinction, but in the opinion of Mr. Kerr they have simply deteriorated as a species and become crossed and absorbed by other predominating species. At the time of cisco fishing their grounds did not seem frequented by herring while now

they have become the best herring grounds.

Sturgeon are getting scarce on the old Niagara grounds, the only apparent reason alleged being overfishing. Most of the sturgeon are caught on the United States side at the mouth of the river. Those caught on the Canadian side are bought by American dealers who run boats for that purpose, thus evading the duties. Unless special protection is enacted to preserve this valuable species it cannot withstand very much longer the present drain of constant fishing, regardless of size limit or close seasons, from early spring to the late autumn. Pickerel seemed quite plentiful in the usual localities, especially at old Niagara; an everage catch was secured and shipped to Buffalo. Perch are becoming a regular table fish and much sought after as such. Although tons and tons are annually caught with nets and hooks still the supply never seem to grow less. Since 'shad,' a diminutive inferior fish, has after as such. become abundant in Lake Ontario it seems to replace perch as food for the larger species, hence the abundance of the perch. Of recent years, carp has been introduced in our waters and it is now swarming in all our bays, inlets and rivers. It seems difficult of capture with the ordinary implements. The spear seems to be the best adapted engine for its destruction. It is a very objectionable coarse fish that should never have been introduced in our waters. Generally speaking, this was an exceptionally good season, fish were plentiful, prices fair, and the fishermen experienced no losses of implements by storms as is too often the case. Angling has improved iu Niagara River since the abolition of the machine traps formerly fished at Queenston. Forty-five permits were issued to American anglers in that stream.

The fishery regulations were fairly well obeyed, hardly any illegal fishing coming to his notice. A few gill-nets were confiscated in the spring and the culprits

prosecuted for fishing without a license.

Overseer R. J. Walker, of Halton and Peel counties, reports about an average catch. The herring only became really abundant in the fall. The whole catch is disposed of in Canada. Mill-owners complied with the sawdust regulation. Some fishermen attempted to lift their nets on Sundays, but desisted upon warning being given.

Overseer S. Freeman says that owing to the prohibition of the seine in his division an increase of fish is already noticeable. Only two cases of illegal fishing came to his notice. He confiscated the nets and imposed a fine. There are ten fishways in this district and he visited them all and cautioned the owners respecting

the observance of the requirements of the law.

Overseer Jos. Redmond reports the catch to be about equal to the previous one. In fact he is inclined to believe that the fisheries are improving around Prince Edward county. This amelioration he unhesitatingly ascribes to the help received from the Government hatcheries, and fishermen of experience now speak highly of artificial culture. Several seizures and convictions were effected by him during the season for illegalities against the Fisheries Act.

Overser W. P. Clarke reports an average catch of fish in Bay of Quinte but prices rules higher than last year. Seven-eighths of the catch is exported to the United States. The close seasons were observed and little or no illegal fi-hing came under his notice. He recommends that every licensed implement should bear some

distinct mark of recognition to enable the officer to detect unlicensed gear.

Overseer Chas. Gilchrist reports that trolling for masking on Rice Lake was excellent. Angling for bass was also satisfactory. Both white men and Indians admitted that fish were more abundant than during the past three seasons, as the poachers have recently been looked after rather closely. With proper protection this beautiful lake would never show signs of depletion.

Overseer E. H. Sills says the catch was an average one in the Napanee district. While some kinds of fish seemed more abundant others, notably whitefish, yielded less. No complaints were heard by him against the fishing laws and sawdust

regulations. There are no fishways in this division.

ST. LAWRENCE RIVER.

Kingston to Lancaster.

Overseer John Purdy reports an increased catch of fish in his division over that of last year. Licensed fishermen have prosecuted their calling with vigour and were not troubled with illegal fishing. The use of hoop nets should be encouraged as it catches mostly coarse fish which are so detrimental to the young of the better grades. Nearly the whole catch of fish is shipped across the border via Cape Vincent.

Overseer S. Y. Bullis, of Charleton Lake, says that all the fish caught there by tourists and residents in angling and trolling is for home consumption. Salmontrout, bass and pike are the principal kinds of fish in this lake.

Overseer H. R. Purcell reports that the tourists and sportsmen, camping in his division, have found pickerel and bass more plentiful than during the past seasons. He believes in the artificial breeding of fish. The salmon-trout fry planted in some of those lakes are doing well.

Overseer Ephraim Deacon, who protect the waters of Lanark, reports an increase in the different kinds of fish which he attributes to a more vigorous prosecution of the fishery. All fish caught are used for local consumption excepting catfish, which are sold to the Lake Ontario Fish Co. He has no prosecutions to report, as no violations of importance came to his notice, and he knows of no existing abuses.

SIMCOR DIVISION.

Overseer Wm. McDermott is of opinion that nearly all kinds of fish were more plentiful than for years past. The most noticeable improvement was in pike, bass and catfish; the former in Bailey and Nottawasaga Rivers, and the latter in Holland River. It is the opinion of several sportsmen that pike, being so similar in characteristics to maskinonge, should also have the same close season, and he recommends it. With the exception of a few convictions for fishing during the close seasons, the fishery laws were fairly well observed. The mill-owners are now complying with the requirements of the Act both respecting sawdust and maintenance of fishways in proper condition.

PARRY SOUND AND MUSKOKA.

Overseer G. R. Steele states that he visited the numerous lakes and streams in his division. He found two cases of sawdust violations and fined the offenders. Of the several cases of violations of the close seasons that came to his notice eight persons were fined, the others were dismissed for want of evidence. There was no complaint of the scarcity of fish excepting of Lakes Salmon and Otter, where, it is alleged, numerous tourists are depleting them by over fishing. From information received, and by observation, he is of opinion that the present close time for salmontrout is unsuitable for the waters of this district, and he recommends that it should begin fifteen days earlier.

SCUGOG DIVISION.

Overseer A. Bradshaw says that while maskinongé seemed more plentiful than last year, the other species have diminished. Although his catch is only approximated, he believes it to be as nearly correct as possible. The fishery laws were well observed, only one prosecution taking place at Lindsay. The fish-way in the Lindsay dam has been of great benefit, as large numbers of fish have ascended it. He is of opinion that the spring close season should be a fortnight sooner to suit the waters of the locality.

WELLINGTON COUNTY AND VICINITY.

Overseer A. Hughson reports that speckled trout are increasing in those inland lakes. He finds it difficult to give even an e-timate of the quantity caught by the anglers. Fishways would be required in several mill dams of that district. The catch is used for local consumption. The different regulations are well observed.

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ONT

RETURN of the Number of Fishermen, Tugs and Boats, the Quantity and Value of Ontario, for

| | | | | | Fisi | HING N | IATEI | RIALS. | | |
|-------------------------------------------------------|---------|----------|----------------------|-----------------|--------------|----------------------------------------------------|----------------|----------------|-------------------------|-------------------|
| Districts. | Tu | igs or | Vessel | ls. |] | Boats. | | | Gill Net | s. |
| | Number. | Tonnage. | Value. | Men. | Number. | Value. | Men. | Number. | Fathoms. | Value. |
| Lake of the Woods. | | | 8 | | : | s | | | | 8 |
| 1 Rainy River District | 4 | 54 | 5800 | 14 | 24 | 2450 | 48 | 35 | 7000 | 1250 |
| Lake Superior. | | | | | | | | | | |
| 1 Port Arthur 2 Nepigon and Rossport 3 Jackfish | 3 4 | | 3400 3000 | $\frac{15}{20}$ | 8 | 1600 1200 400 | 16 12 | | 24000 18000 | 360 270 |
| 4 Port Caldwell | | | 3000 | 10 | 1 5 | 200 750 | 2 10 | 60 | 3500 3000 30000 | 70 60 400 |
| 6 Michipicoten Islands | 1 | | 4000 3000 | 8 7 | 6 4 5 | $\begin{array}{r} 1200 \\ 800 \\ 1000 \end{array}$ | 15 11 10 | 85 | 50000 35000 20000 | 600 420 250 |
| 9 Point Namaise 0 Batchewana Bay 1 Goulais Bay | | 38 | 3000 2500 6000 | 5 5 12 | 1 3 12 | 150 300 600 | 2 6 36 | 24 60 90 | 8000 12000 6000 | 100 150 50 |
| Totals | 14 | 519 | 27900 | | 53 | 8200 | 124 | 459 | 209500 | 2730 |
| Valuess | | | | | | | | | — | |

ARIO.

all Fishing Materials, also the Kinds and Quantities of Fish in the Province of the Year 1898.

| | | | | | * | Kinds o | r Fish | ı. | | | | ! | | |
|-----------------------------------------|--------------------------------------------|----------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|----------------------|-----------------------------------------------|------------|------------------|-----------------------------|----------------|---------------|----------------|------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| Number. | Value. | Herring, fresh, lbs. | Whitefish, lbs. | Trout, lbs. | Trout, salted, brls. | Pickerel, lbs. | Pike, lbs. | Maskinonge, Ibs. | Mixed and coarse fish, lbs. | Sturgeon, Ibs. | Caviare, Ibs. | Bladders, lbs. | TOTAL VALUE. | Number. |
| 28 | \$ 3300 | | 274540 | 15000 | | 210000 | 30500 | 10500 | 89000 | 295900 | 26720 | 400 | \$ ets. 69,053 20 | 1 |
| 28 1 3 4 4 2 | 4200 250 750 1600 2000 1000 | 25000 | 240660 140170 15000 *20000 28000 28000 22020 9000 81000 46380 | 240100 260000 30000 15000 152020 250000 168000 91000 50100 58200 17920 | | 64970 6000 2000 6200 6200 4000 | 2100 | | | | | | 48,974 50 38,083 60 4,950 00 10,600 00 15,202 00 28,920 00 19,040 00 10,861 60 5,730 00 14,554 00 5,888 40 | 1 2 3 4 5 6 7 8 9 10 |
| 42 | 9800 | 91150 | 651230 | 1332340 | 790 | 83170 | 12060 | | | 45130 | | | | |
| | ļ | 1823 | 53698 | 113234 | 7900 | 4159 | 482 | · | | 2708 | · | 1 | 202,804 10 | ï |

^{*} In No. 4 include 40 barrels of salted whitefish, \$400.

63 VICTORIA, A. 1900 RETURN of the Number, Tonnage and Value of Vessels and Boats, and the Quantity

| | | | | | | Fis | HING M | [ateri | ALS. | | | | |
|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------|----------|---------------------|------------|-----------------------------|-----------------------------------------------|------------------------------------|---------------------|--------------------|----------------------------|------------------------|---------------------------------------------|
| | Districts. | | Tugs o | r Vess | els. | | Boats. | | () | ill Net | s | | ound Vets. |
| | | Number. | Tonnage. | Value. | Men. | Number. | Value. | Men. | Number. | Fathoms. | Value. | Number. | Value. |
| | Lake Huron Division. | | | ş | | | s | | | : | ş | | 8 |
| ! St 2 Tl 3 M 4 Jo 5 A 6 L: | orth Channel, Manitoulis and other Islands. t. Joseph's Island hessalon lississauga hon's Island ird Island a Cloche ore Bay | . 1 | | | 6 5 | 20 5 1 2 6 5 | 200 750 200 200 600 800 300 | 2 10 2 4 12 10 6 | 30 300 10 | 30000 | 200 2000 100 | 5 4 5 10 6 | 30 60 100 250 300 200 260 |
| 8 K | agawong | $\perp 2$ | 40 | 2000 | 10 | | | | 200 | 12000 | 1000 | 1 | 20 |
| | leldrum Bay ittle Current | | 20 60 | $\frac{2500}{2000}$ | | 2 | $\frac{200}{300}$ | 4 6 | 60 500 | 6000 30000 | $\frac{2500}{2000}$ | | $\frac{220}{150}$ |
| K | illarney | | | | | 33 | 2000 | 66 | 500 | 98000 | 5000 | | |
| | ad Riverustard Islands | | | | • • | 15, 5. | 1000 1000 | 30 10 | 150 20 0 | | 500 9000 | | |
| | quaw Island | | | 10000 | 24 | 8 | 1300 | 16 | 600 | | | | |
| | ikwemikongitzwilliam Island | | | | | 30 | 1000 | 60 | 100 | | 1000 1000 | | |
| | outh Bay Mouth | | | | | 11 12 | $\frac{1000}{1500}$ | 22 24 | 300 | . 40000 : 30000 | 2000 | | 66 |
| 8 D | uck Island | . 2 | 70 | | | 10 | 1000 | $-\frac{56}{20}$ | 600 | | 3500 | | |
| | reen Island | | | 7000 6000 | | 2 | 200 800 | $\frac{4}{12}$ | 400 | | 4000 8000 | | $\frac{250}{200}$ |
| $v_j \cup c$ | ockourn islano | | | | | | | | | 40000 | | · | |
| - 1 | Totals | | | 39000 | 114 | | 14350 | 320 | | 479000 | 35400 | | |

and Value of Fish, &c., in the Province of Ontario-Continued.

| | | | | | | | | | | | | | | = |
|------------------------|----------------------|--------------------------|--------------------------|------------|------------------------|-----------------------|------------------|-----------------------|---------------------------------------|-------------|----------------------|-----------------------------|-------------------------------------|---------|
| | | | | | Kinds | or Fi | sн. | | | | | | | |
| Herring, sulted, brls. | Herring, fresh, lbs. | Whitefish, lbs. | Trout, lbs. | Bass, lbs. | Pickerel, lbs. | Pike, lbs. | Maskinongé, lbs. | Sturgeon, lbs. | Caviare, Ibs. | Perch, lbs. | Catfish, lbs. | Mixed and coarse fish, 1bs. | TOTAL VALUE. | Number. |
| 1 | | | | | | ; | | | : | | | | \$ ets. | |
| 20 100 | 2000 20000 | 7000 28000 7075 | 4000 34000 800 | 100 | 150 2500 2330 | 3200 500 | •••• | 100. | | | •••• | | 1,221 50 6,585 00 | 2 |
| 100 | | 2440 14000 | 6715 35000 | | $21740 \\ 120000$ | 800 7000 | 2000 700 | 4085 5830 15000 | 800 | | 3000 | | 1,015 60 2,345 50 12,780 00 | 4 5 |
| • • • • • | • • • • | 14000 11825 11000 | 3000 10000 25000 | | 65700 3000 2000 | 8500 2500 | | 30000 3000 2000 | 400 | | 6000 | | 7,207 00 $2,276 00$ $3,700 00$ | 7 |
| | 600 | $28000 \\ 54000$ | 120000 48000 | | 42000 55000 | 4000 | 140 | 5000 110 | | 400 | 1500 | | 16,640 00 12,099 00 | .10 |
| 100 | 500 | 120000 32000 11000 | 130000 16000 10000 | | 20000 6000 20000 | 5000 6000 30000 | 350 | 2 :00 3000 3000 | | 1000 | 1000 2000 5000 | | 23,991 00 5,320 00 4,515 00 | 12 |
| | | 161000 6000 | | | 5000 | | | | | | | | 37,580 00 6,730 00 | 14 |
| | | 15000 31000 | 65000 108000 | | 12000 | | | | | | | | 8,300 00 13,280 00 | 17 |
| | | 35000 40000 17500 | | | | | | | · · · · · · · · · · · · · · · · · · · | | | | 24,800 00 30,000 00 29,000 00 | 19 |
| 320 | 23100 | | 1686515 | 850 | 377420 | 67500 | 3190 | 73125 | 1200 | 2900 | 18500 | 2500 | | 1 |
| 1280 | 462 | 51667 | 168651 | 68 | 18871 | 2700 | 191 | 4388 | 600 | 87 | 370 | 50 | 249,385 60 | į |

63 VICTORIA, A. 1900 RETURN of the Number, Tonnage and Value of Vessels and Boats, and the Quantity

| | | | | | Fisi | HING MA | TER | ALS. | | |
|----------------------------------------------|---------|----------|--------------|------------|------------------|----------------------|-----------------|--------------------|-------------------------------------------------------|-----------------------|
| Districts. | Т | ugs c | r Vesse | els. | | Boats. | | | Gill Nets. | |
| Number. | Number. | Tonnage. | Value. | Men. | Number. | Value. | Men. | Number. | Fathoms. | Value. |
| Lake Huron—Continued. Georgian Bay Division. | | | 8 | | | 8 | | | | 8 |
| 1 Point au Baril | 1 | | 2500 3000 | 5 5 | 6 13 7 | 650 1300 800 | $\frac{14}{28}$ | 220 2000 140 | 36000 200000 30000 | 7000 18000 6000 |
| 4 Midland and Penetanguishene | 1 | 20 7 | | 5 2 | $17 \\ 15 \\ 20$ | 1800 1500 2000 | 40 35 45 | 340 300 400 | 51000 40000 45000 | 8000 7000 7500 |
| 7 Nottawasaga Bay | 3 | 76 | | 15 | 9 7 3 | 380 350 225 | 18 14 6 | 115 90 20 | $\begin{array}{c} 11650 \\ 45000 \\ 2200 \end{array}$ | 132 450 20 |
| 10 Meaford | | | | | 8 11 | 300 325 510 | 12 16 22 | | 48000 13500 11050 | 4800 1350 1103 |
| Colpoy's Bay to Cabot Head Totals | - | | | | $\frac{50}{172}$ | 3000 13140 | | 1000 4900 | 653400 | 7487 |

and Value of Fish, &c., in the Province of Ontario-Continued.

| | | | | - | | • | <u></u> | | - 1 | | |
|-----------------------------------------|------------------------|----------------------|------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|----------------|-------------------------------------------|----------------|---------------|--------------------------------|--------------|
| | | | | Kind | s of 1 | Fish, | | | | | |
| Herring, fresh, lbs. | Herring, sulted, brls. | Whitefish, brls. | Whitefish, Ibs. | Trout, lbs. | Trout, bris. | Pickerel, lbs. | Pike, lbs. | Sturgeon, Ibs. | Catfish, 11%. | Mixed and coarse fish, lbs. | TOTAL VALUE. |
| | | | | | | | | | ! | | s ets. |
| 10000 24100 2000 4400 31200 | 50 75 40 90 | 45 60 25 10 | 66000 60000 35000 70000 12500 1050 700 1000 | 128000 80000 30000: 60000: 50000 15000 1650 40200 4250 202800 71600 43250 500000 | 200 100 50 35 12 8 5 15 40 | | 10000 10000 30000 27000 25900 | 3000 6000 | 5000 15000 | 10000 10000 20000 | 18,080 00 |
| 71700 | 325 | 180 | 286750 | 1226750 | 525 | 364700 | 102960 | 33030 | 20000 | 40000 | |
| 1434 | 1300 | 1800 | 22940 | 122675 | 5250 | 18235 | 4116 | 1982 | 400 | 800 | 180,931 80 |

63 VICTORIA, A. 1900

RETURN of the Number and Value of Tugs and Boats, and the Quantity and Value of Fish, &c., in the Province of Ontario—Continued.

| | | | | | | ٠ <u>٠</u> | SHING | Fishing Materials | RLM.S. | | | | | | <u></u> | KINDS | KINDS OF FISH. | <u> </u> |
|----------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------------------------------------------------------------|-------------------------|-------------------|------------|-----------------------------------------------------|-----------------------------------------------|-------------------------------|-----------------------------------|-------------------------------|------------|--------------------------------------------------------|----------------------|---------------------|-------------------------------------|---------------------------------|-----------------------------------------------|----------------------------------------------------|
| | Tug | t or | Tugs or Vessels. | | 2 | Boats. | | H9 | Gill Nets. | | Ň | Seines. | | Pound Nets. | 1 | | 'suo | |
| Zumber. | Number. | . эзьппоТ | Value. | Nem | Zahm Z | Value. | Nen. | Zmuber. | Fathoms. | .∍nlaV | Xumber. | Fathons. | Value. | Zumber. Value. | | Lalenting, fresh. I | Herring, salted, | Whitefish, lbs. : : Xumber. |
| Lake Huron (Proper)—Continued. | | | X. | | ٠,٠ | x . | | | | S. | | | | ¥. | | | | |
| 1 Cape Hurd to Southampton. 2 Southampton to Port Albert. 3 Four Albert to Goderich. 4 Goderich to Blue Point. 5 Blue Point to Baby's Point. | 4-00 | <u> </u> | 0000 10000 10000 | . 231 10 11 | 85 + 95 ts | 2500 900 2000 | 8 :2%8 | 200 100 250 250 | 102000 12100 48000 26140 | 12940 1500 6000 2660 | m 1 2 | 300 1 | 56 56 56 57 | : := តន | 10 300 21 2870 44 1220 227 | 10000 8 10000 21000 44100 | ล : : ::8c | 210000 1 10000 2 5000 3 23340 4 1000 5 |
| Totals | 258 | 201 201 201 201 201 201 201 201 201 201 | 25000 17700 30000 | . 교다. : 교다를 | 852 | 7233 3140 33140 33 33 33 33 33 | 250 250 250 250 250 250 250 | 1250 18 4900 68 4910 47 | 188240 653400 479000 | 23100 74875 35400 | <u> 1</u> | 950 1135 | | 14 7390 72 21000 | | 312400 8 71700 3 23100 3 | ្តត្ ១ <u>. ខ</u> ្ពុំ ១ <u>. ខ្ពុំ</u> | 249346 286736 643346 |
| Grand totals for Lake Huron | 11 9 | 1107 | 111700 | 252 | 155 | 34723 9 | 90s 11 | 11060 13: | 1320640 133375 | 33375 | 12 | 15 950 1135 | r | 116 28 | 28390 407200 1495 | 2001 | 1 | 1181930 |
| Values. | | | | r i I i | · | <u> : </u> | | | | | | | : | | x | 8144 5980 | İ | 94554 |
| Lake St. Clair Dirision. | : | | | | | | | | | | | | - | | | | | |
| 1 Lake St. Clair. 2 Mitchell's Bay 3 Thames River. 4 Detroit River. | | : : : : : : 2 | 900 | : : : 21 | 8 8 E I | 340 340 345 345 | 4 1 2 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | | | | 12221 | 7 1000 1050 2 65 140 34 2100 1650 11 1200 950 | 2 9 8 8 2 9 8 8 8 | | 17.00 | 200 | | 12900 6645594 |
| Totals | - | = | 500 | 3 1. | 5.7 | 2000 | 236 | | | | - : | 54 1365 3790 | 3. | 17 | 1,0071 | 1700 | | 79350 |
| Values | | 1 | | l I | | | | - | | | | | | _ | | | _ | 3 |

SESSIONAL PAPER No. 11a

| , | | | | | KIN | Kinds of Fish. | Flsii. | | | | | | |
|------------------------------------------------------------------------|-------------------------------|--------------|------------------------------|-------------------------------|--------------------------------|---------------------|-------------------------------|-------------|--------------------------------|------------------------|------------------------------------|---------------|-------------------------------------------------|
| Districts. | Trout, lbs. | Tront, bils. | Bass, lbs. | Ріскеге], 158. | . ы. г. | Maskinonge, lbs. | Sturgeon, Ibs. | Kels, lbs. | Perch, lbs. | .sdf ,dsftts), | Mixed and coarse fish, lbs. | Caviare, Ibs. | Total. Value |
| Lake Huron (Proper)—Continued. | | | | • | | | | | | | | | _ |
| Care Hurd to Southampton Southampton to Port Albert | 585500 58000 270000 | 120 | 1500 | 1500 | : :00 : :08 : : | | 3000 | : : : | \$000 22000 | 1000 | 10000 | | 86.55.08. 8.435.08. 8.00.08.08. |
| Goderich to Blue Point. Blue Point to Baby's Point. | 102720 3430 . | 21 : | 26080 | 47750 341970 | 1500 | | 27570 251470 | 90 | 0 21- 9 | 1260 | 24100 30410 | : : | 17,664 90 40,523 10 |
| Totals | 1096650 1226750 1686515 | 162 525 | 37080 850 | 397220 364700 377420 | 2300 102500 67500 | 3190 | 285040 33030 73125 | 9 9 1 | 36420 | 2260 20000 18500 | 90510 40000 1500 | 1300 | 183,865 00 180,931 80 249,385 60 |
| Grand totals for Lake Huron | 4009915 | 687 | 37030 | 11:39340 | 172700 | 3190 | 301195 | 99 | 30350 | 40760 | 133010 | 1200 | |
| Values. | 70000t 8 | 6870 | 3031 | 20000 | 6908 | 161 | 23472 | 13 | <u>36</u> | 100 | 996 | 9 | 614,182 40 |
| Lake St. Chin. 2 Mitchells Bay. 3 Theorem. 3 Theorem. A Debroid River. | | | 2600 300 35800 2000 | 16900 803 80400 7300 | 5913 20650 31030 2500 | 1000 2680 700 | 41880 3100 4070 5000 | | 20000 6030 22120 3960 | 12060 7520 24230 | 125000 +4780 189630 11000 | | 8,2214 52 13,302 98 13,471 00 6,613 00 |
| Totals | | : | 40700 | 104700 | 60093 | 4380 | 54050 | : | 51150 | 13810 | 370410 | | |
| No luca | | | 3956 | 5935 | 2101 | 256 | Erok | Ī | 1585 | 928 | 3017 | | 90 000 00 |

* Add here 180 barrels whitefish, salted, \$1,800, for Georgian Bay.

| | | | | Fishi | ng A | LATE | RIALS. | | | | | |
|-------------------------------------------------------------------------------|-------------------------|-----------------------------------------------------|-----------------|--------|-----------------------------|---------|----------|--------|----------------|-----------------------------------------|---------------|-------------------------------------------------|
| | Tugs | or Vessels. | | Boats. | | (| till Ne | ts. | Poun | d Nets. | Ā. | |
| District. | | | | ; | | | · · · | | | | sulted, brls. | esh, Ibs |
| Number: | Number. Tonnage. | Value. Men. | Number. | Value. | Men. | Number. | Fathoms. | Value. | Number. | Value. | Herring, sa | Herring, fresh, lbs. |
| Lake Erie. | | 8 | | š | | | i | Š | | 8 | | |
| 1 Pelec Island 2 Essex County 3 Kent County 4 Elgin County 5 Norfolk County + | $^{1}_{*2}$ $^{20}_{5}$ | 3 10000 7 5 14590 14 2 12700 10 4 11200 31 | $\frac{51}{29}$ | | 22 43 67 54 110 | 5 | 500 | | 35 60 47 | 2975 10300 26000 16200 7700 | 105 | 197860 723270 2550640 823360 400120 |
| 6 Haldimand County 7 Welland County | . 2 50 | 4000 5 | | 200 | 20 56 | 30 | 9000 | 2500 | · ` | | | 112100 32000 |
| Totals | . 16 459 | 52400 67 | 215 | 18500 | 372 | 765 | 65420 | 10450 | 179 | 63775 | 105 | 4-39350 |
| Total values | 3 | | | •••• | | | | | | | 420 | 96787 |

^{*} One of these a sailing vessel, 198 tons. † In No. 5 add 15 seines 2,500 fathoms, valued at \$1,365.

SESSIONAL PAPER No. 11a and Value of Fish, &c., in the Province of Ontario—Continued.

| | | | Kn | NDS OF | Fish. | | | | | | | |
|---------------------------------------------|------------------------------------------------------|--------------------------------------------------------------|-------------------------------------|------------------|-------------------------------------------------------------|------------|-------------------------------------------------------------|---------------------------------------------|-------------------------------------------------------|---------------|------------------------------------|---------------------------------|
| | Bass, lbs. | Pickerel, lbs. | Pike, lbs. | Maskinongé, lbs. | Sturgeon, lbs. | Eels, Ilw. | Perch, lbs. | Catfish, Il». | Mixed and coarse fish lis. | Caviare, Il». | TOTAL VALUE. | Number. |
| | | | | | | | | | | | 8 ets | ٠. |
| 0910 7480 3175 3150 5000 650 | 1730 5540 515 2860 2500 11500 5600 | 2530 40840 93250 359690 160500 63600 82000 | 22800 110000 9500 3000 | 5000 | 26330 24790 12030 28105 30400 5300 158000 | | 1330 37460 51085 31300 220415 15800 22000 | 870 5590 1375 4610 8440 6700 | 302260 126350 42645 175100 20000 26000 | 8200 | 64,799 3 42,902 9 * 42,834 6 | 0 2 5 3 0 4 5 5 0 6 |
| 5365 | 30245 | 802410 | 145300 | 5000 | 284955 | 2000 | 379390 | 27585 | 692355 | 8200 | | |
|)629 | 2420 | 40120 | 5812 | 300 | 17097 | 120 | 7588 | 552 | 13847 | 4100 | 212,586 1 | 0 |

^{*} Partly estimated.

63 VICTORIA, A. 1900

RETURN of the Number and Value of Tugs and Boats, and the Quantity

| | | | | | | Fishin | в М | ATER | IALS. | | | | | |
|---------------------------------------------------------------------------------------------------------------------|----------|----------|--------|------|------------------------------------------------------|-----------------------------|------------------------------------------------------|--------------------------|----------------------------------|-----------------------|----------|---------------------------|------------------------|---------------------------------------|
| • | Tu | gsor | Vesse | ls | | Boats. | - | | ill Net | s. | Ho Ne | | brls. | 1, 1bs. |
| Districts. | Number. | Tonnage. | Value. | Men. | Number. | Value. | Men. | Number. | Fathoms. | Value. | Number. | Value. | Herring, salted, brls. | Herring, smoked, lbs. |
| Lake Ontario. | | | 8 | | | ŝ | | | | ŝ | | ş | | |
| 1 Niagara and Queenstown 2 Port Dalhousie 3 Beamsville 4 Burlington Beach 5 Angling and trolling in above districts | 1: | 8 | 1800 | | 11 7 14 16 | 1000 600 1000 1100 | 22 14 28 32 | 200 250 300 320 | 20000 25000 30000 32000 | 7000 8000 | | | | |
| above districts. 6 Halton and Peel Counties 7 York County. 8 Ontario County. 9 Northumberland and Dur | • | | | | 17 10 5 | 2900 1030 90 | 40 17 10 | 755 102 9 | 37550 15-00 1235 | | | | | |
| ham Counties 10 Rice Lake and Trent River 11 Prince Edward County 12 Bay of Quinte. 13 Lennox County and Nap | r . 2 | 100 | | 10 | $\begin{array}{c} 22 \\ 10 \\ 100 \\ 53 \end{array}$ | 1000 280 500 1575 | $\begin{array}{c} 30 \\ 30 \\ 150 \\ 72 \end{array}$ | 23 63 682 | | 1200 *2000 1420 | 46 36 | 250 920 720 2000 |] | |
| anee River 14 Amherst Island & vicinity 15 Wolfe Island and vicinity | | | 1 | | 28 16 22 | 610 240 540 | 39 32 37 | 30 20 35 | 6000 4125 5150 | 690 225 600 | | 920 560 | | · · · · · · · · · · · · · · · · · · · |
| Totals | . 3 | 108 | 6800 | 13 | 331 | 12465 | 553 | 2789 | 233810 | 41360 | 265 | 5370 | 175 | 668000 |
| Values | | | | | | •••• | | | | | | | 700 | 13360 |

^{*2} seines, 300 fathoms, valued at \$200.

SESSIONAL PAPER No. 11a

and value of Fish, &c., in the Province of Ontario-Continued.

| | | | Kı | NDS OF | Fish. | | • | | | | | • | : | |
|--------------------------|----------------------|-----------------------------------|----------------------------|----------------------|----------------|-------------------------|------------------------------|-------------------------------|---------------------|---------------------------------------|----------------------------------|------------------|----------|---------------|
| Herring, fresh, lbs. | Whitefish, Ibs. | Trout, lbs. | Bass, Ibs. | Pickerel, lbs. | Pike, lbs. | Maskinongé, Ibs. | Sturgeon, lbs. | Fels, Ibs. | Perch, Ibs. | Catfish, Ibs. | Mixed and coarse fish, lbs. | TOTAL VALUE. | | Number. |
| 180000 280000 | | 1000 6 0 ₽0 | 5000 1000 4000 | $\frac{4000}{10000}$ | | | 30000 500 4000 1500 | 1000 | 10000 | | 10000 10000 2000 2000 | 6,070 | 00 | $\frac{2}{3}$ |
| 70800 4900 | 200 94200 2950 | 9150 | | | | | | | 60000 500 100 | | 300 2700 | 13,450 | 00 | 6 7 |
| 25000 50000 104800 | 60000 | 60000 | 50000 19000 6800 | 10000 | | 1000C0 20000 3150 | 2000 | 1200 5350 10000 5850 | 5000 48870 | | 20000 21450 40000 58800 | 12,212 17,970 | 40 00 | 10 11 |
| 42000 1500 | 21400 13400 | 2000 | 600 | 31000 | 27000 19300 | | | 13000 | 39000 | · · · · · · · · · · · · · · · · · · · | 104000 6200 17900 | 9,320 1,396 | 00 00 | 13 14 |
| | | $\frac{\overline{101650}}{10165}$ | 7392 | | | $\frac{123150}{7389}$ | 46600 2796 | | | | 295350 5907 | 132,064 | 30 | |

63 VICTORIA, A. 1900

RETURN of the Number and Value of Tugs and Boats, and the Quantity

| | | | Fish | ing 1 | AATERI | ALS. | | |
|---------------------------------------------------------------------------------------------------------------|----------|-------------|----------|------------|-------------|--------|---------------|-------------------|
| Districts. | Boats. | | | Gill Nets. | | | Hoop Nets. | |
| Number. | Number. | Value. | Men. | Number. | Fathoms. | Value. | Number. | Value. |
| St. Lawrence River, Kingston to Lancaster. | : | \$ | | | | \$ | | \$ |
| 1 Frontenac County. 2 Fronting on County Leeds. 3 Lakes in Leeds and Lanark. 4 *Grenville County to Lancaster | 70 23 | 3200 250 | 80 40 | 60 4 | 2000 | | 3 | 650 50 1170 |
| Totals | 139 | 4030 | 176 | 64 | 2050 | 285 | 92 | 1870 |
| Value | ş | | | | | | | |
| Inland Divisions. | | | | | | | | |
| 1 *Prescott and Carleton Counties | | | | | | | | |
| 3 *Lake Nipissing 4 *Parry Scund and Muskoka | | | | | | | | |
| 5 *Peterborough and vicinity and Otonabee River | | | | | • • • • • | | | 178 |
| 7 *Lake Simcoe, Couchiching and Severn and Holland Rivers. 8 *Wellington County and vicinity. | | | | | | | | |
| | | · | | | | | ···- | |
| Totals | | | ł | i i | | 1 | 8 | 17 |

^{*} Angling, trolling and night lines.

SESSIONAL PAPER No. 11a and Value of Fish, &c., in the Province of Ontario—Continued.

| | | | | | Kinds | s of Fi | sн. | | | | | |
|----------------------|-----------------|----------------|------------------|-------------------------|--------------------------------|------------------|----------------------|-------------------------------|-----------------------------|-----------------------------------------------------------------|---------------------------------|-----------------------------------------------|
| Herring, fresh, lbs. | Whitefish, lbs. | Trout, Ibs. | Bass, Ds. | Pickerel, lbs, | Pike, Ibs. | Maskinenge, Ibs. | Sturgeon, lbs. | Eels, lbs. | Perch, lls. | Catfish, Ibs. | Mixed and coarse fish, lbs. | TOTAL VALUE. |
| | | | | I | | | | ! | | | | \$ ets. |
| 4800 800 | 1000 | 6500 20600 | 21000 | 1800 4500 550 | 46000 96000 7650 6000 | 4700 | | 38400 17000 3125 800 | 600 24000 2450 600 | $\begin{array}{c} 102500 \\ 22500 \\ 41900 \\ 1000 \end{array}$ | 25820 42500 28790 5000 | 7,932 40 10,882 00 4,985 80 1,215 50 |
| 5600 | 1000 | 27100 | 34900 | 6850 | 155650 | 4900 | 44500 | 59325 | 27650 | 167900 | 102110 | |
| 112 | 80 | 2710 | 2792 | 543 | 6226 | 294 | 2670 | 3559 | 830 | 3358 | 2042 | 25,015 70 |
| * | 600 650 | 2000 | 9950 4750 | 7270 5100 | 9500 10800 5000 | | 1250 3800 3000 | 8800 2100 | 9000 600 | 41100 1500 | 57900 12500 | 5,106 50 2,079 00 |
| • • • • • • | 3750 | | | 184200 | 6000 | 4100 | | | 7000 | 3000 | 23000 153000 | |
| • • • • • • | 3200 | 58300 | 160000 233000 | | 1090 | 268200 311000 | (. · · · · · · · · | 5400 2600 | 2000 | 10450 | 76700 254000 | 37,195 00 42,536 00 |
| * | 30000 | 72300 15000 | 43000 | 15400 | | 27000 | 2100 | | 16500 1500 | $\begin{array}{c} 5000 \\ 2200 \end{array}$ | 55000 12000 | 17,433 00 |
| | 38200 | 190600 | 734200 | 212970 | 36100 | 623200 | 10150 | 18900 | 36600 | 63250 | 644100 | |
| | 3056 | 19060 | 58736 | 10648 | 1444 | 37392 | 609 | 1134 | 1098 | 1265 | 12882 | 147,324 50 |

^{*} Partly estimated.

RECAPITULATION of the Number of Fishermen, Tonnage and Value of Tugs, Boats, Nets, &c., and the Quantity and Value of all Fish caught in the Province of Ontario, for the Year 1898.

| | | Zanber | | -0182403 | 1~ x | |
|---------------------------------------|----------------------------------------------------|-----------------------------------------|---------|-------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| RES | Piers and Wharfs. | Δ alue. | æ | 17350 16475 2200 | | 36025 |
| 'IXTU ED SHIN | , - | Zumber. | | 22 % | : : | 99 |
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| ity and | | Mixed and coarse fish, lbs, | | 89000 | 133010 370410 692355 | 295350 | 102110 644100 | 2326335 |
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| Value of Ontario, | | Bass, Ibs. | | | 37930 40700 | 92400 | 34900 734200 | 970375 |
| age and | • | Trout, lbs. | | 15000 1332340 | 4009915 | 101650 | 27100 190600 | 5676605 970375 |
| er of Fishermen, Tonnage caught in the Province | | Whitefish, 1bs. | | 274540 651230 | 1181930 79350 | 410120 | 1000 38200 | 2882035 |
| rmer he E | | Whitefish, brls. | | _ ;≆ | 180 | ::_ | | 220 |
| Fishe ght in t | | Herring, fresh, lbs. | | 91150 | 407200 | 7.7 | 5600 | 6309000 |
| r of | | Herring, salted, brls. | | :: | 1495 | 313 | : : | 1775 |
| mpe | | Salmon-trout, brls. | | 790 | 289 | | : : | 1477 |
| RECAFITULATION OF the Number of Fishermen, Tonnage and Value of Tugs, Boats, Nets, &c., and the Quantity and Value of all Fish caught in the Province of Ontario, for the Year 1898—Concluded. | | PROVINCE OF ONTARIO. | | Lake of the Woods | Jake Huron, including Georgian Bay. | Lake Ontario | - : : | Totals |
| R. | | Number. | i | - 22 | w 4, | ဂ ဗ ၊ | - 00 | |

† In No. 1, add 400 lbs. sturgeon bladders, \$400. ‡ In No. 6, add also 668,000 lbs. smoked herring, \$13,360.

63 VICTORIA, A. 1900

RECAPITULATION

Of the Yield of the Fisheries in the Province of Ontario for the Year 1898.

| Kinds of Fish. | Quantity. | Price. | Value. |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Vhitefish, salted Brls. " fresh Lbs. " salted Brls. " salted Brls. terring, " " " fresh Lbs. " smoked " asss. "ickerel ike " Iaskinonge turgeon " " caviare " " bladders. elels " artish " " | 220 2,882,035 5,676,605 1,477 1,775 6,309,000 668,000 970,375 2,715,340 859,783 774,320 1,171,580 36,120 400 127,325 753,380 601,425 | S ets. 10 00 0 08 0 10 10 00 4 00 0 02 0 08 0 05 0 04 0 06 0 06 0 06 0 06 0 03 0 02 | \$ cts 2,200 00 230,562 10 567,660 50 14,770 00 7,100 00 18,360 00 77,630 00 135,767 00 34,391 32 46,459 20 70,294 86 18,060 00 400 00 7,639 50 22,601 40 12,028 50 |
| Coarse fish" Total 1898 | 2,326,335 | 0 02 | 1,433,631 75 1,289,822 57 |
| Increase | | | 143,809 1 |

RECAPITULATION

OF all Fishing Tugs, Boats and Nets, &c., employed in Ontario for the Year 1898.

| Articles. | Value. | Total Value |
|--------------------------------------------------------------------------------------------------------|-----------------------------|-------------|
| | 8 | 8 |
| 83 vessels, (2,257 tonnage; 430 men) | $^{105,100}_{82,428}$ | 107 500 |
| 15,172 gill-nets, (1,838,420 fathoms) 86 seines, (8,115 fathoms) 372 pound-nets 406 hoop-nets | 214,020 6,490 106,965 | 187,528 |
| · · · · · · · · · · · · · · · · · · · | | 336,780 |
| Night lines, hooks, &c 193 freezers and ice-houses. 66 piers and fishing wharfs | 2,000 66,445 36,025 | 000,100 |
| so press and usually materials. | | 104,470 |
| Total value | | 628,778 |

APPENDIX No. 11.

REPORT

ON

FISH CULTURE OPERATIONS

IN THE

DOMINION OF CANADA

1899.

REPORT BY PROFESSOR EDWARD E. PRINCE, COMMISSIONER AND GENERAL INSPECTOR OF FISHERIES FOR THE DOMINION OF CANADA, FOR THE YEAR 1899.

OTTAWA, December 31, 1899.

To the Honourable Sir Louis H. Davies, K.C.M.G., &c., &c.
Minister of Marine and Fisheries,
Ottawa.

SIR,—I have the honour to present my annual report upon the work of fish culture carried on in the department's hatcheries during the year 1899. The numerical results, as shown by the subjoined statistical tables, are of the most satisfactory character as the total quantity of fry, whitefish, Atlantic salmon, Pacific salmon, Great Lake trout or salmon trout, and lobsters, planted in the various waters detailed in the several reports, considerably exceeds the annual average output for the last twenty years. What are the exact results of this annual effort to replenish the waters of the Dominion with the best and most valuable kinds of marketable fish admits of little question. Experts are agreed that fish-culture, if properly conducted, must of necessity show beneficial effects, and practical men interested in the fishing industry have expressed the opinion, almost universally, that the fisheries have benefited by the fish-breeding operation carried on under the department for over thirty years.

No one of course can deny that fish-breeding has limits, and very definite ones, and it must be admitted that much has been claimed for artificial propagation which a close and critical examination cannot fully justify. In my special report, included as Supplement No. 1 of the 29th Annual Report of the Department 1896, I pointed out (on p. 18, 'A concise Account of Fishes' Eggs') that the very nature of the eggs of certain species of fish prevented successful treatment by fish-culture methods. I said: 'It is, moreover, no uncommon thing for intelligent persons to apply to the Department of Marine and Fisheries for spawn, or for the young fry of fishes, the

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eggs and young of which have never yet been seen by any one, and it is still more common for similar applications to be made for fry which on account of peculiar features in the nature of the spawn, it is impossible, or unprofitable, to deal with in fish-culture establishments,' and further on, upon the same page, I added that 'adhesive eggs, such as those of the black bass, maskinonge, sturgeon, &c., are most unsatisfactory for treatment by methods of artificial culture. With extra precautions and care a small percentage of their eggs can be hatched; but to obtain the best results the separate, non-adhesive kind of eggs only, should be hatched artifically.'

Hardly less hazardous is the attempt, which has been made upon an extensive scale in many countries, to artificially incubate the eggs of the sea-fishes notably cod, haddock, mackerel, sole and certain flat-fishes, whose ova are very minute and float in the open sea. In a prior report I referred to a system of saving from total destruction the eggs of marine fishes, at the time of their capture and I made reference to the practice followed by some United States fishermen in Lake Michigan, of taking the eggs from the fish captured at the spawning time, fertilizing them and then returning them to the water. Mr. Charles E. Fryer, one of Her Majesty's Inspectors of Fisheries for England and Wales, in his report for 1897 upon the Sea Fisheries of Britain (excluding Scotland) makes reference to this and goes on to remark:

'I very heartily concur in, and desire to strongly endorse, the doubt expressed by Professor Prince as to the advisability of relying solely on artificial breeding in any form as a means of keeping up the stock of any kind of fish; but there does not seem to be any reason why the principle thus described as being put in practice in Wisconsin with respect to trout should not be extended to other fish. In saying this I do not of course forget the essential differences between sea fish and freshwater fish; but what I wish to point out is the advantage which this suggestion has over the usual methods of the artificial hatching of sea-fish, viz., that at trifling expense, and without interfering with the ordinary fishing operations, it would result in the

saving of millions of ova which would otherwise be destroyed.'

It is of course necessary to observe that while this rough and ready treatment at any rate saves from immediate and sure destruction the eggs thus scattered in the water, it is not always the case, probably very rarely so, that the eggs are returned to the water in localities favourable to their safety and successful development. Amongst freshwater fishes it is problematical whether the eggs cast overboard by the fishermen, will ever find a secure and appropriate resting place. With the sea fishes, above referred to, there is a greater possibility that the eggs will find themselves in favourable surroundings near the surface of the water but questions of salinity temperature, tides and currents are bound up with the matter, and under normal conditions, sea fishes no doubt pawn, when and where the most favourable conditions obtain. During the sittings of the recent Canadian Lobster Commission, 1898, of which I was appointed chairman, some evidence was given, which brought out forcibly the point upon which I have just insisted. A very intelligent and well-informed lobster packer in Cape Breton made the following recommendation to the commissioners: The best thing to preserve the lobster supply would be to preserve the ripe berried lobsters in a floating car at each cannery, and let an officer of the Dominion Government come round and remove the spawn. He should then scatter the spawn on a flat sandy bottom, cover it over, and let it hatch out naturally. Young lobsters are always found in the sand as I once got one alive about 100 yards out from the shore in three feet of water. It was white, but perfectly formed and not quite an inch We get millions of small lobsters on the sand after a soft ripple and a S.W. wind.., If the lobster packers assisted they would give all the aid necessary as they would get the market value for the lobsters after the removal of the spawn.' The department three or four years ago tried an analogous scheme and induced many lobster packers to remove the 'berries' from ripe lobsters, place the eggs in a floating wooden cage specially devised, and allow them to hatch near the cannery wharves. Reports came to hand that millions of small lobsters were seen swimming about in proximity to the hatching crates; but there is grave reason to doubt that they were lobster fry at all. At the Lobster Commission's sitting at Canso one of the most prominent fish merchants and lobster canners on the Nova Scotia coast proved this when he said: 'Many fishermen see small creatures in vast num-

bers in the inshore waters and they call them lobster fry. I sent some of these supposed lobster fry to Prof. Herrick, who has specially studied the lobster, and he kindly and promptly sent me a reply stating that the supposed fry of the lobster were simply sand-fleas.' In other words the system of returning ova to the water in unsuitable places and under unfavourable conditions results in attracting the enemies of the eggs and fry, and thus provides food for voracious scavengers ever on the look out for this dainty provender. If the eggs of fishes are removed from the parents and placed in safety in the hatching jars and trays while undergoing incubation, one great danger, perhaps the greatest danger of all, is avoided viz., the destruction of the helpless eggs by active and voracious enemies. The agile fry whether of salmon, whitefish, trout or lobster, has powers of rapid movement at an early stage of its life, subsequent to hatching—it is on the alert and can elude enemies, but the ova are helpless and exposed to innumerable perils.

During the past year twelve hatcheries have been in active operation and have turned out a total quantity of fry amounting to 222,350,000, of which nearly half were the fry of the lobster. As stated in my previous report, three of the establishments have not been in operation, and I regret to have to report that after the conclusion of the work at the Deeside Hatchery, on the Restigouche River, the building was destroyed by fire. An event so serious, is on every ground to be deplored, but there is special reason to regard with regret the destruction of an institution so famous and so successful as that which for fifteen years has held a most prominent place The officer-in-charge, in his subjoined report, makes in the world of pisciculture. reference to the opinion prevalent in the district that the burning of the building and all that it contained, was an act of incendiarism. It is difficult to conceive how an institution, which has been universally admitted to have benefited the salmon fisheries of the Bay of Chalcurs and the noted Restiguuche and Metapedia rivers to an incalculable extent, should have aroused the malice of any responsible or intelligent residents in the district. The only fortunate circumstance is, that the fry had all been distributed, except a few thousands retained in a small pond close by, and the fishermen and anglers will not therefore have any grounds for the fear that they will be deprived during the coming year of the benefit of artificial fish propagation, on account of the destruction of this fine hatchery. A new building, upon a suitable and more accessible site, will be ready in time for the season's work 1899-1900, and there will be no interruption in salmon-breeding operations by reason of the unforeseen calamity alluded to. The necessary steps have also been authorized, preliminary to the erection of new hatcheries on the Pacific coast as well as on the Atlantic coast, and the buildings which it is proposed to erect will not only be of increased capacity, but will embrace many improvements which I have suggested, and certain new arrangements in accordance with recent advances in the science of fish-culture.

Following the same course at the Miramichi Hatchery, South Esk, N.B., which has been adopted since 1897, a quantity of the ova of the brook trout was placed in that building by Mr. D. G. Smith, the Provincial Fisheries Commissioner, and successfully incubated. Nearly 28,000 of these brook trout fry thus hatched were planted by Mr. Smith in tributaries of the Rivers St. John and Miramichi. This conjoint work on the part of the Dominion and Provincial Governments in recuperating the waters of the province with these game fish, has given the liveliest satisfaction to anglers and others.

The Government of New Zealand towards the close of the year 1898 expressed a desire to have sent out a supply of the eggs of certain Canadian fishes, especially the whitefish and the Pacific salmon, and arrangements were at once made for sending a shipment in the care of Mr. F. L. Ayson. Mr. Ayson was the commissioner appointed by the government of the colony to make a complete examination and survey of the systems of artificial fish-culture adopted in Canada, United States, in the British Isles and various European countries, and he spent some months in 1898 and 1899 on this continent. Mr. Ayson was most zealous in the prosecution of his mission, and every facility was given to him by the Department of Marine and Fisheries to enable him to investigate the methods so successfully adopted in the hatcheries of the Dominion. The officers at Sandwich and at New

Westminster were instructed to specially prepare supplies of ova of whitefish and British Columbia salmon for shipment across the Pacific Ocean. The whitefish eggs were carefully packed for their lengthy voyage by Mr. William Parker and they arrived in perfect condition at Vancouver, B.C., on Feb. 10. Mr. Ayson, who was waiting to receive them, immediately reported to me that 'they are splendid eggs and well-packed for the long journey they have to travel.' Unfortunately the salmon eggs in the Fraser River Hatchery were in a state of development too advanced to allow of shipping a suitable quota with any chance of success. The whitefish eggs, packed in thick 'canton flannel' in the perforated trays used for incubation, and well damped, were taken on board the SS. Aorangi by Mr. Ayson upon the 12th of February, and kept in a cool part of the ship. In a letter to me dated April 1, 1899, Mr. Commissioner Ayson wrote as follows:—'I took them on by the Aorangi sailing from there on the 12th February, arriving at Wellington, N.Z., on the 6th March. On the voyage down I kept them in the cool chamber at a temperature of from 35° to 40°. From Wellington I transhipped to one of the West Coast boats that run down to Greymouth on the west coast of the South Island. Arrived at Kaneiri Lake on the 9th March, arranged my hatchery jars in the trout hatchery there and got the eggs all unpacked on the evening of the 10th. The top trays of each case were in good condition, but in the bottom ones there was quite 30 per cent of loss, caused, I think by the 'canton flannel' covering the bottom of the trays being too thick in texture to allow the free passage of water as it came from the melting ice from the hopper above. The flannel held the water and the eggs were in a sodden state. The flannel in some of the trays had rotted and broke when the trays were being lifted out of the case. Any decaying fabric must be injurious to eggs coming in contact with it as these were. The lot from the American Fish Commission were also packed on trays covered with canton flannel, and there was about the same proportion of loss. We get the best results when perforated zinc is used for covering the bottom of the trays and the eggs packed between layers of green moss.

'The good eggs hatched out well, and I have liberated the young fish in the

cool clear water of Kaneiri Lake. Our Government are very pleased with the

results obtained from this lot,'

This letter of the special commissioner was followed later by a communication couched in the most courteous terms, addressed to me by the Premier of New Zealand, the Hon. Robert J. Seddon, acknowledging the help which it had been found possible to render. The letter is as follows:

PREMIER'S OFFICE,

WELLINGTON, N.Z., 17th August, 1899.

PROFESSOR PRINCE, Commissioner of Fisheries, Ottawa.

Sir,-I have the honour to express the thanks of my Government for the courtesy which has been shown by your Government, and your department in particular, in facilitating the inquiries made by our commissioner, Mr. Ayson, into the working of your fisheries.

I have also to thank you for the consignment of whitefish ova which has been

sent to this colony through him.

It is the desire of this Government to obtain a further consignment of whitefish ova, and also of the sockeye salmon (Oncorhynchus nerka), and shall be glad if you will kindly supply us with the same.

Particulars as to the quantity of each kind required will be duly forwarded by

the New Zealand Inspector of Fisheries.

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

R. J. SEDDON.

Accordingly arrangements were made for sending about half a million British Columbia salmon eggs to New Zealand, via Sydney, N.S.W., and it is expected that these eggs will reach their destination early in 1900, and the fry will be planted in various New Zealand rivers. Atlantic salmon do not appear to have succeeded at the Antipodes, possibly on account of the high temperature of the water; but there is much reason to believe that British Columbia fish will show better results.

In former reports I have alluded to the various conditions necessary for the successful incubation of fishes' eggs. The vulgar notion must be dispelled for ever that artificial fish-propagation merely consists in squeezing the eggs from parent fishes, then applying the milt, laying them upon trays, and letting them hatch out in due course without any experienced care or attention, and finally dumping the newlyhatched fry into any waters in which interested parties may wish the fish to be placed. Fish hatching to be a success demands the utmost care and all the resources of trained experience. The eggs must be taken in a proper and careful manner, or they will suffer harm and if they survive, will yield weak and malformed fry. During the many weeks or months of incubation constant attention is requisite, the supply of water being judiciously controlled, the sickly and dying eggs removed and all accidental impurities got rid of otherwise a large percentage of the eggs will die, and the deadly fungus will work havoc on the trays of ova. Nor is the need of an expert's attention and knowledge less urgent when the fry hatch out and the work of planting them out begins. All the season's operations will be wasted and of no effect, if the fry are not distributed with care and with due regard to the temperature, purity, depth, and character of the waters to be stocked. The nature of the bottom, the lack or abundance of microscopic food, and many other details call for attention, and rough handling or carelessness during transit by rail or wagon are to be avoided for failing a proper regard to such matters, the results of fish hatching will be disappointing. Indeed fish-culture must be a failure if conducted by careless and inexperienced officers. The operations carried on in the Dominion hatcheries since fish-culture commenced in Canada, have had the inestimable advantage of experienced guidance. The officers on the whole have shown zeal and careful attention in their work and most of these officers, after a period of preliminary training, have had an experience of many years of practical work. It is impossible to overestimate the advantage of possessing a staff of officers of experience and really interested in their work, whose services indeed have been regarded as of such value that in more than one instance the United States authorities have given lucrative positions to Canadian officers in charge of hatcheries.

That fish culture should escape all criticism was not to be expected. Criticism as a matter of fact has been lavishly bestowed on fish-breeding work—in some cases it has been well merited, owing to the ignorance, indolence, or lack of experience of parties entrusted with fish-culture work. Some criticism, however, has been directed against the adopted methods, as methods, and changes or improvements have been repeatedly suggested. One of the most frequent criticisms is that directed against the planting of very young fry which it is alleged are unable to care for themselves, and cannot endure the changed temperature of their surroundings when removed from the transportation cans or vessels. The fry, it is urged, should be kept until they are some months old when they would be able to feed themselves, and have sufficient vigour and intelligence to avoid enemies and to withstand unfavourable conditions of temperature and the like. When over thirty years ago Mr. Livingstone Stone, the veteran fish-culturist of the United States, asked the late Seth Green, a pioneer in the same science, 'How many of those engaged in trout-breeding would succeed?' he answered with characteristic brevity, 'One in a million!' Six years later (in 1873) Mr. Green found himself able to regard more hopefully the work of pisciculture generally, for as a result of practice and observation the science has been reduced to rules, and the conditions of success had been so fully ascertained that, at any rate, with familiar species of the Salmonidae there was little risk of serious failure if ordinary intelligence were exercised. Indeed so exact and precise have these rules become that the late Sir J. Gibson Maitland of Howietown, Scotland, did not hesitate to affirm that 'there is no

longer any question as to how the fish are to be hatched, and under what conditions they can be grown. The questions in trout-culture are now precisely the same as those which demand solution in breeding cattle, namely, how to breed so as to produce the most desirable and suitable characteristics for the district where they are to be reared.' With respect to other fishes than Salmonoids it must be admitted that pisciculture is even yet in a large degree experimental. To use Professor Huxley's phrase 'well considered and scientific methods' have yet to be worked out and the cultivation of our prolific waters is as important as the cultivation and development of our land resources. I propose in a future report to deal exhaustively with the ceaselessly-detated question of 'Newly-hatched fry v. fingerlings'; but I cannot resist referring to the very able and apposite observations of Mr. Herschell Whitaker, one of the most zealous and thoroughly informed fish-culture authorities on this continent. In a report of the Fish Commissioners of the State of Michigan eight years ago, Mr. Whitaker expressed himself as follows:—

'All fishculturists who attempt to keep up their stock of parent fish by raising a certain quantity of fry each year are familiar with the great mortality occurring at the period when the young fish has finally absorbed his food sac, and is ready to take the natural food provided by nature. At this time when he "rises" in search of this natural food if he does not find it he is compelled to take the artificial food prepared for him, and the difficulty of adapting his stomach to this food results in a loss which varies somewhat from fifty to seventy-five per cent. If the young trout at this period of his existence were allowed to forage for his natural food this mortality would be greatly reduced. There are streams that are well known in Michigan which have had plants of fry not to exceed five hundred in number which within three years from the time of stocking have shown up well, and to-day without further stocking afford good sport to the angler.

'Within the current month there appeared in the Detroit daily paper an interview with a prominent fishculturist who took occasion to say: "I believe, and against great opposition have always maintained, that 100,000 yearlings planted were more likely to live and thrive than 5,000,000 fry." Making due allowance for the enthusiasm of the interviewed party and for the natural predisposition of man

to defend his pet theories, let us see where these figures would leave us.

'We will start with 5,000,000 fry planted, and we will say that twenty-five per cent perished the first year, ten per cent the second year, and five per cent the third year. At the end of the second year after deducting the twenty-five per cent for loss, and estimating the number thus left to be composed of one-third females, which would cast on an average 250 eggs apiece, there would be added to the stock 281,250,000. Estimating that there will be a loss of seventy-five per cent of this number we have left 70,312,500. At the end of the third year we would have 1,068,750 spawning females casting on an average 450 eggs each, amounting to 480,937,500. Deducting from this amount seventy-five per cent for loss, and we have left 120,234,375. These added to the original plant, after having deducted therefrom for loss on the original plant twenty-five, ten and five per cent for the three years, and we have left as the result of a 5,000,000 plant 193,753,125.

'Now let us take 100,000 yearling trout: At the end of the first year after planting we deduct ten per cent for the mortality in the adult fish which leaves us 90,000. Of this number one-third being females, we would have 30,000 spawning fish which would cast on an average of 250 eggs apiece. This would give us 7,500,000 and deducting 75 per cent for mortality we have left 1,875,000. At the end of the second year after planting after having deducted five per cent loss for adult fish, 85,500. One-third of these being spawners, will cast 450 eggs each, amounting to 12,825,000. Deduct from this amount seventy-five per cent for mortality and we have left 3,206,250. At the end of the third year after having deducted five per cent for loss we have left 81,225 fish. One-third of this number being females will cast on an average 900 eggs to each fish amounting to 24,367,500. From this amount deduct seventy-five per cent for loss, leaving 6,091,875.

'At the end of the third year we must also take into consideration the fry hatched from the fish hatched at the end of the first year which will have arrived at their first spawning age. This number will amount to 1,875,000. From this amount

deduct twenty-five per cent for mortality and we have 1,406,250. One-third of these being females leaves 468,750 spawners, which will cast 250 eggs apiece amounting to 117,187,500. Deducting from this quantity a loss of seventy-five per cent, and we have left 29,296,875. The above amounts added together make the total result of the planting of 100,000 yearling trout at the end of a three-year period amount to 40,551,225 as against 193,753,125 as the result of the fry planting of 5,000,000.

'Considering the results, therefore, of fry planting, from which practically all the results we have are due, we must assume that it has been eminently successful, and when we consider the cheapness with which this work is done it would seem

that the ample success of fry planting is simply incontestable.'

A thorough study of the whole question as an expert has convinced me that the planting of young fry as carried out in connection with Dominion hatcheries has not only had substantial results, but results which could not be equalled by any other method. The limits of this report preclude a statement of the grounds upon which this opinion is based; but recognized authorities can be quoted extensively, all supporting the claim that the planting of young fry is an undoubted benefit. The following passage from a letter recently received from a widely known angler of long experience in Eastern Ontario may be quoted in proof:—

'The good angling here this past season has firmly convinced us, that the gradual increase of trout in our lake, for last 10 years, has been caused by the fry sent us from the Ottawa Hatchery. We hope next spring to receive a larger quantity.

'We would be pleased to have the close season for salmon-trout changed—say, to commence October 15, instead of November 1. This year the fish were through

spawning before October 28.

In other countries the Canadian system, where adopted, has been regarded as eminently successful. Thus I noticed in the Irish Fisheries Report five or six years ago that Mr. R. McLure wrote of salmon hatching operations on the River Blackwater that the planting of fry, say six, seven or eight weeks after hatching, had had undoubted beneficial results. He wrote (Feb. 16, 1895):

'On the Kerry Blackwater we have this year laid down over 100,000 ova and expect to succeed in getting from this quantity 90,000 to turn out in the streams and tributaries in the main river. We have for many years successfully hatched out about the same quantity with very good results. We have always removed the

fish at about two months old to the minor streams.

'It would entail expensive arrangements to keep them in ponds, and I am not

sure that very much better results would be obtained by doing so.

'The river is teeming with salmon this year; the owner spends about five pounds a week employing bailiffs during the spawning season when salmon are so easily destroyed by poachers.

'Artificial propagation on an inexpensive scale is in my humble opinion one

of the best ways of developing the Irish salmon fisheries.

'I believe the Inspectors of Irish Fisheries, who are able men, would be in a position to do good service to our salmon fisheries if they had some fund placed at their disposal to initiate and encourage artificial propagation extensively in this

country.'

If the fry are kept more than six or seven weeks systematic feeding must be resorted to. At the Restigouche Hatchery Mr. Alex. Mowat was granted permission to retain and rear 10,000 sea salmon fry until they were six months old and many of them fully three inches in length. This very successful attempt is referred to in the subjoined report by the officer named; but as already stated I propose to reserve my remarks for a future season upon the vexed question, 'Is the raising of fingerlings an established advantage?"

During the season 1898:99 a total quantity of fry was raised in all the hatcheries operated amounting to 222,350,000, a considerable advance over the

preceding year.

It is possible to demonstrate beyond reasonable doubt that the stocking ef waters with artificially hatched fry has been completely successful in restricted waters where the results could be tested and observed. The department has on record many instances of confined waters where the benefit could be shown by con-

vincing proof. In our great salmon rivers these benefits white less convincingly demonstrated are almost universally admitted by sportsmen and net fishermen. The residents upon such rivers would view with alarm the entire stoppage of fishhatching operations. It must be admitted, however, that it is far less difficult to test the results of whitefish planting in the great lakes. Countless millions have been placed in all the more important inland waters of the Dominion, but opinions of the most opposite character prevail as to the results. In such a vast inland sea as Lake Erie the benefits have been repeatedly questioned. These once prolific waters appear to have been largely denuded of whitefish, and both Canadian and U.S. fishermen have come to regard Lake Erie as now mainly inhabited by the so-called lake herring or lesser whitefish. To the surprise of the most experienced men the last two years have witnessed a sudden and astonishing return of former plenty, and in the fall of 1899 the Canadian hatchery could have been filled with ease ten times over, so numerous were the schools of whitefish coming up out of the lake. On the U.S. side of these waters it has been the same. The New York Forest and Stream (December 16, 1899), referred to this amazing abundance of adult fish returning, as in former years of plenty, to the great spawning grounds of the Detroit River, and expressed itself in these terms:— In the Detroit River and the western end of Lake Erie there have been phenomenal runs of whitefish. The fishermen have made enormous catches, and the U.S. Commissioner will probably take 400,000,000 eggs of this important fish.'

The prevalent opinion, and it is a reasonable one, is that the whitefish fish-hatcheries are responsible for this improvement in the supply. Certainly the fisheries on the lake and in the river have been pursued with undiminished vigour during recent years, and no special effort has been made to curtail the catch and to encourage the natural multiplication of the species, beyond the protection afford by existting fishery regulations. These regulations in the Canadian portion of the waters of the great lakes have, it is true, been to some extent abortive on account of the total absence of restrictions upon the American side, or at any rate the very lax and ineffective enforcement of existing regulations in the several adjoining States. International Commissioners in 1896 pointed out that the United States nets at the western end of Lake Erie had been multiplied beyond reason and should be reduced by at least one-half, and they recommended extended fish-hatching operations as a mean of improving the whitefish supply. They said 'While no positive evidence of 'the success of fish-culture on Lake Erie has been adduced, owing to the fact that the 'whitefish fry there planted represent the same variety which naturally inhabits the 'lake, we are confident that the supply of that species has been materially benefited thereby. As the advantages to be gained by this means must be measured by the quantity of young fish returned to the water, and as the stock of whitefish has been 'so greatly depleted, we strongly urge that the scope of the operations in this direc-'tion be increased to the fullest extent possible. We do not recognize the present 'need of propagating other species than the whitefish, unless it be the wall-eved pike. 'which has already received some attention in that respect.'

The following table shows the respective quantities of each species successfully hatched and planted in the various waters.

QUANTITIES OF FRY DISTRIBUTED.

The following table shows the numbers planted of various species propagated:—

| Salmon (Salmo salar) | 7,710,000 |
|-----------------------------------------------|-----------------------|
| Sockeye (Pacific) salmon (Oncorhynchus nerka) | 4,742,000 |
| Great Lake trout (Salvelinus namaycush) | 2,778,000 |
| Lake whitefish (Coregonus clupeiformis) | 118,000,000 |
| Lobsters (Homarus americanus) | |
| , | , - , - |

222,330,000

For facility of reference, the further table below specifies the name and location of each hatchery, also the quantities of young fish and of eggs in an advanced condition supplied by each establishment, respectively, and the species of fry or the kind of eggs so distributed during the season.

| No. | Name of Hatchery. | Number of Fry distributed. | Number of Eggs sent to other Hatcheries. | Number of Eggs re- ceived from other Hatcheries. | Species. |
|-------------|---------------------|--------------------------------|---------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Bedford, N.S. | 1,025,000 3,000,000 | | | Atlantic salmon. Lake whitefish. |
| 9 | Bay View, N.S. | 100,000,000 | | 3,000,000 | |
| $\tilde{3}$ | Sydney, N.S. | Not in operation. | 1 | | |
| 4 | Dunk River, P.E.1 | 11 11 | | | |
| õ | St. John River, N.B | 950,000 | | 1,200,000 | Atlantic salmon. |
| | | 230,000 | | | Great Lake trout. |
| | Miramichi, N.B. | 2,800,000 | | 3,000,000 | Lake whitefish. |
| 6 | Miramichi, N.B | 1,605,000 | 300,000 | ! ' | Atlantic salmon. |
| | Restigouche, P.Q | 2,025,000 | 250,000 | | 11 |
| 8 | Gaspé, P.Q | Not in operation. 2,125,000 | | : | A 41 4 1 |
| 10 | Tadoussac, P.Q | 2,125,000 | | | Atlantic salmon. Lake whitefish, |
| 10 | Magog, P.Q. | 148,000 | | | Great Lake trout. |
| 11 | Newcastle, Ont | 1,100,000 | 1,900,000 | | Great Dake trout. |
| | " " " | 2,950,000 | 1,000,000 | | Lake whitefish. |
| 12 | Sandwich, Ont | 73,000,000 | 15,000,000 | 0,000,000 | n in the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of |
| | Ottawa, Ont. | 2,400,000 | | | ., |
| | | 1,300,000 | J | 1,500,000 | Great Lake trout. |
| 14 | Fraser River, B.C. | 4,742,000 | | | Sockeye salmon. |
| | Selkirk, Man | 20,000,000 | į | ! · · · · · · · · · · · · · · · | Lake whitefish. |
| | Total | 222,350,000 | 17,450,000 | 19,550,000 | |

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STATEMENT showing the Places where, and the Years in which, the several Fish Establishment, annually, since they

| Van | | Ontario. | | QUEBEC. | | | | | |
|-----------|---------------|---------------|-----------------------------------------|------------|------------|------------|-------------|--|--|
| Year. | Newcastle. | Sandwich. | Ottawa. | Magog. | Tadoussac. | Gaspé. | Ristigouche | | |
| | Fry. | Fry. | Fry. | Fry. | Fry. | Fry. | Fry. | | |
| 1868 - 73 | | | | | | | | | |
| 1874 | | | | | | . . | 100,0 | | |
| 1875 | | | | | 60,000 | 110,000 | | | |
| 1876 | | 8,000,000 | · . • . • • • • • • • • • • • • • • • • | | 150,000 | 50,000 | | | |
| 1877 | | | | | 1,180,000 | 1,051,000 | | | |
| 1878 | | | | | 707,000 | 650,000 | | | |
| 1879 | | 12,000,000 | | | 1,250,000 | 1,597,000 | 1,470,0 | | |
| 1880 | | | | | | 730,000 | | | |
| 1881 | | | | 200,000 | | 500,000 | | | |
| 1882 | | | | | 660,000 | 530,000 | 1,400,0 | | |
| 1883 | | | | | 995,000 | 520,000 | 300,0 | | |
| 1884 | | | | | 985,000 | 859,000 | 940,0 | | |
| 1885 | 5,700,000 | | · · · · · · · · · · · · · · · · · · · | 300,000 | 720,000 | 290,000 | 660,0 | | |
| 1886 | 6,451,000 | | | 1,400,000 | 1,627,000 | 576,000 | 1,380,0 | | |
| 1887 | | | | 675,000 | 900,000 | 630,000 | 1,500,0 | | |
| 1883 | 8,076,000 | 56,000,000 | | 3,475,000 | 850,000 | 800,000 | 1,720,0 | | |
| 1889 | | 21,000,000 | | 2,800,000 | 1,600,000 | 450,000 | 1.280,0 | | |
| 1890 | 7,736,000 | 52,000,000 | 5,732,000 | 2,875,000 | 1,700,000 | 806,000 | 2,396,0 | | |
| 1891 | 7,807,500 | 75,000,000 | 7,043,000 | 3,050,000 | 1,300,000 | 1,000,000 | 1,750,0 | | |
| 1892 | 4,823,500 | 44,500,000 | 4,909,000 | 2,400,000 | | 965,000 | | | |
| 1893 | 9,835,000 | 68,000,000 | 6,208,000 | 3,600,000 | | 910,000 | | | |
| 1894 | 6,000,000 | 47,000,000 | 4,480,000 | | | 859,000 | | | |
| 1895 | 6,000,000 | 73,000,000 | 3,210,000 | | | 675,000 | | | |
| 1896 | 5,200,000 | 61,000,000 | 3,950,000 | | | 300,000 | | | |
| 1897 | | | 4,100,000 | | | 1,100,000 | | | |
| 1898 | 4,325,000 | | 3,020,000 | | | 1,100,000 | 1,135.0 | | |
| 1899 | | | 3,700,000 | | | •••••• | 2,025, | | |
| Totals | . 125,375,200 | 1,125,500,000 | 46,353,000 | 41,943,000 | 32,989,000 | 15,949,000 | 32,249,0 | | |

Hatcheries have been erected; also the number of Fry distributed from each were built, including the Year 1899.

| New Brunswick. | | N | Iova Scoti | Α. | P. E. Island. | British Columbia | CMBIA MANITOBA | | |
|-------------------|--------------------|-----------|------------|---------------------------------------|------------------|---------------------|----------------|-----------------------------------------------------|--|
| 1 iramichi | St. John River. | Bedford. | Sydney. | Lobster Hatchery, Bay View. | Dunk River. | Fraser River. | Selkirk. | Totals. | |
| Fry. | Fry. | Fry. | Fry. | Fry. | Fry. | Fry. | Fry. | Fry. | |
| | | | | | | | | 1,070,000 | |
| | | | | · · · · · · · · · · · · · · · · · · · | | | | $\begin{array}{c} 510,000 \\ 1,570,000 \end{array}$ | |
| | | | | | | | | 1,570,000 | |
| 60,000 | | | | | | | | 9,655,000 | |
| | | | | | | | | 13,451,000 | |
| | , | 1,400,000 | | | | | | 27,042,000 | |
| | | | | | | | [. .] | 21,684,700 | |
| 805,000 | 170,600 | 730,000 | | | | | | 21,013,000 | |
| 770,000 | 50,000 | 680,000 | | | | | | 22,949,000 | |
| 640,000 | 588,000 | 850,000 | | | 1,060,000 | | | 55,859,000 | |
| 925,000 | 72,600 | 800,000 | 659,060 | | 1,210,000 | | | 83,784,600 | |
| 795,000 | 811,000 | 1,000,000 | 853,000 | | 1,000,000 | | | 53,143,000 | |
| 900,000 | 155,000 | 670,000 | 772,000 | | 1,100,000 | | | 81,067,000 | |
| 945,000 | 2,181,000 | 960,000 | 1.179,000 | | 400,000 | 2,625,000 | | 76,724,000 | |
| 900,000 | 2,479,000 | 4.230,000 | 1,415,000 | | 500,000 | 4,414,000 | | 79,273,000 | |
| 1,290,000 | 4,142,000 | 4,390,000 | | | | | | 88,109,000 | |
| 850,000 | 3,570,000 | 3,850,000 | 2 034 000 | | | 4.419.000 | | 47,700,000 | |
| 1,022,000 | 3,492,000 | | | | | 6.640.000 | | 90,213,000 | |
| 1,503,000 | 3,165,000 | | 1,000,000 | | | 3 603 800 | | 115,772,300 | |
| 1,310,000 | 2,378,000 | | 690,000 | | | | | 135,959,500 | |
| 975,000 | 3,299,000 | | 0.70,000 | 153,600,000 | | 5,764,000 | | 258,314,000 | |
| 1.010,000 | 4.096.000 | | 988 000 | 160,000,000 | | | 14.500.000 | 254,919,000 | |
| 1,200,000 | 4,060,000 | | | 168,200,000 | | | | 294,040,000 | |
| 1,430,000 | 4,068,000 | | | 100,000,000 | | | | 202,459,500 | |
| 1,558,000 | 4,155,000 | | 496,000 | 00,000,000 | | 5,928,000 | | 198,859,000 | |
| | | | , | | | | | | |
| 1,557,000 | | | | | | | | 192,477,000 | |
| 1,605,000 | 3,980,000 | 4,025,000 | | 100,000,000 | | 4,742,000 | 20,000,000 | 222,350,000 | |
| 24,270,000 | 50,202,200 | | | | | | 67,000,000 | 2,650,468,200 | |

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It should be added that a further new step was taken during last season, viz: the hatching of the famous game-fish the Rainbow trout. This was done at the Bedford Salmon Hatchery, N.S., and is referred to in the report on the operations at that establishment on a subsequent page. The work was undertaken at the suggestion, and with the co-operation, of the Nova Scotia Game and Fishing Society. This society purchased in Caledonia, State of New York, 25,000 eggs of the Californian The department also secured a similar quantity and the entire shipment was transported to Bedford in charge of the department's officer at the hatchery there. They did well and the loss during incubation was extremely small. The fry were distributed in certain waters in the counties of Halifax and King's, N.S., and the result of the introduction of this western fish into eastern Canadian lakes and streams will be watched with interest. Opinions are divided as to the game qualities of this species after transplantation; but it is universally admitted to be, in many respects, one of the finest of our species of mountain trout. These fry, 46.100 in number, together with the brook trout fry hatched at the South Esk establishment N.B., viz: 28,000 incubated by arrangement with the New Brunswick Provincial authorities. if added to the total quantity of the fry of commercial fish hatched and planted, brings the grand total up to 222,424,100, a most creditable result in view of the strict economy exercised in regard to expenditure and the reduced appropriation available for fish-culture during the past season.

I have the honour to be, sir,

Your obedient servant,

EDWARD E. PRINCE, Dominion Commissioner of Fisheries.

APPENDICES TO FISH-CULTURE REPORT.

1. BEDFORD HATCHERY, NOVA SCOTIA.

BEDFORD, December 9, 1899.

50 000

Prof. E. E. Prince,
Dominion Commissioner of Fisheries,
Ottawa.

SIR,—I beg to submit my annual report of work done at the Bedford hatchery

for the year 1899.

In November, 1898, I received from the retaining pond at Carleton, N.B., 900,000 salmon eggs, and on April 12 last, 300,000 semi hatched salmon eggs from the Miramichi hatchery, also in March last, 3,000,000 whitefish eggs from the hatchery

at Sandwich, Ontario.

On April 4 last, under instructions from the department, I proceeded to Caledonia, New York State, and purchased 25,000 eggs of the Rainbow or California trout. I also took charge of 25,000 eggs for the Halifax Game and Fish Club, all of which were laid down in the troughs here and with but a very small loss were hatched and distributed in lakes and rivers named below.

Whitefish fry.

MaPhanson's Lake Picton Country N S

| McPherson's Lake, Pictou County, N.S | 50,000 |
|----------------------------------------|-----------|
| Goshen Lake, Antigonish County, N.S | 200,000 |
| Brazil Lake, Yarmouth County, N.S | 800,000 |
| Paradise Lake, Annapolis County, N.S | 700,000 |
| Lake Au Law, Inverness County, N.S | 800,000 |
| Total | 3,000,000 |
| Salmon fry. | |
| Nine Mile River, Halifax County, N.S | 50,000 |
| Rodden River, Halifax County, N.S. | 50,000 |
| Pennant River, Halifax County, N.S | 75,000 |
| Herbert River, Hants County, N.S | 50,000 |
| Avon River, Hants County, N.S | 100,000 |
| Meander River, Hants County, N.S | 100,000 |
| Cornwallis River, King's County, N.S | 50,000 |
| Gaspereaux River, King's County, N.S. | 150,000 |
| Annapolis River, Annapolis County, N.S | 150,000 |
| East River, Pictou County, N.S | 50,000 |
| Cariboo River, Pictou County, N.S | 50,000 |
| Lochabar Lake, Antigonish County, N.S | 25,000 |
| Vernon River, P.E.I | 75,000 |
| Murray River, P.E.I | 25,000 |
| Fox River, P.E.I | 25,000 |
| Total | 1,025,000 |

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Rainbow Trout fry.

| Chocolate Lake, Halifax County | 4 ,000 4 .000 |
|-----------------------------------------------------------------------|--------------------------------|
| Anderson's Lake, Halifax County | 3,000 |
| Bennett Lake, Halifax County Cranberry and Flat Lake, Halifax County | 6,000 6,000 |
| Coldbrook Stream, King's County | 100 |
| Halifax Fish and Game Club | 23,100 23,000 |
| Total | 46,100 |

This season I kept in the breeding troughs about 100 each of salmon and Rainbow troutfry and fed them upon beef liver. The Rainbows did well and grew rapidly; some of them were $3\frac{1}{2}$ inches long in September, when I planted them in Coldbrook Stream. As the troughs had to be renewed I could not retain the fry longer in the batchery.

The salmon fry could not stand the warm water in July, all died, the tempera-

ture of the water at that time was 74°.

I am of the opinion that any effort to raise salmon, brook or sea trout to the fingerling or yearling stage would not be successful here as the water gets too warm for them in the summer, but Rainbows would do fairly well. Although the Rainbow trout is a good game fish, an active biter and makes a strong fight, giving great sport to the angler, I think that it would be a great mistake to introduce them into waters where our native trout abounds. Where food is plentiful, and waters moderately cool, the Rainbows will grow fast and attain a weight of from 5 lbs. to 10 lbs. and will no doubt soon destroy the native trout of smaller size. The Rainbow trout are not as fine a fish for food as our native species and the flesh will not keep firm long after being taken out of the water.

Under instructions from the department a new set of breeding troughs were constructed to replace the old ones which had become so bad that they would not

hold water.

Next season it will be necessary to shingle the entire roof and paint the walls

of the hatchery which look very dingy and bare.

Last month I obtained at the retaining Pond Carleton, N.B., 1,000,000 salmon eggs which are laid down in the new breeding troughs.

I am, sir,

Your obedient servant,

ALFRED OGDEN.

2. BAYVIEW LOBSTER HATCHERY, NOVA SCOTIA.

BEDFORD, N.S., December 9, 1899.

Prof. E. E. Prince,
Dominion Commissioner of Fisheries,
Ottawa.

Sir,-I beg to submit my annual report of the work done at the Bay View

lobster hatchery for the season of 1899.

I am pleased to be able to state that the season's output of fry exceeds that of last year by twenty millions, not that there has been any increase in the supply of ova upon the old fishing grounds, but on account of extra exertions having been male in collecting ova on new grounds, a greater distance from the hatchery than could be covered previously. It has been the practice heretofore to collect ova from the lobster factories, and convey it to the hatchery, in large buckets, kept cool by changing the water frequently while in transit. This season I adopted a new plan, by constructing boxes filled with trays, the frames of which are made of wood and covered with fleecy cotton. Each box will contain about 3,000,000 eggs, and in cool weather can be carried a long distance and kept in perfect order. This method enables the steamer when collecting ova to cover more ground without loss of eggs, or delay in stormy weather. It also saves coal, water and labour, as the eggs can be kept in these boxes for several days in the hatchery before being placed into the jars. This season I had 15,000,000 eggs kept in boxes, ready to place in jars before starting the steam pump. Under the old system it would be necessary to get up steam for the first million eggs brought to the hatchery. I arrived at Bay View on May 16, and after getting the hatchery in good running order, commenced to run the steam pump on the 27th of that month. The steamer May Queen commenced work on May 25, and was employed thirty days in collecting ova and distributing fry. Ova were collected from fifteen factories between Caribou and Saddle Islands, around Pictou Island, and the north shore to Cape John. One trip was made to Canso and 12,000,000 eggs received there. The first fry seen in the jars was on June 14, distribution commenced ten days later, and on July 8, there had been planted in the waters between Caribou and Pictou Island 100,000,000 young lobsters.

Each year adds more factories on our coast and more traps on the fishing grounds,

and it is a surprise to all that the fishery is holding out so long.

About all the fry that have been planted from the Bay View hatchery have been placed in Pictou Bay, and around Pictou Island, and I agree with the packers and fishermen who believe that the good fishing around this locality is largely due to the hatchery.

As previously reported the wharf requires repairing, and a new fresh water reservoir will be needed next spring, as wood will rot and decay when brought into

contact with water.

In all other respects the hatchery is in fair order and the cost of necessary repairs will be light for next season.

I am, sir,

Your obedient servant,

ALFRED OGDEN.

3. ST. JOHN RIVER HATCHERY, NEW BRUNSWICK.

GRAND FALLS, N. B., December 30, 1899.

Prof. Edward E. Prince,
Dominion Commissioner of Fisheries,
Ottawa.

SIR,—In compliance with the rules of the department, and in accordance with your instructions contained in your circular of the 4th instant, I have the honour to submit the following statement of the work done at the hatchery in my charge.

In presenting my annual report, for the transactions and the work done and performed at the Rapide des Femmes fish hatchery on the St. John River, for the year 1899, under my supervision, I beg to say that in the fall of 1898, as has already been reported, about 1,200,000 of sea salmon eggs were laid down in this hatchery; and in the month of March of this year an additional supply of fish eggs from Ontario consisting of 3,000,000 whitefish and 250,000 salmon trout eggs arrived at McAdam Junction in care of Mr. William Parker. I met him at McAdam and brought the eggs to this hatchery, they were in fair condition when they arrived and they did tolerably well all through the remainder of the hatching period. There was considerable loss in the salmon-trout eggs, which occurred about the time they were hatching out, but with this exception the results were fairly good.

DISTRIBUTION OF THE FRY.

Whitefish fry.

| Harvey Lake, York County | $320,\!000$ |
|----------------------------------------|-------------|
| Oromocto Lake, York County | 240,000 |
| Lake George, York County | 240,000 |
| Lake Yohoe, York County | 320,000 |
| Baldhead Lake, York County | 240,000 |
| Foster Lake, Charlotte County | 240,000 |
| Washademoac Lake, Queen's County | 320,000 |
| Grand Lake, Queen's County | 320,000 |
| Bolieu's Pond, Victoria County | 240,000 |
| Pond at the hatchery, Victoria County. | 320,000 |
| rond at the natchery, victoria county | 3217,000 |
| - | 2,800,000 |
| DISTRIBUTION OF SALMON-TROUT. | , , |
| Tomiscouata Lake, Temiscouata County | 30,000 |
| Shogomoc Lake, York County | 30,000 |
| Dumphy Pond, York County | 20,000 |
| Managed Andrew Voult County | |
| Magaguadavic Lake, York County | 30,000 |
| Petitcodiac River, Albert County | 40,000 |
| Long Lake, Victoria County | 30,000 |
| St. John River, at the hatchery | 50,000 |
| - | 230,000 |
| Sea salmon fry. | 250,000 |
| Sou our mon ji y. | |
| St. Croix River, Charlotte County | 200,000 |
| Loch Alva, Queens County | 80,000 |
| Skiff Lake, York County | 160,000 |
| Salmon River, Victoria County. | 80,000 |
| Tobique River, Victoria County | 80,000 |
| St. John River, Victoria County | 350,000 |
| of John Miver, victoria County | 550,000 |
| - | 950,000 |

RECAPITULATION.

| Whitefish fry | 230,000 |
|---------------------------------|-----------|
| Total number of try distributed | 3,980,000 |

I might here state that in two instances the salmon-trout fry were planted in localities where they were not intended when they left the hatchery. This was the case with the fry that was put into Lake Temiscouata and Petiteodiac River, the former was intended for Grand Forks Lake, P.Q., and the latter for Livingstone Lake, Albert County, N.B., but in order to preserve the fry from becoming a total loss, they were planted in the waters above referred to.

It is a very risky matter for the department to undertake to fill applications made for young fry when the distance they require to be carried exceeds one hundred and fifty miles: this will apply more especially to salmon-trout fry. Parties applying for young fry do not appear to have the most distant idea of the risk there is carrying fish fry by train when it is not possible to get a change of pure and cold water except at long intervals. A person would suppose that it was a quantity of pickled fish they were applying for. I am of the opinion that some discretionary power should be given to officers in charge of hatcheries, with regard to the distance proposed by some applicants to carry fry and also the class of water and the kind of pond or place where it is intended to plant them. Occasionally we find an artificial pond of very small dimensions with scarcely two or three feet depth of water, or even in some cases not enough to prevent the whole thing from freezing up solid in a cold winter; and others wanting to stock some neglected, stagnant pool not much better than an old frog-pond scarcely fit for German carp to live in.

Collecting the Ova.

On the night of October 24 last, I and my man arrived in St. John West, all of my appliances having got there some time previous. As usual when I went to the pond I found that Mr. O'Brien had everything in first-class order to begin work, with boat, pontoons, seine and men all on hand. Thursday the 26th, I got some salmon put into the fresh-water tanks and in the afternoon I commenced to strip the fish; after I had manipulated two or three salmon, I found that they were not quite ripe, so I concluded not to interfere with them until Monday. On the 30th, Mr. Sheasgreen having arrived, we commenced to strip the fish, and continued so to do until November 9 when I finished. As Mr. Sheasgreen had some business in Fredericton I was alone the last day. The total number of salmon handled, according to my reckoning, was 722, of which there were 429 female and 293 male fish, yielding about 2,545,000 eggs, about one-half of which was sent to Bedford hatchery, and about 1,345,000 for my own hatchery. These figures are laid down as approximate numbers.

Repairs to the underground pipe.

In the early spring of the present year a very heavy freshet arose in the Rapide des Femmes Brook and overflowed the banks of the aqueduct just above where the C.P.R. received water in their tank, and carried away the embankment which was there and was of very inferior construction, and ran down through a field above the hatchery; the soil of the said field being of a sandy and gravelly nature it very soon washed out a large channel, about thirty feet in width and six feet in depth down through the entire field. In its course it stripped fifty-two feet of the underground pipe that supplies the hatchery with water. Consequently it became absolutely necessary to have this part of the washout wharfed up with bush, with earth, and gravel sufficiently high and thick to prevent the pipe from freezing in the winter; it was quite a job and cost nearly eighty dollars, including the repairs to the aque-

duct; but I am confident that it is all secure and safe from the winter frost for some time to come. At present we have an ample supply of water in the hatchery, and all the other arrangements are in good working order. The hatching troughs are all full of salmon eggs. I would therefore respectfully suggest that salmon trout eggs be not sent here this winter as there is no possible place to put them. Of course I can accommodate the usual quantity of whitefish eggs, as they do not hamper or in any way come in contact with the trays containing the salmon eggs.

There is another matter to which I beg to draw your attention. The main dam on the brook is now perfectly staunch and tight and about a foot higher than the old one, therefore in the time of low water it turns the principal part of all the water in the brook into the aqueduct. Consequently, in the time of a high freshet in the spring, such a heavy body is turned into the watercourse that it is liable at any moment to overflow its banks, which might be the cause of another washout; in order to prevent such another occurrence, I would suggest that a small flood gate should be put into the dam, so that the flow of water could be regulated according to circumstances. I think the whole thing would not cost more than ten dollars, and it would be the means of preventing some damage that would be much more expensive. Three new ladders are very much required for the hatchery, one from the ground to the eve of the building and two for the roof, one at each flue or chimney.

This establishment is now in good running order, with an abundant supply of good pure water and a large stock of ova; and it is beautifully and conveniently situated on the bank of the noble St. John River, and about thirty feet from the

Canadian Pacific Railroad.

All of the foregoing is most respectfully submitted.

I am, sir,

Your obedient servant,

CHAS. McCLUSKEY,
Officer in charge.

4. MIRAMICHI HATCHERY, NEW BRUNSWICK.

South Esk, N.B., December 14, 1899.

Prof. E. E. Prince,
Dominion Commissioner of Fisheries,
Ottawa.

Sir,—I have the honour to submit my report on the operations in connection with salmon culture as carried on at this hatchery during the season of 1899.

As stated in my annual report for the year 1898, there were 1,730,000 salmon ova placed in this hatchery during the latter part of October of that year. According to instructions received from the department, I transferred 300,000 of these ova to the hatchery at Bedford, N.S., during the month of March, leaving a balance of 1,430,000. Later on there was 250,000 ova received from the Restigouche hatchery, and placed in the troughs here in good condition, making the total number of salmon ova then in the house 1,680,000. The 250,000 Restigouche ova were applied for by Mr. R. H. Armstrong, of Newcastle, N.B., who is manager for the Miramichi Fish and Game Club. This gentleman was anxious to have a much larger supply of salmon fry planted in the stream which his club controls than could be apportioned from this hatchery, therefore his application to the Restigouche house was necessary. The total loss of ova from, the time of collection until distribution was completed,

amounted to 75,000, leaving a balance of 1,605,000, which were planted in the following stream, viz:—

| Name of River. | Miramichi Fry. | Restigouche Fry. |
|---------------------------------------------------|----------------------------------------|---------------------|
| North-west Miramichi River and tributaries | 450,000 250,000 | 200,000 |
| Little South-west Miramichi River and tributaries | 400,000 170,000 75,000 10,000 | 50,000 |
| Stewart's Brook | 1,355,000 | 250,000 |

These fry were all planted in a strong healthy condition, and as in former years on the best available grounds, and as far up the streams as possible. This part of the work was commenced on June 6, and completed on June 27. In the autumn of 1898 I obtained 28,000 trout ova, from parent fish that were taken from the Bartibogue River by the Provincial Commissioner of Fisheries. The ova hatched in good condition with very little loss, and the commissioner planted the fry in small lots on streams emptying into the St. John and Miramichi Rivers. He reports that the work was attended with complete success.

Repairs.

During the month of July an expenditure of \$140 was allowed for repairing the different appliances in connection with the hatchery. A new sluice and gateway were built in the dam of the retaining pond and several other improvements made about the structure. Two new pontoons for carrying parent fish were built and the old ones repaired. The floor of the hatchery was repaired where it had become decayed from the dampness, and new pipes for carrying the waste water from the different ranges of troughs, were put in. The front wall of the building was also stripped and relined. The retaining pond was dredged and the sediment that had settled there during the spring freshet was removed, in order to give a clean gravelly bottom. The hatching trays and troughs were also varnished and all appliances put in good condition. Considerable trouble was experienced in repairing the pipes leading from the supply dam to the hatchery, and owing to this difficulty the total cost of repairing was increased about \$25 over the amount asked for in the estimate, but this extra expenditure has been well repaid, by obtaining an excellent supply of water. Next year it will be necessary to replace several of the present hatching troughs with new ones, as they are becoming decayed and leaky in the bottom. The supply tank will also need some repairing, but this work will not incur any very large expenditure.

Capture of Parent Salmon.

On September 13 I received telegraphed instructions from the department to proceed with the work of procuring parent fish in the same way as in former years. This was about ten days later than the time this work is usually commenced. After repairing the seine and nets, the fishermen, who were under the direction of the assistant officer, immediately proceeded with the work of seining in the pools above the head of the tide on the North-west Miramichi. Large numbers of fish had passed up into those pools during the months of July and August, and all the fish required were obtained from these pools, except those taken by the set net on the Little South-west Miramichi. The first fish were obtained on September 20 and from that

date until the work was completed on October 24, the total number of fish taken was 378. Of this number, 81 were taken in the set net on the Little South-west, and the remaining 297 were obtained by seining the pools on the North-west Miramichi. The total number consisted of 247 females and 141 males. The cost of procuring this number of fish was \$501.22, showing the average cost of each to be \$1.33. The assistant officer reports that the pools were literally alive with fish when the work of seining commenced; in some pools as many as 200 grilse being liberated from the seine. When it is remembered that only four miles of one branch of this river is operated on with the seine, for the purpose of obtaining parent salmon for this hatchery, and that nearly 300 salmon were obtained therefrom, it will give a slight idea of the immense number of fish that must be in the waters of the Miramichi. The late October run of salmon were also very plentiful, but our supply was obtained before they could reach the pools above tide head, as the water continued very low all through the season.

Collection of Ova.

On October 17 the work of separating the fish in the retaining pond was commenced, and they were found to be in excellent condition. Quite a number of the fish were fed for stripping at this date, which is about the earliest that the fish in this river have ever been found to be ripe. The collection of ova continued until October 28, when there was still a balance of 47 females in the pond that were not The assistant having then been instructed to proceed to St. John to assist in the spawning operations at Carleton Pond, these fish were allowed to remain until They were then found to be in fit condition for manipulation and the work of collecting ova was completed on November 13. The total number of ovaobtained was 1,715,000. If the department sees fit to make a transfer to any of the other hatcheries, not fully stocked, about 300,000 of this number could be removed, and still leave as many as can be safely carried without the erection of extra hatching space. The Provincial Commissioner did not collect any parent trout this season, and this is very disappointing to parties who have been applying for these fry in small lots from nearly every part of the province. In my opinion it would be advisable for the department to allow a certain number of these fish to be taken next year and the ova placed in this hatchery, as the expense that would be incurred would amount to very little over the present ordinary routine expenditure, and as the hatching of trout and salmon can be successfully carried on together. In concluding this report I may say that the salmon fishing on this river during the past season has been very satisfactory, the net fishermen having made better catches than for some years past. In some cases the anglers were not as fortunate as in former years, but this was accounted for by the water being very low during the early part of the season. The parties who were on the rivers later in the summer made excellent scores, and on the whole the total catch of salmon considerably exceeded that of the two former years. The reports received by me from the anglers, as well as the various fish dealers, in regard to the results of the operations at this hatchery, are very gratifying, and there is abundant evidence to prove that the large annual output of artificially hatched fry is the main factor in supplying the steadily increasing demand that is being made on the salmon fishery of our river from year to year. During the past season the grilse were very abundant, and I would urge the department to instruct the protective officers to give these young salmon the best protection possible, in our inland waters, as upon them depends the future supply of mature fish. The importance of the salmon fishery should not be overlooked in any way, and every effort will be made to increase the usefulness of this hatchery in assisting to keep up the supply by stocking the streams with strong healthy fry. This year's supply of ova is, at present, in excellent condition and another large output of fry next season is assured.

Submitting all for your consideration.

I am, sir, your obedient servant,

5. RESTIGOUCHE HATCHERY, QUEBEC.

RESTIGOUCHE HATCHERY, December 1, 1899.

Prof. E. E. Prince, Dominion Commissioner of Fisheries, Ottawa.

Sir,—I have the honour to submit the following report re the Restigouche

hatchery during the past year.

As shown in a previous report 2,500,000 fertilized eggs were deposited in the hatching trays at Dee Side in the autumn of 1898, from which crop of eggs were hatched 2,275,000 fry. These were planted in the following localities and streams:—

| June 15-20, Kedgwick River, 55 miles from hatchery 400,000 |
|------------------------------------------------------------------------|
| " 21-27, Main Restigouche between hatchery and Cross Pt 810,000 |
| " 27-30, Upsalquitch River above Falls, 20 miles from hatchery 400,000 |
| July 1-7, Metapedia River 400,000 |
| 7, Parker Lake, south of Campbellton, 5,000 |
| May 3, eyed eggs shipped to Miramichi hatchery 250,000 |
| July 7, retained in tanks at hatchery |
| |
| Total2.275,000 |

The fry were conveyed to their destination in the floating crates and were distributed in a fine, healthy condition in fairly deep water, covering a large area of the natural spawning grounds of the rivers. This mode of distribution is most perfect: the crates containing from 300,000 to 400,000 fry are towed from fifteen to twenty miles per day, and are so arranged as to permit of the escape and liberation of the fry to be constantly going on while passing up and down the river. Only the select places high up the rivers are chosen for the planting.

Of the 5,000 fry planted in Parker Lake, Mr. Prichard, the proprietor of the property, says he saw numbers of these little fish in the lake a week after they were planted, active and healthy as could be. We have already succeeded in growing

them in this lake to 2½ pounds weight.

As regards the 10,000 fry retained at the hatchery in open air tanks until six months old, the experiment was most successful. Many of these little fish were fully 3 inches in length when liberated in the autumn. The food for the fry consists of pulverized liver and raw fish, the fish only being used as a fluid food, and the liver grated into powder. A great amount of attention and care must attend the work of feeding the fry and keeping all dead and decayed matter removed from the tanks. I am confident that from the trial made during the past summer at the Dee Side hatchery, that large numbers of the fry can be fed and reared in the tanks for at least six months before being liberated.

The Departmental Nets at Tide Head.

The retaining pond was made ready as quickly as possible in the spring, and the two nets got in operation, one on the 1st June, the other on the 10th. The following is a detailed record of the catch as kept in the two daily diaries for 1898 and 1899:—

| Date. | Murray Island Station, 1899. | Pitts Creek Station, 1899. | Murray Island Station, 1898. | Pitts Creek Station, 1898. |
|-------------------|-----------------------------------------------------------------------|-------------------------------|---------------------------------|-------------------------------|
| June 1 | 7 | | 10 | |
| ıı 2 | Nil. | | 8 | |
| " 3 1 | 6 Nil. | | 15 16 | |
| 5 | Nil. | | Nil. | |
| n 6 | $\frac{3}{4}$ | | Nil. | |
| " 7 | 3 | | 20 8 | |
| n 9 | 3 | | 16 | |
| " 10 | Nil. Nil. | 1 | 7 | 7 5 |
| " 11 | Nil. | Nil. Nil. | 25 Nil. | Nil. |
| 13 | Nil. | 2 | Nil. | Nil. |
| ıı 14 | • 4 8 | Nil. | Nil. | 2 |
| " 15 " 16 | 19 | Nil. | Nil. Nil. | 15 3 |
| 17 | 4 | 5 | 34 | Nil. |
| " 18 " 19 | Nil. Nil. | Nil. Nil. | 17 N:1 | 5 |
| " 19: " 20 | 6 | 7 | Nil. Nil. | Nil. Nil. |
| 21 | 11 | ż | 15 | 3 |
| " 22 ¹ | $\frac{6}{7}$ | 8 Nil. | Nil. | Nil. |
| 11 24 | 10 | 5 | . 8 ! 4 | Nil. |
| 25 | Nil. | Nil. | 2 | 1 |
| 26 | Nil. 6 | Nil. | Nil. | Nil. |
| " 27 " 28 | 4 | 5 9 | Nil. Nil. | Nil. |
| 29 | 5 | Nil. | 6 | 6 |
| uly 1 | 19 Nil. | Nil. | 9 | 4 3 |
| " 2 | Nil. | Nil. | Nil. | 5 |
| 3 | Nil. | Nil. | Nil. | 4 |
| " 4 " 5 | Nil. | $\frac{1}{3}$ | Nil. Nil. | Nil. Nil. |
| 6 | 4 | Nil. | 4 | Nil. |
| · 7 | 5 | 3 | Nil. | Nil. |
| " 8 " 9 | $\frac{5}{2}$ | 3 Nil. | 5 6 | Nil. |
| 10 | Nil. | Nil. | Nil. | Nil. |
| . 11 | Nil. | 2 | Nil. | Nil. |
| 12 13 | 6 Nil. | Nil. Nil. | Nil. | 3 Na |
| 14 | Nil. | Nil. | Nil. | Nil. Nil. |
| 15 | 4 | 3 | 1 | Nil. |
| 16 17 | $ \begin{array}{c} 1 \\ \text{Nil.} \end{array} $ | Nil. Nil. | | . 3 |
| 18 | Nil. | Nil. | | |
| 19 | | Nil. | | |
| " 20 " 21 | 2 2 3 | 2 | | . . |
| 22 | 1 | | | |
| 23 | 3 | | | |
| | 178 | 73 | 242 | · |

By the above schedule it will be seen the number of spawning fish for 1899 is 251. The manipulation of the fish began on October 18, and continued until November 1, 137 female and 114 male fish were operated upon, yielding about

1,500,000 eggs, these were carefully packed in the hatching trays and conveyed to Flatlands, where they will be deposited in the course of a few days in the new hatchery which is now being constructed. The eggs at the present time are looking sound and in a good condition, they were carefully packed in moss and linen cloth, and are constantly kept damp and at a temperature of 33 degrees Fah. The embryo is now quite visible and I anticipate a successful hatch.

The new Hatchery.

The burning of the Dee Side hatchery on the 6th of August last is greatly to be deplored, particularly as it is well known to be the work of incendiarism. Nearly all the plant of every description was stored in the building at the time and was also destroyed. Therefore the new hatchery which is now being built, including the equipment, will necessitate a large expenditure of money, which otherwise would not have been necessary but for the burning of the Dee Side house.

The present new hatchery is situated at Flat Lands, N.B., some twenty miles

lower down the river from the site of the old one at Dee Side.

The selection of the present site was a very wise one, as it offers every facility for the transportation of eggs and fry, both by rail and water and is quite adjacent to the retaining pond at Tide Head, and will admit of public inspection at all times. A dam of 115 feet long, by 10 high, has already been constructed on the beautiful spring water brook, which will be used as a reservoir and water supply, the large gravelly pond in connection can be utilized for sea trout, and for retaining a number of young salmon until three years old, also smelt can be retained and utilized for food for the salmon fry. On the whole the new hatchery will be the most complete of any in the Dominion, and will offer every facility for the hatching and rearing of large numbers of salmon and trout fry, and if judiciously operated will certainly prove a great factor in regulating and keeping up supplies of fish in this locality. The building will not be entirely completed before next spring but all facilities for the reception and hatching of the eggs will be completed soon, and with your permission it is my intention to equip a portion of the hatching room with galvanized iron tanks so that a large number of the fry may be fed and retained for six months.

General Remarks.

You will notice by the schedule comparing the catches of fish for the pond in 1898 and 1899, the nets took 50 per cent more fish in 1898; this difference cannot be attributed so much to the scarcity of the fish as it is due to natural causes. The first run of salmon passed into the river early in May, and escaped both nets and anglers, and about the time the fish were expected to come, from June 1 to June 10, they were almost nil, consequently poor catches for both netters and anglers and when the best run of fish did enter the river the water had become so clear, the nets so foul, that fish could not be caught.

I will now give a few of the anglers scores made in July, which I believe to be authentic and furnish the best evidence that the rivers were well stocked with fish.

Three rods at Camp Harmony caught twenty-four salmon and twenty grilse in one week. The lessees of the Upsalquitch River killed some eighty fish in eight days fishing. Mr. Dawson's waters gave between forty and fifty fish, and H. B. Holland's waters eighty or ninety salmon. I heard of one man at Kedgwick taking nineteen grilse in one day. I myself at Kedgwick, about August 1, took twenty-four salmon and grilse in a few days. I heard of two gentlemen taking twenty-two salmon at Patapedia during last three days of the fishing season; this was remarkable fishing as it is often difficult to entice salmon to rise to the fly so late in the season, and is the strongest evidence that fish were very plentiful. I have talked with many of the guardians and scowmen, who were unanimous in stating that the salmon were never more plentiful on the spawning grounds of the rivers than this fall. In all my thirty years' experience in the fishery I never knew the grilse to enter the rivers so early

and so plentiful as this season. This is one of the best indications for the healthy condition of the river, and naturally must cause an immense run of adult salmon in the rivers in 1900 or 1901. I heard of a great deal of illegal fishing being done on the heads of the rivers. The provincial guardian at Kedgwick gathered a number of dynamite sticks, which were intended for use by parties of poachers from Madawaska County. The Upsalquitch River is not sufficiently guarded by the lessees. I heard of large numbers of poached salmon being taken there in a few hours.

It would be a great advantage were a capable officer appointed by your department to work in conjunction with the provincial and club guardians, with power to patrol that section from Dalhousie to the heads of the various rivers and see that the law is strictly enforced. This would certainly be the most effective way of conserving

one of the most valuable salmon fisheries in the world.

I am, sir,

Your obedient servant,

ALEXANDER MOWAT.

6. TADOUSSAC HATCHERY, QUEBEC.

TADOUSSAC, December 9, 1899.

To Prof. E. E. PRINCE,
Dominion Commissioner of Fisheries,
Ottawa.

SIR,—I have the honour to submit my annual report of operations in connection with the Tadoussac hatchery for the year 1899. During the month of June I turned out 2,125,000 salmon fry in the rivers tributaries to the Saguenay River and a part in the Mowat's Lakes which is kept as a nursery for the young salmon. The following schedule will show the places where the fry were distributed:

| Roberval Hatche | ry, H. J. Beemer, Esq | 100,000 |
|-------------------|------------------------|-----------|
| Ste. Anne River, | Cousul Van Bruyssel | 30,000 |
| Murray River, Co | ounty Charlevoix | 150,000 |
| River à Mare, | County Chicoutimi | 200,000 |
| Tableau River | 14 | 100,000 |
| St. John River, | " | 100,000 |
| Ste. Marguerite 1 | River, County Saguenay | 500,000 |
| Baude River, | | 300,000 |
| Chisholm River | | 200,000 |
| Mowat's Lakes | 46 | 420,000 |
| Hatchery Lake | | 25,000 |
| | | 2,125,000 |

As usual the distribution in the rivers of the Upper Saguenay was made with the assistance of the steam yacht Forrest. One lot of 100,000 were delivered at the Roberval hatchery; all the expenses paid by H. J. Beemer, Esq., the proprietor of the Roberval hatchery. I have also delivered to the same hatchery about 30,000 salmon-ouananiche fry, being the product of salmon eggs impregnated with the milt of male ouananiche. That lot of eggs was cared for by myself during last winter at the Tadoussac hatchery and the fry delivered in June at the Roberval hatchery in the very best condition, and to prevent any delay, a special train was waiting for the transport of cars from Chicoutimi to Roberval. As the pulling down of the old hatchery had made a large opening in the salmon pond, I have arranged a temporary means of closing the salmon pond by a fence of boards for the bottom and a wire net for the upper part. We have collected from the 200 female salmon kept

in the pond 2.000,000 of eggs now on the trays and looking well. The repairs made in October to the dams of the Hatchery Lake, had a good effect and the water has been rising since, and we have now a large supply for the hatchery. The damages to the building reported last season and detailed in official communications to the department, have also been repaired; nothing but heavy cedar has been used for the cross beams in the cellar, and a sill of cedar also has been placed under the walls all around the building, making of the whole a first-class work. We had to renew the greatest part of the floor as it was all rotten. I have also used cedar deals for the parts of the floor the most exposed to dampness, especially under the long eighty feet tank. A new porch has been made to replace the one carried away by a gale of north-west wind last winter. All the windows exposed to the north-west side are provided with wooden shutters for the night and for the stormy days. I consider the building is in good order for a good many years to come. The first thing wanted for another season, will be some more trays to replace the old wire ones still in use for a certain quantity of eggs. As mentioned in my report of last year, twenty-five large tiu cans will be needed for the next distribution. Those cans could be made here during the winter. As we had had for a good many years past, no difficulty in preserving our supply of parent salmon for the Tadoussac hatchery, I would suggest, to meet the views of the Ste. Marguerite Salmon Club, and to allow the salmon to run up the Saguenay River more freely, to keep our Point Rouge fishery opened Sunday and Monday during the months of May and June, and Saturday, Sunday and Monday during the month of July. As it has been reported before at length, it would be advisable to plant a part of the salmon fry for the Ste. Marguerite River at the head waters; this could be done by landing our cans at Pelletier's Cove in the Upper Saguenly, and then, by overland, to Ste. Marguerite River, a distance of seven miles and a half, in making a rough road. During the summer I had the visit of Mr. Blackie, a gentleman from Toronto, with a letter of introduction from the Honourable the Minister of Marine and Fisheries. As I was anxious to show this gentleman some specimen of our young salmon, I invited him to drive down to the Mowat's Lakes for a day's fishing. Mr. Blackie took twenty-four fine young salmon, very gamy fish. He was delighted with his fishing. In my annual report of last year I spoke of the necessity of stocking those lakes with smelts to be used as a food for the young salmon. I recommend the same thing again this year. The cost of seiving the smelts at Duck River, of taking the lattice boats to Tadoussac, and then the carrying the smelts, in our large distribution cans, to the Mowat's Lakes, will not exceed an expense of fifty dollars. In taking the smelts in October there would be considerable advantage, and in due course they would, no doubt, spawn in the lakes. The dam of the salmon pond will need repairing early next spring in time to receive the new supply of parent salmon for the season 1900. The temporary closing of the pond by a fence of boards and wire nets is not quite safe.

I have the honour to be, sir,

Your obedient scrvant,

L. N. CATELLIER.

7. MAGOG HATCHERY, QUEBEC.

Magog, Que., November 23, 1899.

To Prof. E. E. Prince, Dominion Commissioner of Fisheries. Ottawa.

SIR,-The following report of the operations carried on at the Magog fish hatchery, during the current year, is respectfully submitted.

On February 28 I received at Magog railway station from Mr. Wm. Parker,

3,000,000 whitefish eggs from Sandwich, Ontario, and 150,000 salmon-trout eggs

from Newcastle, Ontario; they all arrived in very good condition, and continued to do well through the period of incubation. The hatchery was in first class condition last season, with a plentiful supply of excellent water.

The distribution of young fry from this hatchery commenced on May 4 and

continued until June 8, in the lakes herein named.

Salmon-trout.

| Nicolet Lake, County of Richmond. Lake Fortin, County of Beauce | 23,000 20,000 30,000 10,000 5,000 10,000 5,000 |
|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| Total | 148,000 |
| Whitefish. | |
| Lake Memphremagog, County of Brome and Stanstead. Lake Massawippi, County of Stanstead | 1,225,000 400,000 500,000 200,000 225,000 200,000 100,000 |
| Total | 2,950,000 |
| Total number of fry distributed | 3,100,000 |

The fry were invariably planted in a sound healthy condition, and on the same waters as selected in former years, and in sections of the lakes where observation showed to be the best adapted for the purpose of planting young fry. I was unable to more than quarter fill applications for fry from the hatchery this season; and in my opinion there will be a still greater number of applications next year. It is hardly necessary to add that there could not be any better evidence of the good work done by the hatchery, than is shown by the increase in the number of applications from year to year.

Repairs.

After the distribution of fry was completed, the hatchery was cleaned and dried, all appliances put in good working order. The hatching troughs and trays were also thoroughly varnished. Later on the whole building was shingled as the old roof had completely rotted away. Within the last two weeks I notice that there is a serious leak at the bottom of the penstock. I will have to take up a part of the floor and see what is the matter. I am afraid it is rotted out as it is constructed of wood.

In all other particulars the outfit of the hatchery is in good working order.

I have the honour to remain, sir,

Your obedient servant,

ALEX. FINLAYSON,
Officer in charge.

8. NEWCASTLE HATCHERY, ONTARIO.

'Newcastle, December 5, 1899.

Prof. E. E. PRINCE,

Dominion Commissioner of Fisheries, Ottawa.

Sir,—I have the honour to submit a report of the fish cultural operations carried on at this hatchery during the past year.

The following schedule will show you the points of distribution, also the numbers and kinds of fry distributed and placed in each locality last spring.

Whitefish.

| Lake Ontario, Hamilton | 300,000 |
|-----------------------------------|-----------|
| " Toronto | 300,000 |
| " Cobourg | 300,000 |
| Bay Quinte, Pictou | 300,000 |
| Belleville | 300,000 |
| Lake Ontario, Consecon | 300,000 |
| Lake Simcoe, Barrie | 300,000 |
| Lake Couchiching, Orillia | 300,000 |
| Georgian Bay, Meaford | 300,000 |
| Lake Ontario, Bowmanville | 125,000 |
| " Newcastle | 125,000 |
| 2.01,000,000 | |
| Total distribution whitefish | 2 950 000 |
| | =,000,000 |
| | |
| Salmon-trout. | |
| Lake Ontario, Toronto | 100,000 |
| " Belleville | 100,000 |
| " Kingston | 100,000 |
| " Cobourg | 50,000 |
| Georgian Bay, Collingwood | 100,000 |
| " Meaford | 100,000 |
| " Wiarton | 150,000 |
| Lake Ontario, Consecon | 50,000 |
| Lakes, Haliburton. | 50,000 |
| " North Hastings Co | 200,000 |
| " Northumberland Co | 100,000 |
| Horonamberiana co | 100,000 |
| Total distribution salmon-trout | 1,100,000 |
| " whitefish | 2,950,000 |
| Eyed eggs shipped to Ottawa | 1,500,000 |
| " "Magog, P.Q | 150,000 |
| " " Grand Falls, N.B | 250,000 |
| Grand Tans, 17.D., | 200,000 |
| Total distribution from Newcastle | 5,950,000 |

I beg to inform you that the fry were all in first class condition and deposited in the different waters.

On January 4 last we had the misfortune of having our water supply cut off, through the dam giving away which necessitated the pumping of water from the stream night and day for ten days. Of this had not occurred we would have had a larger number of fry for distribution. Fortunately, through persistent effort, we came off with not more than a quarter loss.

According to your instructions on September 25, I proceeded to Wiarton with two assistants to procure the usual supply of salmon-trout ova for Newcastle, Ottawa

and other hatcheries in the lower provinces. We succeeded in getting our nets set about October 20 and at our first raising we secured about 120 trays of eggs in first class condition. The weather through the whole season was all that could be desired and our troubles were few. We wound up our operations this season about ten days earlier than last on account of getting an earlier start, during which time we succeeded in collecting about 4,500,000, out of which quantity Mr. John Walker of the Ottawa hatchery received 1,500,000, which leaves a balance of 3,000,000 in this hatchery in good condition and apparently doing well.

According to reports of fishermen and what I have seen myself at Wiarton fish

are more plentiful this year than they have been for many years.

Our plant in Wiarton is now in good condition all and except our pile driver which is about 20 years old. We spent some \$24 in repairing it this year but owing to the rottenness of the frame it is hardly possible to depend on its being serviceable for more than another season. The probable cost of a new one would be about \$100.

The hatchery now is in first class condition. During the past summer it has been thoroughly renovated and painted inside and will not require any more repairs

for some time.

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

> WM. ARMSTRONG, Officer in charge.

9. SANDWICH HATCHERY, ONTARIO.

Sandwich, December 30, 1899.

To Prof. E. E. PRINCE,
Dominion Commissioner of Fisheries,
Ottawa.

SIR,-It is with extreme pleasure that I submit my annual report for the past

year.

According to last year's report this hatchery contained 100,000,000 whitefish eggs, from which were turned out 88,000,000 young fry and semi hatched eggs, which were disposed of as follows:—

Eyed eggs.

| y*** ******************************** | | |
|---------------------------------------|------------|--|
| Newcastle, Ont | 3,000,000 | |
| Ottawa, Ont | 3,000,000 | |
| Magog, Que | 3,000,000 | |
| Bedford, N.S | 3,000,000 | |
| St. John, N.B | 3,000,000 | |
| Total | 15,000,000 | |
| Young fry. | | |
| Point Edward, Lake Huron | 4,000,000 | |
| Mitchell's Bay, Lake St. Clair | 3,000,000 | |
| Peach Island, Lake St. Clair | 3,000,000 | |
| Belle Isle, Detroit River | 3,000,000 | |
| Fighting Island, Detroit River | 4,000,000 | |
| In Bay below Fighting Island | 4,000,000 | |

| Stony Island, Detroit Island Bois Blanc Island, Detroit River In Lake below Bois Blanc Island Pigeon Bay, Lake Erie Bar Point, Lake Erie Colchester, Lake Erie Kingsville, Lake Erie Leamington Lake Erie Rond Eau, Lake Erie Port Stanley, Lake Erie Hamilton, Lake Ontario Niagara, Lake Ontario | 4,000,000 6 000,000 4,000,000 4,000,000 3,000,000 1,000,000 1,000,000 1,000,000 1,000,000 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Hamilton, Lake Ontario | 1,000,000 |
| Toronto, Lake Ontario | 1,000,000 |
| In river at hatchery | 20,000,000 |
| Grand total | 88,000,000 |

All the above fry were placed in the water at the above named points in an excellent condition.

This fall we have in the hatching 100,000,000 whitefish eggs which are in a fine condition.

The total catch of fish this autumn was accounted for as follows:—

| Liberated | 14,500 |
|-----------------------|--------|
| Sold | 2,500 |
| Salted | |
| Used | 60 |
| Hotel Dieu (hospital) | 30 |
| Total | 17,350 |

The following are copies of a couple of letters forwarded to me from two of the best known and oldest French pioneer settlers and fishermen of Essex County. These letters contain some very valuable information in regard to the practical results which are being accomplished by the hatchery here.

SANDWICH WEST, December 26, 1899.

WM. PARKER, Esq., Supt. Sandwich Hatchery.

DEAR SIR,—I had occasion during the fall to visit some of the fishing stations worked by your men for the purpose of gathering spawn for the hatchery, and I must say that I came away more convinced than ever of the great usefulness of that institution. There is no doubt about it, the supply of whitefish in the Detroit River is increasing steadily year by year, and it is equally certain that the increase is due to the hatchery. It may seem strange to assert that artificial means can improve upon nature, and that the spawn extracted from a female whitefish and hatched by artificial means ensures better success than the same spawn would if left to its natural destination; and yet, such is the case. It is not that nature is at fault, but the condition of things has so changed, that what nature could do in the past, is now almost impossible owing to the many obstacles it has to overcome now, which it did not have then. The spawn of whitefish is exposed to so many dangers, taking as it does over five months before it is hatched, and the young fry having to fight its way down to the lakes amidst so many enemies, that it would almost be a wonder if any ever escaped. Of course, years ago, there was so much fish that, notwithstanding the vast amount of spawn destroyed, the supply could always balance the loss. With the spawn hatched in the hatchery it is different. The eggs are brought there safely and manipulated so carefully, that a very small amount is lost, perhaps 12 per cent, and then, the young fry, when hatched, instead of being abandoned to shift for itself until it reaches the lake, is transported there and deposited in places where it is comparatively free from harm. There is another important advantage in artificial hatching, I have seen whitefish spawning; have observed them hundreds of times. The male and the femule come up from the bottom to the surface side by side, and just as they turn to go down again the female emits her spawn in a spray perhaps three feet in diameter, which then sinks to the bottom. Now, sir, do you think that all those eggs are impregnated? My opinion is that a lot of them are not. With the hatchery, however, it is different. The spawn is gathered in vessels and put in contact with the milt for such a length of time as to insure impregnation of all the eggs, so that very few are lost.

The fish caught in the river this year was small, averaging about two pounds. No doubt this is hatchery fish, for the older fish is, by this time, pretty well destroyed. As I had occasion to remark to you before, no whitefish comes back to the river except when it is old enough to spawn. Prior to that, it remains in the lakes; and now, I suppose this fish is coming for the first time or so, and the quantity caught is increasing steadily. The hauls made this year, your men told me, were from 30 to 140, and I know that you could have caught far more fish than you needed for the hatchery. It is not very long ago that you had to fish the whole season and

that you barely caught the number you needed.

Hoping that the one hundred million eggs now in process of hatching, will reach maturity, and that the hatchery under your management will keep on in its successful career, and soon be enlarged.

> I remain, Yours truly,

> > RICHARD GIGNAC.

Petite Cote, Ont., December 27, 1899.

WM. PARKER, Esq., Supt. Sandwich Fish Hatchery.

DEAR SIR,—In regard to the good work being accomplished by the Sandwich fish hatchery in the rivers and lakes in this part of the Dominion I have no hesitation in giving it as my firm opinion that for the last past two years there has been a wonderful increase of whitefish in the Detroit River, and I believe that had fishermen fished this year after the manner in which they fished some thirty or forty years ago, there would have been almost as large a catch as there was then. Therefore, I believe that this hatchery, as well as others maintained in other parts of the Dominion by our Government, are doing a most excellent work.

I desire also to state that in my opinion the pound nets which are allowed to be used to a large extent in Lake Erie are a source of great injury to the whitefish

in the Detroit River.

I hope and trust that the Government will see its way clear to very largely extend the usefulness of the hatchery here under your careful management.

I remain very respecfully,

LOUIS LAFFERTY.

There are some very necessary repairs required about the hatchery, to which I feel it my duty to draw the attention of the department, namely: the foundation under the boilers, pumps, racks and tanks requires to be renewed; a new waste water pipe leading from the hatchery to the river is also required.

I remain,

Your obedient servant,

WILLIAM PARKER. Fishery Officer.

10. OTTAWA HATCHERY, ONTARIO.

OTTAWA November 1, 1899.

Prof. E. E. PRINCE, Commissioner of Fisheries. Ottawa.

SIR,-I have the honour to submit my annual report of the operations carried

on in the Ottawa hatchery during the year 1899.

On November 20, 1898, were received from the Newcastle Ont., Hatchery, about 1,500,000 salmon-trout eggs which were deposited in the hatching troughs in good condition; also in March, 1899, I received about 3,000,000 whitefish eggs from the Sandwich hatchery. The eggs from both hatcheries were in excellent condition. The fry hatched out strong and healthy in the months of April and May, 1899.

The work of distributing the fry was entrusted as in the past three or four years to Mr. Andrew Halkett with the assistance of Mr. A. M. Ross, both officials in the

Fisheries Department.

I am pleased to inform you that the work was done in a very satisfactory manner and even more successful than in the past years, Mr. Halkett having had several years' experience in the distribution of the fry. In order to secure a successful planting of the fry, as this is of principal importance in order to accomplish the best results after the work of incubation is over, I would strongly report in favour of Mr. Halkett and Mr. Ross being appointed again for the same work next spring.

The hatchery is in good order and repair for the coming season's work. I expect

the usual supply of salmon-trout eggs during this month.

The Canadian Fisheries Exhibits and Hatchery have been visited by over 20,000 persons during the year.

The fry having been deposited in the following named waters:

Whitefish.

| • | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--|
| Bass Lake | 300,000 | |
| Humphries Lake | 150,000 | |
| Green Lake | 150,000 | |
| Rock Lake | 300,000 | |
| Rond Lake | 300,000 | |
| Otter Lake | 180,000 | |
| Sharbot Lake | 300,000 | |
| Hurd Lake | 180,000 | |
| Rideau Lake | 300,000 | |
| Mississippi Lake | 240,000 | |
| a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a socioippi a soci | | |
| Total | 2 400 000 | |
| | 2,100,000 | |
| Salmon-trout. | | |
| Rideau Lake | 50,000 | |
| 16 Island Lake | 50,000 | |
| Joliette Lake, No. 7 | 50,000 | |
| Eagle Lake | 20,000 | |
| Sharbot Lake | 40,000 | |
| Long Lake | 40,000 | |
| Rock Lake | 100,000 | |
| Otter Lake | 30,000 | |
| Bass Lake | | |
| | 30,000 | |
| Victoria Lake | 100,000 | |
| Villa Mon Repos (Three Rivers) | 50,000 | |
| Rond Lake | 50,000 | |
| 1a—17 | | |

| Clear Lake | 80,000 |
|-------------------------------------|-----------|
| Hurd Lake | 40,000 |
| Humphries Lake | 30,000 |
| Green Lake | 30,000 |
| Gauthier Lake (St. Jovite) | 60,000 |
| Domain Pond and Stream (Lotbinière) | 100,000 |
| Charleston Lake | 100,000 |
| Whitefish Lake (Gatineau) | 60,000 |
| Joliette | 100,000 |
| Des Sables Lake (Ste. Agathe) | 30,000 |
| Rivens Lake | 60,000 |
| Total | 1,300,000 |

I remain, sir,

Your humble servant,

JOHN WALKER, In charge of Ottawa Hatchery.

11. FRASER RIVER HATCHERY, BRITISH COLUMBIA.

NEW WESTMINSTER, B.C., December 13, 1899.

E. E. PRINCE, Esq.,
Dominion Commissioner of Fisheries,
Ottawa.

SIR,—With regard to the Fraser River hatchery I beg to report that of the total number of eggs 5,502,000 placed in the hatchery in October and November of last year, 4,742,000 were hatched out, 4,262,000 fry being taken to Harrison River and the balance, 480,000, to Lake Pitt.

760,000, nearly 14 per cent of the eggs turned out bad. This high percentage seems to have been mainly occasioned by the muddy condition of the water during a great part of the season. Mr. McNab, at that time inspector and officer in charge, had the dam which had become completely silted up, partially cleaned out and so far, this season, we have not had any trouble with mud.

As I have already stated in the usual report on the work of obtaining parent fish, we secured this season between the 17th September and 21st October 7,496,000 eggs in good condition. Up to date 503,000 bad eggs have been picked out and I see no reason to anticipate that our percentage of bad eggs at the close of the season will exceed ten: indeed I trust that it will turn out less than this.

The season has been very mild, the average temperature of the water to date having been since the first lot of eggs were placed in the troughs, 43°8 as contrasted with a temperature of 39° during the corresponding period last season. The eggs have in consequence progressed very rapidly, quite a number being already on the point of hatching or hatched.

Yesterday in accordance with your instructions, I had 500,000 of the ova, carefully packed shipped on the SS. Warrimoo, consigned to the care of the Colonial Secretary, Sydney, N.S.W., for the New Zealand Government. The eggs were taken from the last consignment to the hatchery and as the steamer's officers have engaged to keep them well iced during the voyage, will, I hope, arrive at their destination in good condition.

The flume for conveying the water from the dam to the hatchery is nearly rotted out, but as I understand the department contemplate making some changes

I did not think it advisable to have it renewed, and succeeded in getting the present flume repaired and made water-tight at a small cost.

The wooden railway used for carrying the eggs to the hatchery from the river

bank and taking back the fry is badly in need of renewal.

Our supply of shipping trays and baskets are also now pretty nearly worn out, and for the last two years we have had to hire or borrow boats for the work at the

spawning grounds and conveying the ova to the steamer at Chilliwhack.

If the hatchery were removed to a site further up the river, say nearer to the present spawning grounds at Morris Creek (and I think more than one suitable site could be found there), it could be operated more effectively and conveniently and at a considerable reduction in the annual expense. I understand that when this hatchery was first started that it was the intention to hatch more than one kind of salmon, and in 1854 and for some seasons subsequently the spring salmon or Quinnat were hatched along with the valuable sockeye salmon. The hatching of spring salmon was discontinued, as the great commercial demand has been almost solely for sockeyes. Recently, however, the other kinds have come into demand both for canning and for curing in various ways. The cohoe, which is a most excellent fish, is now of much market value, while the steelhead and even the dog-salmon is being utilized, whereas both these kinds were formerly dumped back into the river, when taken in the fishermen's nets. This fall there was a desire on the part of certain firms for opportunity to take humpback salmon, and as there is evidently a growing desire to utilize every kind of Pacific salmon, even those which have hitherto been rejected as of little or no value, the question arises as to whether in future operations of the hatchery other species should not be procured and hatched in the Government establishment.

As supplementary to the work of the hatchery I would ask if the department would take into consideration the advisability of making some moderate provision for the protection of the natural spawning beds. Morris Creek, where we now get the spawn, and which may be taken as a type of the spawning creek preferred by the sockeye, is a rapid stream running through a wooded bottom with a gravelly subsoil. The banks being very friable and heavy rains common during the spawning season, the regular bed of the creek frequently gets blocked by accumulations of drift, the water cutting fresh channels in which many of the salmon spawn, the ova being left dry on the subsidence of the freshet and the return of the creek to its original bed.

I have the honour to be, sir,

Your obedient servant,

C. B. SWORD,
Officer in charge.

12. SELKIRK HATCHERY, MANITOBA.

SELKIRK, December 31, 1899.

To Prof. E. E. PRINCE, Commissioner of Fisheries, Ottawa.

Sir,-I beg to submit herewith a report of the operations at the hatchery at

this place during the year 1899.

At the date of my last report we had in stock about thirty millions of whitefish eggs in splendid condition and promising very good results; the season was also favorable, inasmuch as the weather was steady and seasonable, without any marked variations of temperature. But owing to imperfect hatching jars, and being com-

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pelled on account of the muddy condition of the Red River water to complete the hatching with water from the artesian well we did not succeed in bringing out more

than two-thirds or twenty millions of healthy fry.

The question of suitable jars has been under consideration for some time, and it would be a great advantage if the hatchery were supplied with the regulation white-fish jar. I am satisfied our output would have been about 90 per cent of the eggs taken in, and it is safe to say that the jars would have paid for themselves twice over in result during the past two seasons.

As to the disposition of fry. I had two requisitions sent from your office, one from Mr. Fitzgerald, of Grenfel, N.W.T., and another from Mr. Powers, of Elkhorn, Manitoba, both of which I had determined to fill. When the fry were ready for transport I sent a telegram to each of the gentlemen named, and waited a full week for reply, receiving no answer; and the river here being open for quite a distance out into the lake, I decided to plant the whole output as far out in Lake Winnipeg as the ice would permit. This was accordingly done by Mr. Charles E. Page assisted by Mr. J. W. Ward, who report a very successful planting several miles from the mouth of the river in the direction of Grand Marais.

My decision regarding the disposition of the fry was rendered necessary from the fact that the tank in which the fry was held is supplied with water from the artesian well, which is entirely void of fish food and heavily charged with mineral of some sort, and as the food sack was being rapidly absorbed I could not hold

them any longer, and have them in vigorous condition for planting.

On receiving instructions late in September last to procure supply of ova, I at once proceeded to make arrangements similar to those of last season. I left here on Friday, 6th October, for Lake Winnipegosis, and by the 14th had boats, nets and everything else ready for a start up the lake. I decided to go to the north end of the lake, where I found a harbour known as Whiskey Jack Harbour, the most favourable place I have yet seen for our purpose. Fish were there in abundance but not quite ready, by the 18th they began to spawn freely, and by the 22nd we had all the eggs we could handle, in fact, we had more than our trays would accommodate, and I put about one million of well fertilized eggs back into the lake. I arrived at home with my stock of ova on the night of the 25th, and found the hatchery in readiness to start operations, and also found that I had more eggs than the jars would accommodate. After overloading every jar in the building, we were compelled to dump about half a case in the Red River. I estimate seventy-five millions in the jars at starting, and though we started out with bright prospects I regret to say we have not met with the same measure of success as we did last year, owing to the extraordinary season we are experiencing here this winter. The river remaining open for such a length of time, subject to the action of the high winds, the mud we had to contend with was indescribable. This with the higher temperature and overloaded condition of the jars caused considerable banking, consequently we have had double the eggs affected with fungus we had last season. I now see that it would have been wise to put on some extra help for a time, but, nevertheless, if no accident overtakes us between now and the close, our output will be the largest in the history of the institution.

The hatchery building is not in a satisfactory condition; the floor became unsafe a few days after the operations began this year, and is now blocked up with timbers and blocks to enable us to complete this season's work. The foundation is made of 6 x 8 spruce, which if now seven years old and so badly decayed that an entirely new foundation will be absolutely necessary before the building can be used another year. The paint on the building could not have been properly applied when put on in the first instance, as it has now nearly all peeled off, and does not look well. I would certainly suggest that the building receive a good coat of paint

the coming season.

The boiler was retubed in October, and is now in first class condition, nearly as

good as new, and effects quite a saving in fuel.

The pump, although in poor condition on account of gravel sucked up through the supply pipe, is still working, and we hope will continue to do so until the end of the season; but it is a great risk, as has been previously pointed out to depend on

one boiler and pump to operate continuously, night and day for over 200 days without accident, and I would suggest that the institution be furnished with both an auxiliary pump and boiler before undertaking the work of another season.

The suction pipe was a source of annoyance again this year, and a steam tug had to be employed to find it, and dig the sand and gravel from off the mouth of it. I suggested last year that it should be extended several feet out into the river, the cost of doing so would be more than saved, in the repairs to, and tear and wear of the pump.

The tank which has caused so much trouble other seasons by leaking, and which is in a very unsafe condition, has been much tighter this year than last, but will not I fear, stand caulking again, and should be replaced the coming season with a cir-

cular iron bound one.

The premises on three sides are not properly fenced in as they should be, and the evergreen trees and hedges planted by my predecessor to beautify the grounds are daily being destroyed by cattle, horses, running at large which have access to the grounds. There is a dilapidated barbed wire fence on the west side along the street, but it is in such a condition that it has become a menace to all passers by and especially to children, and should be removed at once, and replaced by a less dangerous one.

In the matter of fuel for this season, when I found the price of wood advanced to \$3.50 per cord, I ventured to recommend slabs instead, and I think the ultimate

results will justify me in so doing, and effect a saving of about \$200.

As to the benefits to accrue from the establishing of hatcheries for the restocking of depleted waters I had always been somewhat sceptical. During the past year I have made diligent inquiry from many of the settlers along the lake, particularly the southern part, and nearly all agree that hatcheries are beneficial, and that this one is serving the purpose for which it was intended I am now also convinced, from actual observation that a good percentage of the small fry escape the ravages of the voracious fish which infest these waters, and become in course of time parent fish. In my opinion this hatchery alone is inadequate to restore so large a body of water as Lake Winnipeg, and would recommend the construction of another, either at Pine Falls on Winnipeg River, or at Hole River where there is also a natural fall of water very superior in quality to that of Red River.

At either of these places a building could be erected and equipped with larger capacity than this one, for half the money that this cost; then the maintenance

would be small indeed compared with this.

Having an unlimited supply of the best water no steam boiler or pump would be required, nor would so large an expenditure for fuel be necessary every year. You would not require an expensive engineer, a night fireman, or barrels of cylinder oil, coal oil, tools and sundry other things necessary where steam has to be employed, and again you would be right on the lake where the ova are obtainable, and the fry is to be planted and virtually take the one in at the front door and let the other go out the back.

I also consider it would be of great advantage, to both Lake Manitoba and Winnipegosis to have a small hatchery located near the mouth of some of the streams emptying there into; when one considers the immense value of our fisheries, and the importance of carefully guarding them, he cannot but be convinced that money spent in hatcheries is well spent, and bound to yield satisfactory returns.

The number of visitors is about the same as last year, the hatchery being now no 'New thing' for the people of the town and the immediate vicinity, hence our callers are limited to visitors from outside places during the winter season. If the hatchery operated during the picnic season we would have visitors in large numbers as I find almost every one takes a lively interest in fish culture, as soon as they know something of artificial propagation.

Respecting requests for fry,—I have had several, all from persons living in the vicinity of some small inland lake, and I have advised each one to make application

direct to you, and their wants would receive consideration.

I have the honour to remain sir, your obedient servant,

F. W. COLCLEUGH, Officer in charge.

ANNEX A.

REPORT ON OYSTER CULTURE BY THE DEPARTMENT'S EXPERT FOR THE SEASON OF 1899.

OTTAWA, December 30, 1899.

To the Honourable
Sir Louis H. Davies, K.C.M.G.,
Minister of Marine and Fisheries,
Ottawa.

Sir,—I have the honour to submit to you my annual report for the past season. During a portion of last year my time was taken up in cleaning an area of ground situated on the northern side of Reynolds' West Island in Murray River, P.E.I.; as this area was not finished on the closing of navigation, my time has been engaged with the aid of a small steamboat and crew, to remove the weed and eelgrass that was growing there, by using toothed frames of an oyster dredge, and by continually towing them over the ground the weed was torn out by the roots, the bottom became perfectly clean and was visible at a depth of ten feet from the surface. After this piece of ground was cleaned to my satisfaction I placed over fifteen hundred bags of gravel or beach stones on the western side of the bottom so as to form a foundation and make it firmer, this gravel was obtained along the shores of the different rivers in the locality, laying between low and high water mark; afterwards I laid a large quantity of oyster shells over the whole area, which were obtained during the previous winter from Murray River above McLure's dam by means of a mud digger. These shells were taken from dead oyster beds lying in fresh water on account of the dam being built across the river below where the beds existed and the shells were in a splendid state of preservation. One thousand loads of shell mud were obtained and after spreading this out to dry the shells were raked over and picked out, afterwards the mud was riddled and the small shells were also saved, so that not a shell was wasted; the shells were found to be in a much larger proportion than the mud. When the area was cleaned the shells were removed by means of scows, and towed down and spread evenly on the bottom. After finishing the above I was ready to stock the bed with young oysters and laid 84 barrels of small growing oysters averaging over 2,300 to the barrel from Richmond Bay, taken in the vicinity of Curtain Island. I was in hopes of laying a larger quantity but owing to the demand for marketable oysters being so great, and during the latter part of the season many of the oyster boats were smashed up by the heavy gales of wind which prevailed through the fall I had great difficulty to secure the number I did, as several parties agreed to collect small oysters for planting purposes but failed to do so and regret that a larger number were not laid, but those that were received were in excellent condition. The above work occupied a considerable portion of my time, and the other places on the island visited and examined by me were as follows:-

TRACADIE HARBOUR.

This is an extensive bay, oyster shells and dead beds covered over with mud and

celgrass were reported, and found to exist, although now of no value.

Between Queen's Point and Big Channel on the northside of the bay a large bed of dead oyster and clam shells were found lying in about 2 feet water and deepening steeply to 10 feet, these shells are bleached and are too hard for mud diggers to work upon. No life in the way of shellfish was discovered here.

On Big Bank, which is really a large flat of sand and eel grass extending from the shore to the south side of the northern channel, a few oysters are found scattered about but they are very scarce.

In McAulay's Cove, on the southern side of Queen's Point, three small patches were found lying in about 7 feet water and about 20 feet long, consisting of a shelly soil with a few growing cysters but not amounting to anything of importance.

Off McDonald's wharf at the head of the bay oysters were reported to have been caught last fall, but upon examination it was found to have been dug up during the winter by mud diggers, and nothing but a small patch was left. I only got one oyster there.

Off Kelly's Point at the entrance of Winter River an area of dead shells were found amongst soft soil which has been worked upon by mud diggers and is of no

available use for any other purpose.

In Winter River above the bridge the ground has been cut up with mud diggers, the bottom consists of soft black mud with small mussels growing over the area. At the bridge I noticed several starfish clinging to the piles feeding on the mussels which were growing there. In McDougal's Cove there is a hard shelly bottom now covered with eelgrass, and has the appearance of an oyster bed which has grown to the level of the ice, as no live oysters are found and it is lying in about eighteen inches of water.

I also tried on various parts of the bay while sailing, and found some parts composed of hard sand covered with eelgrass while other parts consisted of soft mud. I do not see any ground here which I would recommend for preservation of the cyster

industry or which could be utilized for the cultivation of the same.

SAVAGE HARBOUR.

Last season it was reported that an extensive oyster bed was found in this harbour, but from inquiries made it seems to have been exaggerated as far as the quantity caught was concerned. Oysters were found there and upon examination there is a firm area over which they fished, of roughly speaking, nine or ten acres, which consists of a firm sand and muddy bottom with some large and small stones, shells, and a number of mussels were found to be growing losely upon the area, the depth of water varied from about ten feet and gradually shoaled until it reached the shore. This area is situated at the southern part of the bay on the northern side of Canavoy Island.

Another smaller area similar to the above lies a little to the westward of the larger patch. Last winter the farmers made an effort to dig mud where the oysters were found, but were prevented by the fishery warden until an examination could be made. Mud digging has been carried on in McIntyre's Creek and at the head of the bay, and I consider they should remain there. An imaginary line drawn from the western part of Canavoy Island to eastern line fence of Samuel Coffin, is a good mark, to keep the mud diggers on the western side of line and the fishing on eastern side. This is a sandy soil and practically useless as a fertilizer, and it might be spoilt by the farmers if they were allowed access to it. On the other hand, I believe the above area could be cultivated successfully if an attempt were made.

MORELL RIVER.

The edges of the channel of this river are steep and for ages oysters have clung and grown to the sides forming long narrow ridges and small beds in the bends of the river until the shells were found to exist to quite a depth. Of late years the farmers have dug most of these beds up, leaving small patches of shell not larger than the width of a row-boat, the bottom is now very uneven and in most places the holes caused by the diggers have become filled in with very soft mud. Very few oysters are found on these disjointed patches The oysters have grown to a large size which shows there is but little fishing carried on, and that the area is very

limited. Below the railway bridge at the mouth of the river the water is very shallow and can be waded across at low water time. The bottom consists of an extensive bed of mussels partially covered with eelgrass where oysters of various sizes may be found, most of them being small; they are of a quick growth owing to the strong current and shallow water, but are not in any large quantities, and are of little commercial value.

MIDGELL RIVER.

This like Morell, has been destroyed by the diggers and there is not a bed in either river which has escaped their notice. There is no available area large enough or fit to cultivate or protect, and several of these so-called beds are covered over with mud, it being at times almost impossible to obtain any shells from them at all. Sometimes a person will be enabled to catch a few oysters for his own use but they do not amount to any quantity. Persons will talk of what they could eath fifteen or twenty years ago, and are under the impression the same can be done to day. Mud digging is carried on in St. Peter's Bay but no oyster tishing or live beds seem to be reported there. I cannot see that any further action is necessary as far as protection is concerned in either of the above rivers, beyond the ordinary oyster regulations.

FORTUNE RIVER.

My attention was called to examine the condition of this river and to reserve a certain area for farmers to dig their mud. Also to inspect a piece of ground which has been applied for to lease, and to protect the area from being destroyed by mud digging. This area is located on a sandy and muddy soil, having been dug up years ago by mud diggers and is now covered nearly all over with mussels. The gentlemen who applied for this area have planted a small quantity of oysters at their own risk as an experiment, hoping to be able to lease the area. The bottom of this river, suitable for cultivation, is very limited, and I do not consider it should be destroyed, so I have arranged the following boundaries:—Mud digging should not be allowed on the river below the line road dividing Lot 56 and Lot 43 on the north side of Fortune River, nor above McKay's wharf, which is just below the bridge, as the most valuable part of the river bed lies between these two boundary lines, while good mud digging can be obtained above this area to satisfy the wants of the farmers.

The fishery officer would have liked me to have examined Souris River, as he stated oysters were found there, but, owing to the lateness of the season, time would not permit me doing so.

BEDEQUE BAY.

For years past, farmers have been destroying the oyster beds in Bedeque Bay and Wilmot Creek until the fishing area has become very limited, and to save the beds from utter extinction the boundaries have been laid out as follows:-Commencing with a straight line running in a southerly direction from the eastern range light (on George Stafford's farm) to McDonald's Point; this is the western boundary of the oyster area until it crosses the southern boundary line, which lays in a west-north-westerly direction from a marked tree (K) on Wilmot Point to the southern extremity of Government wharf, the north side of this line to the point where it crosses the western boundary line to be reserved for oyster fishing and the rest of the bay may be used by the farmers. The land on the north and south sides of Wilmot Creek to be the boundaries for oyster fishing until the eastern line is reached, which runs in a southerly direction from the line fence of George Price and Robert Stafford's farms on the north side of the creek to William Schurman's road open to the shore (on the south side of the creek) about 150 yards to the westward of Schurman's wharf. Mud digging may be carried on to the east of this line, reserving the side to the westward for oyster fishing.

This area reserved for oyster fishing should be satisfactory to all parties, as the farmers will know exactly where they can dig mud without injury to the oyster beds, as the oysters taken from here are very valuble to the fishermen and are reported to be improving in quantity. Instructions have been given to the inspector of fisheries to have the above boundary lines marked by bushes when the ice has formed, and to see that no person encroaches on the area with their mud diggers.

PROTECTION OF OYSTERS.

The demand for oysters is becoming greater each year, and is now far greater than the supply. This will eventually lead to the depletion of our public beds unless stringent measures are adopted to preserve them. The fisherman knowing there is a ready sale for his catch is naturally careless as to the size limit, and while oysters are becoming each year of greater value, more men will engage themselves in the industry, consequently at the end of each season there are less parent oysters left on the ground for breeding purposes and a larger number of small ones taken and while the demand continues the size and quantity of oysters will be gradually lessened. To counteract this evil I would strongly advise the department to have the fishing areas divided into two sections so as to fish one section alternately each year; also to restrict the size limit, to 3 inches only whether the oysters are round or long, as many fishermen will argue the point and call a long oyster a round one, and to remedy this, would be to change clause 6 of the oyster regulations which reads as follows:— No persons shall fish for, catch, kill, buy, sell or have in possession any round oysters of a less size than two inches diameter of shell, or any long oysters measuring less than three inches of outer shell'. It would be in the interests of the oyster industry for this clause to be changed so as to read as follows:-No person shall fish for, catch, kill, buy or sell any oysters measuring less than three inches of outer shell; when measured the above size is found to be quite small enough to be taken from the beds for marketable purposes.

LEASED AREAS.

Another method of establishing and maintaining the supply is for persons interested in the industry to have a certain area under their own control for cultivating and planting purposes, it would also be of great value to wholesale buyers and packers to hold a plot of ground where they would place their small culls, also when a glut is on the market (as often happens during a spell of mild and fine weather) they would be able to hold their stock and meet the demands of the market as they are required.

Again, when bad weather approaches and oysters are scarce, a person having a stock on his own reserve will often find means to take them up and secure a higher price. Persons having areas under cultivation would naturally wish to send the largest and best selected oysters to market thereby obtaining a higher price for them, and, especially if sold by measure, they would return the small ones to the beds where they would develop into full grown ones if left until probably the following season.

Another point to be looked at in granting areas to persons cultivating oysters in different parts of the provinces, is the distribution of the oyster spat during the spatting season. This is where man has no control; he may by his own efforts secure a large quantity, but natural beds may receive a large share, or the spat may spread over a large area of ground forming new beds if it is suitably adapted to receive it.

Some persons well state that those holding private areas will obtain a monopoly over the trade, but when it is seen that large quantities of American oysters are sold in Canadian cities it shows there is still room for more oysters from our own beds if we could supply them. And if the supply was increased to any great extent our merchants might compete with foreign markets for which there is always an outlet. But while prices increase and oysters are becoming scarcer it is only right to protect

them from extinction, and any person studying and cultivating oysters would also find it a very profitable industry.

FISHING SEASON.

The present fishing season commences on September 16 and remains open until closed by the ice forming over the beds, there being an Order in Council in force that:—'Fishing for oysters or any shell fish through the ice is prohibited.' average the ice forms the early part of December, which gives about 10 or 11 weeks fall fishing, and opens up again about the latter part of April when most of the men are engaged in lobster fishing consequently it is carried on in the spring in a much smaller way until the 31st day of May when the close season begins. These dates I am of opinion are well arranged and do not see any necessity for a change, as shortening the season will have no material effect on the oysters, the fishing would be prosecuted with the utmost vigour while it lasted, and it is clear to every one that a large number of fishermen working upon a bed for a short season, will do as much damage, or perhaps more, than a lesser number working for a longer time. It is also noticed than when the season first opens, there are men fishing from all parts, but as the season advances, the weather becoming colder and more boisterous, and oysters more difficult to obtain, many of them leave the beds and only the regular oyster fishermen stick to their work until compelled to leave on account of frost setting in.

A very extensive report on oyster culture is found in the thirty-first annual report of the Department of Marine and Fisheries (Fisheries part) for 1898, page 259, in which every subject is fully dealt with, and it is not necessary for me to repeat any of the details there given, in this present report.

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

ERNEST KEMP,
Oyster Expert.

APPENDIX No. 12.

REPORT OF THE FISHERIES PROTECTION SERVICE OF CANADA, BY · COMMANDER O. G. V. SPAIN.

OTTAWA, December 30, 1899.

The Honourable

Sir Louis H. Davies, K.C.M.G., Minister of Marine and Fisheries.

SIR,—I have the honour to report on the work performed by the Fisheries Protection Service of Canada, under my command, during the past season.

The vessels forming the fleet were :-Acadia, Commander O. G. V. Spain. Curlew, Captain J. H. Pratt. Constance, Captain George May. La Canadienne, Commander W. Wakeham.

Petrel, Captain E. Dunn.

Kingfisher, Captain W. H. Kent. Osprey, Captain C. T. Knowlton.

Quadra, Captain J. Walbran; this vessel was employed on occasions, when

necessary, on the Pacific coast.

Since commencement of the season several changes have been made in the Government ships; two new vessels have been built, one in Scotland, the Minto, and the other in Prince Edward Island, the Brant. The dimensions, &c., of these two vessels will be found in another portion of the Marine and Fisheries Report, and the tug Dolphin, which has been used for some years in Georgian Bay, looking after the interests of our own fishermen, (which business is now principally taken over by the Provincial Government), has been sold.

The patrols of the various above named vessels were generally as follows:—

The Acadia, patrolling the coasts from Cape Sable Island, in Nova Scotia, to Cape Gaspé, in Quebec, and as usual, generally supervising the fleet. This vessel was refitted last year at a cost of some \$10,000, and is now in good condition to do her work for some years to come. Her boilers and machinery are in very fair order considering their age. This satisfactory state of affairs is nearly entirely due to the careful and painstaking manner in which the chief engineer, Mr. D. M. A. Mooney, who has had charge of this department on board since she entered the Government service, has looked after her.

Curlew.—The patrol of this vessel has been the Bay of Fundy, south-east coast of Nova Scotia, and the Cape Breton coast, with one trip to the Miramichi in connection with the pilotage question. She is an effective and handy little ship, and has done excellent work in stopping illegal lobster fishing, protecting the three

mile limit, collecting bounty claims, &c.

Constance.—This vessel has again been used entirely in the revenue service. She has been painted white this season, which is supposed to make her less visible

when on the watch for smugglers, than before, when painted black.

La Canadienne.—This vessel with Commander Wakeham in charge, has been working independently of the rest of the fleet, and mainly employed on the Quebec and Labrador coasts. A report of this officer's work will be found among the inspector's reports.

Petrel.—Employed on the great lakes protecting the boundary line, and looking after our fishermen's interests generally. This vessel has also been employed at

intervals in placing and raising buoys in the vicinity of her fisheries work.

Kingfisher.—This schooner, as usual, was stationed at Souris, Prince Edward Island, for the first part of the season, but on the request of Captain Kent, I changed her headquarters to Georgetown later on. She has done good work in protecting the coast and stopping illegal lobster fishing. In the fall she was ordered to Sydney. Captain Kent was instructed to represent the Canadian service at Sydney Carnival, where a number of British and French men-of-war were assembled. Her crew won the "gig race," beating all comers, and I received a letter of thanks from the Mayor of Sydney for the great assistance the Kingfisher had been; she was provided later with a complete new outfit of sails. The captain was instructed that the build and material of these sails would be entirely left to him; up to the present time, I have had no opportunity of closely inspecting them myself.

Osprey.—The headquarters of this vessel were at Canso, and in the fall, at North

Sydney. She has been principally engaged in stopping illegal lobster fishing.

General Lord William Seymour, commanding the forces in British North America, made a trip on board her in the spring, and was very much pleased with this smart schooner.

Captain Knowlton made a seizure at Canso in November, of United States fishing vessel Flora L. Nickerson. An account of this seizure will be reported later.

Quadra—This vessel has done valuable work on occasions when called upon, in British Columbia waters. Captain Walbran has been most careful in keeping me particularly well posted in reference to all the actions of foreign fishermen on our Pacific coast.

A report on the particular work of each individual captain, on the movements of the ship under his command, will be found herewith.

Three small tugs were again employed this year, in the suppression of illegal

lobster fishing, which they managed to carry out successfully.

Florence C.—A chartered vessel under the command of First Officer Burns, of the Curlew, and manned by a crew from the same vessel. This tug's patrol was on the south-east coast of Nova Scotia.

Davies.—Owned by the department, under the charge of First Officer Graham, of the Kingfisher, and manned by a crew from the Acadia, was stationed in the Northumberland Straits and on the Cape Breton coasts.

Brant.—This is a new vessel belonging to the department, and when carrying on this particular work, was under the charge of Overseer Hobkirk, of Charlottetown. I am pleased to report that there was far less illegal fishing this year than ever before; and it was most satisfactory to myself and my officers, not to have so much of the disheartening work of destroying fishermen's valuable property, in the way of lobster traps, back-lines, &c.

It may be of interest to publish instructions given to the officer commanding the Fisheries Protection Service in 1886, and also issued to the different captains. Sir Louis H. Davies, the present Minister of Marine and Fisheries, instructed me to

still continue the same regulations; they are as follows:-

INSTRUCTIONS TO COMMANDERS OF GOVERNMENT VESSELS ENGAGED IN THE PROTECTION OF THE INSHORE FISHERIES OF CANADA.

DEPARTMENT OF FISHERIES.

OTTAWA, March 16, 1886.

Sir,-In the performance of the special and important services to which you have been appointed you will be guided by the following confidential instructions. For convenience of reference, these have been divided under the different headings, of Powers, Jurisdiction, Duties, and General Directions.

POWERS.

The powers with which you are invested, are derived from, and to be exercised in accordance with the following statutes, among others:—'The Fisheries Act' (31

Vic., cap. 60, of Canada); 'An Act respecting Fishing by Foreign Vessels' (31 Vic., cap. 61, of Canada), and the subsequent statute entitled: 'An Act to amend the Act respecting Fishing by Foreign Vessels,' made and passed the 12th May, 1870 (33 Vic., cap. 15, of Canada); also, 'An Act to further amend the said Act' (34 Vic., cap. 23, of Canada).

'Chapter 94 of the Revised Statutes (third series) of Nova Scotia' (of the 'Coast and Deep Sea Fisheries'), amended by the Act entitled: 'An Act to amend cap. 94 of the Revised Statutes of Nova Scotia' (29 Vic., cap. 35).

An Act passed by the Legislature of New Brunswick entitled: 'An Act

relating to the Coast Fisheries, and for the prevention of Illicit Trade' (16 Vic., cap. 69).

Also an Act passed by the Legislature of Prince Edward Island (6 Vic., cap. 14) entitled: 'An Act relating to the Fisheries, and for the prevention of Illicit Trade

in Prince Edward Island, and the coasts and harbours thereof.'

Also from such regulations as have been passed or may be passed by the Governor General in Council, or from instructions from the Department of Fisheries, under 'The Fisheries Act,' hereinbefore cited.

As fishery officer you have full authority to compel the observance of the requirements of the Fisheries Acts and regulations by foreign fishing vessels and fishermen in those parts of the coasts of Canada to which, by the Convention of 1818, they are admitted to privileges of taking or drying and curing fish concurrent with those enjoyed by British fishing vessels and fishermen.

You will receive instructions from the Customs Department authorizing you to act as an officer of the Customs, and in that capacity you are to see that the revenue

laws and regulations are duly observed.

JURISDICTION.

Your jurisdiction with respect to any action you may take against foreign fishing vessels and citizens engaged in fishing is to be exercised only within the limits of 'three marine miles' of any of 'the coasts, bays, creeks or harbours,' of Canada.

With regard to the Magdalen Islands, although the liberty to land and to dry and cure fish there is not expressly given by the terms of the convention to United States fishermen, it is not at present intended to exclude them from these islands.

DUTIES.

It will be your duty to protect the inshore fisheries of Canada in accordance with the conditions laid down by the Convention of the 20th October, 1818, the

first article of which provides:-

'Whereas, differences have arisen respecting the liberty claimed by the United States, for the inhabitants thereof to take, dry and cure fish, on certain coasts, bays, harbours and creeks, of His British Majesty's dominions in America, it is agreed between the high contracting parties, that the inhabitants of the said United States shall have, for ever, in common with the subjects of His Britannic Majesty, the liberty to take fish of every kind on that part of the southern coast of Newfoundland, which extends from Cape Ray to the Rameau Islands, on the western and northern coast of Newfoundland, from the said Cape Ray to the Quirpon Islands, on the shores of the Magdalen Islands, and also on the coasts, bays, harbours and creeks from Mount Joli, on the southern coast of Labrador, to and through the Straits of Belle Isle, and thence northwardly indefinitely along the coast, without prejudice, however, to any of the exclusive rights of the Hudson's Bay Company; and that the American fishermen shall also have liberty, for ever, to dry and cure fish in any of the unsettled bays, harbours and creeks, of the southern part of the coast of Newfoundland, hereabove described, and of the coast of Labrador; but so soon as the same, or any portion thereof, shall be settled, it shall not be lawful for the said fishermen to dry or cure fish at such portions so settled, without previous agreement for such purpose with the inhabitants, proprietors or possessors of the ground.'

'And the United States hereby renounce for ever any liberty heretofore enjoyed or claimed by the inhabitants thereof, to take, dry, or cure fish on or within three marine miles of any of the coasts, bays, creeks or harbours of His Britannic Majesty's dominions in America, not included within the above mentioned limits; provided, however, that the American fishermen shall be admitted to enter such bays or harbours, for the purpose of shelter and repairing of damages therein, of purchasing wood and of obtaining water, and for no other purpose whatever. But they shall be under such restrictions as may be necessary to prevent their taking, drying or curing fish therein, or in any other manner whatever abusing the privileges hereby reserved to them.'

By this you will observe, United States fishermen are secured the liberty of taking fish on the southern coasts of Labrador, and around the Magdalen Islands, and of drying and curing fish along certain of the southern shores of Labrador, where this coast is unsettled, or if settled, after previous agreement with the settlers

or owners of the ground.

In all other parts the exclusion of foreign vessels and boats is absolute, so far as fishing is concerned, and is to be enforced within the limits laid down by the Convention of 1818, they being allowed to enter bays and harbours for four purposes only, viz.,—for shelter, the repairing of damages, the purchasing of wood, and to obtain water.

You are to compel, if necessary, the maintenance of peace and good order by foreign fishermen pursuing their calling and enjoying concurrent privileges of fishing or curing fish with British fishermen, in those parts to which they are admitted by the Treaty of 1818.

You are to see that they obey the laws of the country, that they do not molest British fishermen in the pursuit of their calling, and that they observe the regu-

lations of the fishery laws in every respect.

You are to prevent foreign fishing vessels and boats which enter bays and harbours for the four legal purposes above mentioned, from taking advantage thereof, to take, dry or cure fish therein, to purchase bait, ice, or supplies, or to tranship cargoes, or from transacting any business in connection with their fishing operations.

It is not desired that you should put a narrow construction on the term 'unsettled.' Places containing a few isolated houses might not, in some instances, be susceptible of being considered as 'settled' within the meaning and purpose of the convention. Something would, however, depend upon the facts of the situation and circumstances of the settlement. Private and proprietary rights form an element in the consideration of this point. The generally conciliatory spirit in which it is desirable that you should carry out these instructions, and the wish of Her Majesty's Government that the rights of exclusion should not be strained, must influence you in making as fair and liberal an application of the terms as shall consist with the just claims of all parties.

Should interference with the pursuits of British fishermen or the property of Canadians appear to be inseparable from the exercise of such indulgence, you will

withhold it and insist upon entire exclusion.

United States fishermen should be made aware that, in addition to being obliged, in common with those subjects of Her Majesty with whom they exercise concurrent privileges of fishing in colonial waters, to obey the laws of the country, and particularly such Acts and regulations as exist to ensure the peaceable and profitable enjoyment of the fisheries by all persons entitled thereto, they are peculiarly bound to preserve peace and order in the quasi settled places to which, by the liberal disposition of Canadian authorities, they may be admitted.

Wheresoever foreigners may fish in Canadian waters, you will compel them to observe the fishery laws. Particular attention should be directed to the injury which results from cleaning fish on board their vessels while affoat, and the throwing overboard of offals, thus fouling the fishing, feeding and breeding grounds. 'The Fisheries Act' (section 14) provides a heavy penalty for this offence.

'The Fisheries Act' (section 14) provides a heavy penalty for this offence.

Take occasion to inquire into and report upon any modes of fishing, or any practices adopted by foreign fishermen, which appear to be injurious to the fisheries.

GENERAL DIRECTIONS.

You will accost every foreign fishing vessel within the limits described, and if that vessel should be either fishing, preparing to fish, or should obviously have been fishing within the prohibited limits, you will, by virtue of the authority conferred upon you by your Commission, and under the provisions of the Acts above recited, seize at once (resort to force in doing so being only justifiable after every other effort has failed) any vessel detected in violating the law and send her or take her into port for condemnation.

Copies of the Acts of Parliament subjecting to seizure and forfeiture any foreign ship, vessel or boat which should be either fishing, preparing to fish, or should obviously have been fishing within the prohibited limits, and providing for carrying out the seizure and forfeiture are furnished herewith for your information and distri-

bution.

Should you have the occasion to compel any foreign fishing vessels or fishermen to conform to the requirements of the 'Fisheries Act and Regulations,' as regards the modes and incidents of fishing, at those places to which they are admitted under the Convention of 1818, particularly in relation to ballast, fish offals, setting of nets, hauling of seines, and use of 'trawls' or 'bultows,' more especially at and around the Magdalen Island, your power and authority under such cases will be similar to that of any other fishery officer appointed to enforce the fishery laws in Canadian waters (Vide Fisheries Act).

If a foreign ship, vessel or boat be found violating the convention or resisting consequent seizure, and momentarily effects her escape from the vicinity of her capture or elsewhere, she remains always liable to seizure and detention if met by yourself in Canadian waters, and British waters everywhere if brought to account by Her Majesty's cruisers. But great care must be taken to make certain of the

identity of any offending vessel to be so dealt with.

All vessels seized must be placed, as soon as possible, in the custody of the nearest customs collector, and information, with a statement of the facts, and the deposition of your sailing master, clerk, lieutenant, or mate, and of two at least of the most reliable of your crew be despatched with all possible diligence to the Government. Be careful to describe the exact locality where the violation of the law took place, and the ship, vessel or boat was seized. Also corroborate the bearings taken, by sounding, and by buoying the place (if possible) with a view to actual measurement, and make such incidental reference to conspicuous points and landmarks as shall place beyond doubt the illegal position of the seized ship, vessel or boat.

Omit no precaution to establish on the spot that the trespass was or is being committed within three miles of land.

As it is possible that foreign fishing craft may be driven into Canadian waters by violent or contrary winds, by strong tides, through misadventure, or some other cause independent of the will of the master and crew, you will consider these circumstances, and satisfy yourself with regard thereto before taking the extreme step of seizing or detaining any vessel.

On capture, it will be desirable to take part of the foreign crew aboard the vessel under your command, and place some of your own crew, a measure of precaution, on board the seized vessel; first lowering the foreign flag borne at the time of capture. If your ordinary complement of men does not admit of this being done, or if because of several seizures the number of your hands might be too much reduced, you will, in such emergency, endeavour to engage a few trustworthy men. The portion of foreign crew taken on board the Government vessel you will land at the nearest place where a consul of the United States is situated, or where the readiest conveyance to any American consulate in Canada may be reached, and leave them there.

When any of Her Majesty's vessels about the fishing stations or in port are met with, you should, if circumstances permit, go on board and confer with the naval commander, and receive any suggestions he may feel disposed to give, which do not conflict with these instructions, and afford him any information you may possess

about the movements of foreign craft; also inform him what vessels you have accosted and where.

Do not fail to make a full entry of all circumstances connected with foreign fishing vessels, noting their names, tonnage, ownership, crew, port, place of fishing, cargo, voyage, and destination, and (if ascertainable) their catch. Report your proceedings as often as possible, and keep the department fully advised on every opportunity, where instructions would most probably reach you at stated intervals.

Directions as to the stations and limits on which you are to cruise, and any fur-

ther instructions that may be deemed necessary, will, from time to time, be con-

veved to you.

Considerable inconvenience is caused by Canadian fishing vessels neglecting to show their colours. You will draw the attention of masters to this fact, and request

them to hoist their colours without requiring to be hailed and boarded.

It cannot be too strongly urged upon you, nor can you too earnestly impress upon the officers and crew under your command, that the service in which you and they are engaged should be performed with forbearance and discrimination.

The Government relies on your prudence, discretion and firmness in the per-

formance of the special duties entrusted to you.

I am, sir, your obedient servant,

GEORGE E. FOSTER, (Sd.) Minister of Marine and Fisheries.

It is very gratifying to me to again report on the efficiency and general good conduct of the officers and men under my command during the past season. The

work is trying and monotonous, and particularly arduous in the late fall.

The fleet patrolled over eighty-seven thousand miles of coast line, and foreign fishermen have little or no opportunity of poaching. The fishing fleet is persistently followed and boarded when in our waters and reports taken from them of all particulars with regard to their catch of fish, whereabouts caught, and the manner of catching them.

SEIZURES.

One seizure was made, by Captain Knowlton of the Osprey, at Canso, Nova Scotia, for an infraction of the fishery laws, in that the United States fishing vessel Flora L. Nickerson did purchase provisions and stores at Canso without first obtaining a Dominion license. This vessel was seized and a guard put on board. but I released her next day on orders from the department, after the master had consented to immediately secure a modus vivendi license.

Another seizure of the United States fishing vessel Stranger was made at Lockeport, Nova Scotia; but this was purely for a customs matter. She was released

on payment of a fine of twenty-five dollars.

LICENSES TO UNITED STATES FISHING VESSELS.

The same Order in Council being passed as before, sanctioning the continuance of the issue of modus vivendi licenses to United States fishermen, similar permits were issued in 1899.

Schedule of United States Fishing Vessels to which Licenses were issued under the Act entitled 'An Act respecting Fishing Vessels of the United States of America' during the Year 1899.

| Name of Vessel. | Port of R | legist | ry. | Tonnage. | Port of Issue. | Fee | • |
|----------------------------|---------------------|--------|---------|-----------|------------------------------------|------------|-------------------------------------------------|
| | | | | | | | ct |
| | | lass. | | 28 | Yarmouth, N.S | | 2 00 |
| sther Anitu | Boston | " | • • • • | 72 | Shelburne, N.S | | 3 00 |
| | Gloucester Salem | " | | 65 29 | Yarmouth, N.S | | 7 50 3 50 |
| | Gloucester | | | 97 | Halifax, N.S | | 5 5 |
| Tector | ., | | | 84 | Pubnico, N.S | | βŎ |
| nna L. Sanborn | Salem | ** | | 17 | Yarmouth, N.S | 25 | 5 5 |
| arthia | Gloucester | 11 | • • • • | 77 | " | 113 | |
| ernwood | | ** | • • • • | 96 85 | Pubnico, N.S. | 144 127 | |
| R. Lawson | " | " | , | 63 | Halifax, N.S. | | 4 5 |
| Iystery | ,,, | 11 | | 89 | Pubnico, N.S. | 13 | |
| enator Saulisbury | ., | 11 | | 77 | " | 113 | |
| V. E. Morrissey | " | ** | | 93 | Tusket, N.S | 139 | |
| mma E. Witherell | 11 | ** | • • • • | 81 | | 121 | |
| largaret | Povorly | 11 | • • • • | 107 92 | " | 160 | |
| fabel D. Hines | Gloucester | " | • • • • | 81 | Yarmouth, N.S. | 138 121 | |
| leteor | Glodeesu. | " | | 96 | Pubnico, N.S | 144 | |
| [azel Oneita | ., | " | | 73 | Tusket, N.S | 109 | |
| awrence A. Munroe | ** | 11 | | 84 | Barrington, N.S Yarmouth, N.S | 126 | |
| ohn L. Nicholson | ٠, | 11 | • • • • | 92 | Yarmouth, N.S | 138 | |
| nnie Wesley | " | ** | • • • • | 65 84 | Pubnico, N.S | | 7 |
| ssex P. Willard | " | " | • • • • | 88 | Halifax, N.S | 120 133 | |
| tranger | ,, | " | | 59 | Lockeport, N.S. | | 8 |
| hetis | " | 11 | | 67 | Varmouth N.S | 100 | |
| henandoah | " | 11 | | 77 | Barrington, N.S | 113 | 5 ! |
| W. Holmes | ,,, | 11 | • • • • | 75 | Lockeport, N.S | 112 | |
| Iarsala | " | 11 | • • • • | 54 69 | " | 103 | 1 (|
| loward Holbrook | " | 11 | | 65 | Barrington N.S | | 7 |
| andseer | " | ** | | | Barrington, N.S | 10 | |
| larvester | " | ** | • • • • | 76 | Shelburne, N.S | 11- | 4 (|
| rayling | " | ** | • • • • | 88 | Lockeport, N.S | 13 | |
| dmiral Dewey | D1 | 11 | • • • • | 78 | Canso, N.S | 117 | |
| annie S. Ome. | Glovester | " | • • • | 42 61 | Lockeport, N.S. | | $egin{smallmatrix} 3 & 0 \ 1 & 0 \end{bmatrix}$ |
| dward A. Perkins | " | 11 | | 58 | Canso, N.S. | | 7 |
| llen F. Gleason | | 11 | | 42 | " | | 3 (|
| ew England | | 11 | | 59 | " | 88 | 8 . |
| lattie L. Trask | " | 11 | | 48 | | | 2 (|
| lice M. Parsons | " | ** | • • • • | 43 | 11 | | 4 |
| cichard Lester | ", | " | • • • • | 47 78 | Port Hawkesbury, N.S. | 11 | $\frac{0}{7}$ |
| . F. Maker . W. Collins | " | 11 | • • • • | 52 | rort Hawkesoury, 14.5 | | 8 |
| R Crittenden | " | 11 | • • • • | 56 | | | 4 |
| A. Wilson | " | 11 | | 61 | Tusket, N.S | 9 | 1 |
| lsie M. Smith | " | 11 | •••• | | Arichat, N.S | 12 | |
| liza B. Campbell | | 11 | • • • • | 69 | " | 10 | |
| Iabel Leighton | " | " | • • • • | 48 77 | Barrington, N.S | 11 | 2 ' |
| ottie Gardner | 3 | | • • • • | 89 | Shelburne, N.S. | 13 | 3 |
| ennie B. Hodgin | | 11 | | 85 | Arichat, N.S. | 12 | |
| asconoma | " | 11 | | 67 | | 10 | |
| lue Jacket | - " | ** | | | N. Sydney, N.S. Liverpool, N.S. | 12 | 9 |
| ellie Dixon | Boston | ** | • • • • | I FA | Amboust M.T. | 10 | |
| alph F. Hodgson | Gloucester | " | - • • • | 1 01 | Amherst, M.I., Que | | 8 |
| essie M. Devine | | " | | 72 | Canso, N.S. | 13 11 | |
| uickstep | " | ;; | | 1 00 | Shelburne, N.S. | 10 | |
| liza H. Parkhurst | | • | | l 0₩ | Canso, N.S. | 12 | |
| izzie Griffin | 11 | 11 | | 71 | | 10 | 6 |
| gnes E. Downes | | ** | | 59 | 1 " | 8 | 8 |

63 VICTORIA, A. 1900

Schedule of United States Fishing Vessels to which Licenses were issued—Concluded.

| Name of Vessel. | Port of R | legistry. | Tonnage. | Port of Issue. | Fee. | |
|--------------------|-------------|-----------|-----------|-----------------------|---------|-----|
| | | | | | | ets |
| Lizzie B. Adams | Gloucester. | Mass | 58 | Port Hawkesbury, N.S. | 87 (| 00 |
| Electa A. Eaton | ,, | " | 73 | Whitehaven, N.S | 109 | 50 |
| Eleazar Boynton | | | 63 | N. Sydney, N.S | 94 | 50 |
| Annie Greenlaw | | | 69 | Yarmouth, N.S | 103 | 50 |
| Reporter | | | 60 | Liverpool, N.S | 90 | 00 |
| F. W. Homans | ., | | 44 | Port Mulgrave, N.S | 66 | 00 |
| Golden Hope. | | | 75 | Pubnico, N.S | 112 | 50 |
| Helen F. Whittier | ,, | | 92 | Yarmouth, N.S | 138 | 00 |
| Dawson City | Boston | | 49 | Canso, N.S | 73 | 50 |
| Winona | Gloucester | | 78 | Pubnico, N.S | 117 | 00 |
| Commonwealth | " | | 60 | Canso, N.S | 90 | 00 |
| Grace Darling | Salem and | | | 20000 | 1 | |
| Grace Darning | Beverly | | 47 | | 70 | 50 |
| Lucille | Gloucester | | _ <u></u> | | 108 | 00 |
| Oliver F. Kilham | Salem and | | | | | |
| Oliver F. Killiam | Beverly | | 44 | " | 66 | 00 |
| Flora L. Nickerson | | | | " | 94 | |
| George Temple | New York | , N.Y | | Yarmouth, N.S | 66 | |
| | Т | otal | 5,511 | | \$8,266 | 2 |

| Number of vessels | 80 |
|--------------------------|----------|
| Amount of tonnage | 5,511 |
| Amount received for fees | 8,266 25 |

The following is the statement of the number of licenses issued to United States fishing vessels in each season since 1888:—

| 1888 | 36 |
|------|-----|
| 1889 | 78 |
| 1890 | 119 |
| 1891 | 98 |
| 1892 | |
| 1893 | |
| 1894 | |
| 1895 | |
| 1896 | 77 |
| 1897 | 40 |
| 1898 | 79 |
| 1899 | 80 |

Attached is a list of United States fishing vessels which have entered Canadian ports from January 1 to November 1, 1899, showing the number of times each vessel entered. The large number of these total entries, twelve hundred and twenty-eight in all will illustrate to what a great extent United States fishermen make use of our ports.

List of United States Fishing Vessels which have entered Canadian Ports from October 31, 1898, to October 31, 1899, showing the number of times each Vessel entered the several ports; most of these Vessels besides entering at the Custom Houses were boarded by Canadian cruisers whithin the limits.

| | Name of Vessel. | Arichat. | Barrington. | Canso. | Georgetown, P.E. | Halifax. | Liscombe. | Liverpool. | Lockeport. | Louisbourg. | Lunenburg. | North Sydney. | Port Hawkesbury. | Port Hood. | Port Mulgrave. | Shelburne. | Souris, P.E.I. | Whitehead. | Yarmouth. |
|----|------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|----------------|---------|------------------|----------|-----------|------------|------------|-------------|------------|---------------|------------------|------------|----------------|------------|------------------|------------|-----------|
| | Arthur D. Story Admiral Dewey | | | 4 | | | ٠. | | | 1 | | | | | | | | | |
| | A. R. Crittenden | | | | | ĩ | 2 | | i | | | 2 | 1 | | | | | | : : |
| | Alva | | | 1 | ۱ | ١ | ٠. | | | • • | | | | | | | | | |
| | Arbutus | | ١ | | | | • • | | | | | | | | | 1 | | | • • • • |
| | A. E. Whyland | | | | ١ | ١ | ١ | l | ١ | 3 | | | ł | | | | | | |
| | Atlanta | | | i | :: | | | | 3 | i | | | | | | 2 | | | 3 2 |
| | A D Cifford | ı | 1 | | | | | | | | | | | | | | | | |
| ŀ | Annie S. Sanbourne Arthur Binney | | 2 | | ١ | | ٠. | 1 | ١ | ١ ! | | | | | | 1 | l | | 12 |
| 1. | Agnes E. Downs | | ١ | 4 | ١ | ١ | ١ | 1 | ١ | 1 : | | 1 | ı | ł | 1 | 1 | ···· | | 1 |
| | Annie Greenlaw Alice R. Lawson | | | 1 | ļ | 1 | | | 1 | 1 | | | | 1 | 1 | 10 | l | | |
| ŀ | Alice M. Parsons | 1:: | | 5 | | | :: | | :: | | | | | | | 1 | • • • • | | 1 |
| 1 | Arbitrator | ·• | | 1 | | | | | | | | | | | | 2 | | | |
| ŀ | A. T. Cotfin Annie E. Lane A. S. Clifford Annie C. Hall A. S. Cornell Annie E. Waterman Addie M. Story Almeida Blue Jacket | 1 | 2 | | | · · | | • • • • | | • • • | | | | | • • • • • | | | | 1 |
| ľ | A. S. Clifford | | . <u>.</u> | | | i | | | :: | | | | | | | | | |] |
| | Annie C. Hall | ŀ | 2 | | • • | | 1 | | | | | | | | | 1 | | | |
| ľ | Annie E. Waterman | :: | :: | | | | : : | | :: | · · | | | | | | i | | | :::: |
| ١ | Addie M. Story | | | | | | ٠. | | | | | | | | | 2 | | | |
| | Blue Jacket | | | · · · i | | :: | l:: | | | i | | | | | | 2 | | • • • • | |
| ١ | Blue Jacket Bessie M. Devine Belle Franklin | | ٠. | 3 | ١ | | | | | | | 2 | | | | | | | |
| | Belle Franklin Bertha May | | | 1 | | | ٠. | | | | | | | | | | | | |
| | Bertha May Braganza Cecil H. Lowe Common wealth Carrie W. Babson Canopus Columbia Carleton Belle Conductor Centennial Carrie E. Phillips | | | | :: | 2 | | | i | | | | i | | i | | | | 1 |
| l | Cecil H., Lowe Commonwealth | | $ \cdot \cdot$ | | | | ·; | | | | | | | | | 1 | | | |
| | Carrie W. Babson | | :: | i | | :: | | | . " | i | | | | :::: | | 5 | l:::: | | 2 |
| ١ | Canopus | $\cdot \cdot \cdot$ | ŀi | | | ٠; | | | | | | | | | | 1 | | | |
| | Carleton Belle | | | ĺi | | 1.1 | :: :: | | :: | | | | | | | | | •••• | 2 |
| Ì | Conductor | ٠. ا | | 2 | | ١ | 1 | | | | | | | | | | i | ĩ | |
| | Carrie E. Phillips | : : : | | | | 2 | | | | 1 | | | | | | | 1 | | |
| | Cosmopolitan | | | ļ | | | | | :: | :: | :::: | | | | | | | | i |
| | ∪arrier Dove Clara Clarita | | | | :: | | | | · · | 1 | | · · · · | | 1 | | | | | 2 |
| | Centennial Carrie E. Phillips Cosmopolitan Carrier Dove Clara Clarita Clara P. Sewell Carrie C Dido David Sherman | | i | | | | | | :: | 1.* | | | | 1:::: | | :::: | | | :::: |
| | Carrie C | $\cdot \cdot \cdot$ | | ; | | | · · | | | | | | ···· | | | 2 | • • • • | | |
| | David Sherman | | | | | | | | 1:: | | | | | :::: | | | | | ···i |
| - | David Sherman D. A. Wilson Dawson City Dora A. Lawson Eliza B. Campbell | . | | 1 | | | | | | 1 | | | ļ | | | 2 | | | 2 |
| | Dora A. Lawson | 1: | | 2 | 1:: | 1:: | 1:: | | :: | 1 | | 1 | 1 | | | | | | |
| | Eliza B. Campbell | 4 | | 2 | | | | | 1 | 1 | 1 | | l | 1 | | 1 | | | |
| | Elsie M, Smith Elenora | 2 | ! | 1 | | ١ | | | ·· | | | | | | | | | 2 | 1 1 |
| Į | Eldora | ٠ | | | 1 | | ١ | | 1 | | | <i>.</i> | | | | | | 1 | .: |
| IJ | E. C. Hussey Ethel B. Jacobs | | ١., | 1 | ١ | ١ | | | | | | | 1 | | 1 | 3 | | | 4 |
| 1 | Edward Trevov | i | | 1 | 1 | ١. | 1 | | 1 | 1 | | | | | | | | 2 2 | |
| ٦ | Edward A. Rich | | . 1 | | ١ | 2 | 1 | | 1 | | 1 | | 1 | | | 1 | | | 1 |
| | Ella G. King Ester Anita | . . | 1 | | | · i | :- | 1 | 1 7 | | | | | | | ٠ | | | 2 |
| ı | Elisa Boynton | | l | l | ١ | ١ | ١ | 1 | ١ | II. | | ľί | l | | | ı | | 1 | 1 |

List of United States Fishing Vessels which have entered at Canadian Ports from October 31, 1898, to October 31, 1899, &c.—Continued.

| Name of Vessel. | Arichat. | Barrington. | Canso. | Georgetown, P.E.I. | Halifax. | Liscombe. | Liverpool. | Lockeport. | Louisburg. | Lunenburg. | North Sydney. | Port Hawkesbury. | Port Hood. | Port Mulgrave. | Shelburne. | Souris, P. E. I. | Whitehead. | Yarmouth. |
|-------------------------------------------------------|-----------------|----------------------------------------|--------------------|--------------------|----------|-----------|--------------------|--------------------------------------------------------|--------------------------|------------|---------------|------------------|------------|----------------|------------|------------------|------------|-----------|
| | | | | | | | | | | | | | | | 1 | | | |
| Elsie F. Rowe | | | | | | •• | 1 | 1 | | | | | | • • • | ····5 | | | |
| Ellen F. Gleason Edward A. Perkins | | | 3 | | | • • | 1 | | | | i | | 1 | | | 1 | ! | |
| Emma & Ellen | | | | | | ٠. | 1 | | | | | | | | | | | i |
| Edwin B. Holmes | | 1 | 1 | | | ٠. | | | | | | | | | | | | 1 |
| Electa A. Eaton Eliza H. Parkhurst | | | 3 | | · | • • | | | | | | | • • • • | • • • • • | | | 5 | • • • • |
| Essex | 1:: | | i | 1. | | • | | 1 | | | 3 | 1 | | 1 | | | | 6 |
| Elector | | | 1 | | 1 | | | | | | | | | | | | | 1 |
| Emma E. Wetherall | | | | | | | | | 1 | | | | | | | | | 6 |
| E. A. Rice Everett Pearce | 1:: | i | | 1:: | 1 | • | | | | | | | | | | | | 1 |
| Edward Glover | 1 | 1 | | | | ١ | | 1 | 1 | | | | l | i | 1 | | | 1 |
| Effie M. Morrisey | | | | | | | | | ļ | • • • • | 1 | | | | ••• | | | |
| Edith S. Whalen Edith N. McInnes | ١ | 1 | ١ | ١., | | | | l | 1 | | | | | | 1 | | | |
| E. S. Eveleth | 1 | | | 1 | | ٠ | l | ١ | ١ | | | | | | 1 | | | |
| Edith M. Prior | 1 | | | | ٠ | · · | | | | | | | | | 4 2 | | | |
| Evelyn L. Smith Epes Tarr | | | | | • • | | | | | | | | | | 1 | | 1 | |
| ${f Florence}\dots\dots\dots$ | | 3 | 1 | | 1 | | i | | | | | | | | 3 | | | 1 |
| Fanny S. Orne | | ŀ.; | | 3 | ٠. | ; • • | | | | | | | | | | | | |
| Flora L. Nickerson Fernwood | | 1 | | 3 | | | | | | | | | • • • • | | ····i | | | 4 |
| F. W. Homans | 1 | | | 1 | | ١., | | 3 | | | | | | 1 | | 3 | | |
| Grace Darling | | | 1 | Ι | | | 1 : | 3 1 | ١ | | | | | | 1 | | | 2 |
| Golden Hope Governor Butler | | | | | | | | i i | | | | | | | | | | 2 |
| Hadstone | 1 | | 1 1 | ι | | | | | 1:: | | | | | | | | | :::: |
| Grayling | | 2 |] | IJ., | | | | . 2 | | | | | | ļ | | | | , 2 |
| Glorianna George F. Edmunds | | |] | L | • | | | | l'i | | | | | | | | | |
| Georgie Campbell | 1. | . | .] i | i | | | | . | | | i | | | | 2 | | | |
| Golden Rod | | • • • | | 1 | | . • • | • | $\cdot \cdot \cdot$ | · · · | | | | | | · · · · | | | |
| Gardener M. Tarr George F. Pyke | | | | 1: | | 1: | | . | . | • • • • | | | | | | | | 2 |
| Garland | . . | | | | | . | | ٠١., | . | ļ | | 1 | 1 | 1 | 1 | . 1 | | |
| Glenora | | | | | | • ! • • | | ٠ ٠ . | ٠ ٠ ٠ | | | 1 | | | ··· | | | |
| Horace B. Parker Harry G. French | | $\begin{vmatrix} 1 \\ 3 \end{vmatrix}$ | | i. | | | | 2 | 1.3 | | 1 | | | | | | | •••• |
| Hattie A. Heckman | | | | 14. | . 1 | ١., | | $\begin{bmatrix} 2 \\ 2 \end{bmatrix}$ | i] | 2 | | | 1 | | | | | |
| Hazen Abbott | 1. | | | | | | . [| 1 | ٠١ | | | | | | | | . | |
| Hattie & Lottie Helen Story | | | | | | | | $egin{array}{cccc} 3 & \dots \\ 2 & \dots \end{array}$ | | | | | | | | | 1 | |
| Hattie M. Graham | | | | 1. | ٠. | ٠. | | 1 | . | | | | | | | | [] i | |
| Henri N. Woods | . . | ٠. | | 1 . | | | | 3 | | | | | | | . 1 | l | | 2 |
| Henry W. Longfellow Hattie L. Frask | . - | : : | · · · · . | 4 . | • • | • • | • | 2 1 | · · · | · ···· | | | | | | 2 L | | |
| Hattie E. Worcester . | | - | | 1 | | ٠. | . j | | 1 | | 1 | 1 | | | | | | i |
| Howard Holbrook | . . | . . | | 2 . | ٠. | : - | | . : | 3 | | . 1 | L | | | | . | . 1 | ١, ا |
| Hazel Onita Helen F. Whitten | . - | | | 1 3 | • : | 1 1 | : ::: | | | | | l | . | | • • • • | . | | 3 2 |
| Harvester | | | | | | | | | 1 | 1 | 1 | 1 | I . | | 1 / | 51 | 1 | 1 1 |
| Horace Albert | . . | | | | | ٠. | . | - - | . . | | | 1:::: | | | . ` | . | | 6 |
| Harvard Helen G. Wells | $\cdot \cdot$ | . - | $\cdot \cdots $ | $\cdot \cdot$ | ٠ ٠ | | • ••• | . - | $\cdot \mid \frac{1}{2}$ | l] | | . | | . | | | . | · •• • |
| Henry M. Stanley | | . : | | 1 | | 2 | 2 | i i | | | | i | | 1 | · · · | 3 | | |
| Henry M. Stanley Hattie E. Herenan Hiram Lowell | . : | | .] | | | . . | . | .i. | . . | | | . 1 | 11 | | . 1 | | | |
| Hiram Lowell | $\cdot \cdot$ | | • ••• | . . | . - | | $\cdot \cdots $ | - - | | | | . 1 | | | | | | |
| Helen May Butler | .1. | | -1 | | | • i • | | | | ٠ . | L | | | | | | | i |

List of United States Fishing Vessels which have entered at Canadian Ports from October 31, 1898, to October 31, 1899, &c.—Continued.

| | Name of Vessel. | Arichat. | Barrington. | Canso. | Georgetown, P.E.I | Halifax. | Liscombe. | Liverpool. | Lockeport. | Louisburg. | Lunenburg. | North Sydney. | Port Hawkesbury. | Port Hood. | Port Mulgrave. | Shelburne. | Souris, P.E.I. | Whitehead. | Yarmouth. | H 421 cmtmics |
|----|--------------------------------------------------|-----------------|----------------------------------------|-----------|-------------------|----------|-----------|--------------------|--------------------------------------------|------------|------------------|------------------|------------------|------------|----------------|------------|----------------|------------|------------|---------------|
| 24 | Irving Leslie | | | | | | | 1 | | | | | | | | | | | | |
| | Indiana | :: | | | | • • | • • | | | • • | | • • • • | | • • • • | | 2 | | | 1 | |
| 7 | Jennie B. Hodgdon | 2 | | 3 | | ٠. | 1 | 1 | 1 | ! | | l | | | 1 | 3 | | | | |
| | J. W. Collins Joseph Rowe | . • | | 4 | | 1 | ٠. | 1 | 1 | | | 1 | | | | 1 | | · · · · i | | |
| | James R. Clarke | | | | | | | 1 | 1 | | | ļ . . | | | | 2 | | | | |
| | James A. Garfield | | 2 | | | | | 1 | | ٠. | | | | • • • • | • • • • | 1 | • • • • • | | 2 | |
| | John L. Nicholson John S. Presson | :: | | | | | | 1 | | 1 | | | | | | | | | | |
| | Judique | | | 1 | | 1 | | | ١ | ١ | · | 1 | | | | | | | 1 2 | |
| | James Rowe | | | | | · i | :: | ···· | :: | | | | | | | ····ż | | | 5 | |
| | J. K. Manning | :: | 1 1 | | 1 ' | | | 1 | 1 | 1 | | ŀ | | | | | | | | |
| | Joseph McGuire | | ' | · • • • | | ٠.١ | • • | | 1 | 1 | | | i | | •••• | | • • • • | | • • • • • | |
| | James E. Stetson Jubilee | :: | | | | | 2 | | | ļ | | | | | | 1 | | | | |
| | Kearsage | | | 1 | | | ١ | | 1 | 2 | | 2 | | | | | | | | |
| | Kate L. Palmer Loring B. Haskell | 2 | | 1 | ! | 1 | 1 | . 9 | " | l:: | | i | 1 | | | 1 | | | | |
| | Laurence A. Munroe | | | 3 | | | | 1 | 3 | | <u>.</u> | 1 | | | | | | | | |
| | Lizzie B. Adams | | | | :. | | | 1 | | i | 1 | | 3 | | | 1 | | | | |
| | Lottie E. Hopkins | | | | | | | | 1 2 | ٠. | i | | | | | 2 | | | | |
| | Lizzie M. Stanwood | | | 1 | · · · | 1 | 1 |] | 1 | | | | | | | | | ····i | | |
| | Lottie Burns | | :: | i | | :: | | | | | | | 1 | l | | | | | | |
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| | Lottie Gardener Lizzie Griffin | 1:: | 1.2 | 3 | | 1 2 | 1 | 1 | ١ | 1 . | ! | İ | 2 | | 1 | 1 | | | | |
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63 VICTORIA, A. 1900

List of United States Fishing Vessels which have entered at Canadian Ports from October 31, 1898, to October 31, 1899, &c.—Continued.

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List of United States Fishing Vessels which have entered at Canadian Ports from October 31, 1898, to October 31, 1899, &c.—Continued.

| Number. | ame of Vessel | | Arichat. Barrington. | Canso. | Georgetown, P.E.I. | Halifax. | Liscombe. | Liverpool. | Lockeport. | Louisburg. | Lunenburg. | North Sydney. | Port Hawkesbury. | Port Hood. | Port Mulgrave. | Shelburne. | Souris, P.E.I. | Whitehead. | Yarmouth. | Total entries. |
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| | Cotal entries | 2 | 7 44 | 183 | 4 | 68 | 27 | 128 | 65 65 | - 69 | 8 | 87 | 26 | 1 | | 213 | 12 | 44 | 217 | 1,228 |

In the Fisheries Intelligence Bureau Report annexed, will be found a list of LaHave bankers and trawlers, North Bay hand-liners and Labrador men, and the Lunenburg banking fleet. This list will show to what a very large extent the fishing industry is carried on in Lunenburg County.

THE MACKEREL FISHERY.

In nearly every locality, this fishery has been a most distinct failure. In num bers of places, not a single school has been sighted the whole season. There are, of course, all sorts of conjectures to account for this. Lots of fishermen think it is on account of the pernicious purse-seine; others say on account of the enormous quantity of decayed lobster gear; and again others, that it will not be any better till entirely new schools come on our coast; United States fishing vessels hardly did anything whatever, and the *Ethel B. Jacobs* usually the high liner, gave it up as hopeless, and proceeded to the Irish coast, where she was subsequently lost.

A firm at Canso made an experiment this season of the use of the otter trawl, which, though some people may not know it, is the English 'drag-net', now so extensively used by the fishing steamers in England and Scotland. Owing principally to the lack of experience in the use of this appliance, and not being properly equipped, the experiment was not a thorough success, but it has demonstrated that the use of the trawl is not impracticable on this coast, and those engaged in trying to carry on the work reached the conclusion, that with proper equipment, and the necessary experience, the appliance could be successfully operated here, and would probably be an improvement on present methods of fresh fishing. I am told it will be heard from again.

OFFICERS REPORTS.

EXTRACTS from reports of captains commanding canadian cruisers, as follows:—Captain Knowlton, of the 'Osprey'; Pratt, 'Curlew'; Kent, 'Kingfisher'; Dunn,' Petrel'; Walbran, 'Quadra' and May, 'Constance.'

D. G. S. 'QUADRA'.

VICTORIA, B.C., December 30, 1899.

Commander O. G. V. Spain,
Commanding Fisheries Protection Service,
Ottawa.

SIR,—I beg to forward you the following report of the Fisheries Service performed by the Quadra during 1899.

Owing to the large number of lighthouses and other aids to navigation lately established in the waters of British Columbia, we were unable to give that attention

to our fisheries which their growing importance demands.

On July 28, I proceeded on fisheries service to the west coast of Vancouver Island with Mr. Stumbles from the Marine and Fisheries Department, Ottawa. We visited San Juan River, the Somas River, Aiberni, and Ucbucklesit Inlet and river leading to Anderson Lake. The obstruction to the salmon ascending the Somas River to the large inland lakes of Kleecoot and Great Central, known as the Paper Mill dam, was thoroughly inspected, and the river examined from Kleecoot Lake to Alberni. On the return cruise a stay was made at Otter Point where inquiries were made from residents as to the different points in this locality and the dates when the salmon are noticeable in large numbers on their way to the Fraser River.

On November 14, a fisheries court was held on the Quadra at Alert Bay, at which I presided, to investigate a charge made against the manager and head-fisherman of the Alert Bay Canning Company for illegally fishing in Campbell River, Vancouver Island. The defendants pleaded guilty to the charge and a fine was inflicted

and paid.

I have the honour to remain, sir,

Your obedient servant,

JOHN T. WALBRAN, Captain Fisheries Protection Service.

OWEN SOUND, Dec. 30, 1899.

Capt. O. G. V. Spain,
Commanding Fisheries Protection Service,
Ottawa.

Sir,—I have the honour to submit my annual report of the work performed

during the past season by the Petrel.

On the receipt of your letter of the 11th of April, instructing me to proceed to Goderich and get the ship ready for commissioning, I did so, and departed for Owen Sound on the 28th to complete the fitting out, as also instructed, making a

departure for Lake Erie on the 8th of May, arriving at Amherstburg on the 9th at 2.25 p.m., and after taking on 21 tons of coal proceeded same day to Pelee Island and at once established the patrol of the boundary line as formerly. On the 11th prepared gas buoys, took them in tow for Pelee Passage and put one in place that evening, the other at daylight on the 12th, removing winter buoys in each case. On same day I seized twenty-three American gill-nets set in our waters. On the 16th I seized fifty-one American gill-nets three knots to the north of boundary line containing good catch of fish and forty ducks; nets set in eleven fathoms of water. On the 20th placed spar buoys on Grecian Shoal and North Harbour Reef; on the 22nd pulled out spars and cleared away wreck schooner Groton leaving from twenty-five to thirty feet of water over wreck; on the 24th had dressed ship to celebrate Her Majesty's birthday but received a telegram from the Deputy Minister to proceed at once to the wreck of the Ganges, which was said to be a derelict, so departed at 8 On the 25th commenced work on wreck of schooner Ganges; 29th, engaged diver, procured dynamite, a scow and other appliances. 30th, 31st, 1st and 2nd June continued work on wreck, completing on the last date, leaving over twenty feet least water over it. On the 7th I removed the life-boat and appurtenances from Pelee Island to Pelee Point; 14th, delivered 89 nets to C. Ross who tendered \$1,35 30th, I seized twelve American gill-nets. July 1, Dominion Day at Port Dover dressed ship and fired a salute of fifteen guns. On August 7 placed spar buoy on end of shoal forming a harbour at Long Point. 26th, proceeded to Windsor to procure lumber for life-boat station to be built on Pelee Point. 28th, landed lumber, shingles, &c., on Pelee Point. 29th, procured stone for foundation; 30th, crew on shore at work building life-boat station; 31st, and 1st and 2nd September continued work, building nearly completed. On the 23rd I seized (at the request of Collector Gott of Amherstburg) the American tug Leathem D. Smith, for infraction of the Customs laws and delivered her to the collector. A fine of \$400 was inflicted. 25th, having received instructions to take Judge Horne and party to Pelee Island to hold Court of Revision, took party on board and proceeded to Pelee Island. Not being able to land at Island, came to anchor off Leamington; 26th, landed Judge and party in small boat, could not land at dock on account of storm; Judge held court and again came on board, when departed for and landed party at Windsor. On 4th of October I seized twenty-three American gill-nets in our waters containing a few herring and five trout, one trout weighing 22 lbs. 3 oz., the largest caught for years in Lake Erie as far as I could learn. 12th crew employed painting life station on Pelee Point. On 18th, having received instructions to proceed to the mouth of Detroit River to see what was best to do with the wreck of the American schooner Mary Amelia, (to remove which \$600 was asked by a wrecker,) I put my crew to work to clear away the booms and other spars, cut down the masts and towed the wreck out into the lake and took it as near the beach as possible and out of the way of navigation. On the 20th November, having heard that the American Lighthouse boat had started to take in the gas buoys, I took in the Pelee Passage ones, placing spar buoys for the winter in their place, towed buoys to Amherstburg and gave them in charge of Light-keeper Hackett of Bois Blanc Island. 28th took in spar buoys from Grecian Shoal, North Harbour Reef and one for Light-keeper Hackett off Detroit River Light. (In December 4 I seized ten American gill-nets, which are stored in Amherstburg. On the evening of the 8th having received a telegram from you saying "if I thought there was any chance of being caught in the ice to proceed at once to Owen Sound" and as the ship was caught by one day's delay last season I deemed it wise to take as few chances as possible, so departed on the 9th, making Sarnia that night and proceeded up Lake Huron the next morning, lay in Sand Beach until 10.10 p.m. and made Cove Island soon after daylight and just in time to escape one of the heaviest gales of the season on Lake Huron. On account of trying to get the Surprise Shoal bell buoy at Jackson's Cove I did not reach Owen Sound until 12.25 p.m. on the 12th where ship was placed in winter quarters and put out of commission on the 14th.

REMARKS.

You will observe a very great falling off in the seizures of nets this year. The American fishermen are finding out that it does not pay to risk their nets in our waters. A very careful and watchful patrol of the boundary line was almost continually kept. I allow a margin in the open lake of a mile or so to be sure of my ground; over this they have sometimes passed. I find I must keep them to the line, if I leave one that is over the next fishermen who comes along will go a little further and so on. A great deal of grappling was done but no nets were got by that means. They lost too many that way last year and have given up setting without buoys.

You will also observe that much more work than formerly has been done for

the Marine Department.

The fishing in Lake Erie, was, I think, fully up to that of former years for the whole lake. A very heavy run of fish took place early in the summer but the fall fishing was not so good. Mr. Edward Harris of the Long Point Company told me that it had been the best season for him in many years. Our own fishermen, as far I could learn and observe, kept within the laws and regulations very well. I counted all the pound-nets on our side and found that all were licensed. I inspected all the light-houses on our side Lake Erie with the exception of Mohawk; it was always blowing when I happened to be in that locality. I found them all fairly well kept. I have some fears for Pelee Spit and Colchester lights, as repairs to the cribwork in both cases are badly needed, and, should we have as much ice and bad weather as last winter, both lighthouses will be in great danger.

The Petrel logged during the season 15,324 miles.

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

E. DUNN, Commanding D. G. S. 'Petre l.'

To Commander O. G. V. SPAIN, R.N., Commanding Fisheries Protection Service of Canada, Department of Marine and Fisheries, Ottawa.

SIR,—I have the honour to forward to you my annual report of work performed

by the ship under my command during the season of 1899.

Receiving instructions from you late in March to place the Osprey in commission on April 20, I instructed Chief Officer Acker on April 15 to proceed at once with the work of getting ship ready to commission. I arrived at Shelburne on the 19. The work had progressed slowly, weather being unfavourable, however we went into commission on April 22. On the 24th, after having some difficulty in getting my crew gathered up, I sailed by your instructions eastward towards Magdalen Islands, calling at Halifax, Liscomb, Arichat, arriving at Port Hawkesbury on the 29th, found ice reported further north. May 1 ice cleared, proceeded calling at Pictou and Charlottetown, meeting with some stormy weather and drift ice. Arriving at Magdalen Islands on May 13, I found seven United States trawlers six held Canadian licenses the one who was unlicensed had nets to catch his own bait. There were several Canadian trawlers baiting, beside a number of small Canadian buyers. Herring having struck the islands very early. Now the last run was considered to be nearly over. I at once proceeded, being previously instructed by yourself to be at Halifax not later than May 21. 16th passed through Strait of Canso proceeding toward Halifax and arrived on the morning of 20th, where we had a few days of bad weather.

On the morning of 25th we proceeded toward Shelburne with our distinguished passenger General Lord William Seymour, yourself and Lieut. Bowker on board. After a few hours of very moderate weather we were favoured with a fine westerly breeze full sail, which his lordship enjoyed very much, Shelburne 26th and Halifax

29th by way of Lunenburg, all enjoying the round voyage.

May 30, by your instructions we proceeded eastward calling at Jeddore, and while there had an unpleasant duty to inflict a fine on a factory for illegal lobsters. On June 4 we took up our station between Liscomb and Louisburg, Canso headquarters mails and telegrams. Same date in company with several United States seiners cruising westward with fleet which did poorly, some going home clean while others had

very small catches.

We continued to cruise not his station taking runs north to Gaspé and Prince Edward Island and westward to Halifax. Proceeding eastward we took up our station at Canso again, our attention mostly taken patrolling the coast looking after illegal lobster fishing which is followed only by a very few of the mean class of fishermen, while the respectable class hardly dare inform on them as their property might be in danger. On October 20 under cover of a dark, misty night (after all other means had failed) I manned my boat (ship lying at Whitehaven) to proceed to Whale Island which I had long been watching, last as well as this year, I found a good case a man just putting the finishing touch on the tins. Same night at Big Dover Island I came on a proper den of poachers. I destroyed and burned camp with all it contained.

On October 31, 9 a.m., detained the U.S. fishing vessel Flora L. Nickerson of Booth Bay for buying supplies without a Canadian license. This vessel was released

at 9.30 p.m. on payment of a license.

On November 3 with yourself on board we proceeded towards Sydney passed through St. Peter's Canal 3 p.m. and on the 4th ran down the lake arriving at North Sydney noon of 5th. Both cruisers Curlew and Kingfisher in port with a fleet of five seiners. 6th, seiners went out, Kingfisher in company; we cruised 7th and 8th only to find that all the fleet had gone west for home, only one vessel being in luck had 140 barrels, another had six, so mackerel fishing proved a failure this season on this coast. On the 9th we proceeded west and arrived at Whitehaven on the 11th calling at Louisburg. We had several days of very heavy wind while at Whitehaven. On the 18th proceeded and calling at Liscomb and Spry Bay; arrived at Halifax on the 23rd, sailing again on the 26th, worked our way westward, arrived at Shelburne on the 28th and find that the fishermen report a very successful season which is a very unusual report.

We cruised in the vicinity of Shelburne until December 13 when we went

into winter quarters and paid off the crew.

The season has been quiet and uneventful, except the detention of the Flora L. Nickerson which was released on payment of a license. Our annual sports passed off finely, the cruiser Kingfisher almost sweeping the board.

I have the honour to be, sir,

Your obedient servant,

C. T. KNOWLTON, Commanding Cruiser 'Osprey.

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CRUISER 'CURLEW.'

St. John, N.B., December 30, 1899.

Commander O. G. V. Spain, R. N.,
Commanding Fisheries Protection Service,
Department of Marine and Fisheries,
Ottawa.

Sir,—I have the honour to submit to you herewith my annual report on the

various duties performed by this ship during the past season of 1899.

According to the usual annual custom the ship was put into winter quarters in Magés dock during December, and while there during the winter a thorough overhauling was given the machinery. Other slight repairs were made throughout the ship, and she was put in thorough order for commissioning on April the 15th. On that date the ship was commissioned the crew signed, and during the afternoon we steamed for the mouth of the Bay of Fundy, I found the fishermen there preparing for the various fishing industries, while line fish and herring were beginning to put in an appearance along the coast. As the sardine factories were not yet in operation, the small herring that were being caught in the weirs, were finding a ready sale to Nova Scotia schooners buying lobster bait. The days were very busily occupied in distributing bounty cheques, issuing new licenses, and settling numerous fisheries disputes that were awaiting my arrival.

At the beginning of May I received your orders to report at Halifax to you on the 11th instant which orders I carried out. Making a run to Salmon River and return on the 16th and 17th instant, the condemned United States fishing schooner, Frederic Gerring was placed in our charge to be towed to Newcastle, N.B., for use as

a lightship on the Miramichi River.

A heavy gale prevented us from leaving Halifax till the 22nd, but after an uneventful run of 48 hours Point Escuminac was rounded on the 24th at noon, arriving at Newcastle in the evening. Owing to the strike of pilots on the Miramichi River we were unable to procure one, and were compelled to take a fisherman instead.

On account of this strike the pilot commissioners of the river apprehended that trouble would result, and we were ordered to remain while the matters in dispute were being adjusted by Captain Douglass, who was sent there by the Department of Marine and Fisheries.

On May 31 orders were received to returned to the cruising grounds, and leaving there on June 1st we steamed to Pictou and bunkered. Arriving at Canso on June 3. The fleet of United States seiners were found to be cruising off White Head and catching very few mackerel. Dense fogs and stormy weather operated against the movements of the mackerel fleet, as well as the fish being unusually scarce.

As nearly all of the seamen that were shipped in St. John in the spring had by this time decided to return home, a run was made to Liscombe and Salmon River, and the vacancies were filled. From thence a cruise was made to Cape Breton anchoring at North Sydney, where we were joined by Inspector Bertram on June 12 and with him we left for a visit to all the lobster factories on the north and west coast of that island. Many of the factory owners were taken by surprise, and no doubt, much good was accomplished by our visit. Cheticamp was reached on the 14th, and we spent a day there while the Inspector visited the falls on Little River. Next day the cruise was resumed, inspecting factories in Gut of Canso and St. Peters Bay. Steaming through the canal and lakes to North Sydney where the Inspector left ship. On June 20 steamed to Mulgrave, via the lakes, where I received personal orders from you to steam to Poulamond and report as to the necessity of a lighthouse at the entrance of its harbour.

Your orders were then received to return to the Bay of Fundy, and calling at the numerous ports on the way to enforce lobster regulations. St. John was visited for bunkering purposes on July 4. Thence among the fishermen at the mouth of

the Bay, I found that good fishing of all kinds was in progress. After spending two days in Charlotte County we were ordered to return to the Nova Scotia coast again enforcing lobster regulations.

We also had the pleasure of meeting you at Guysboro, on July 20th and then

returning to the south coast suppressing attempt at lobster fishing.

After a run to Louisburg for bunkering on July 29, we received your orders to be at Shelburne for the annual regatta held there on August 7, 8 and 9. Numerous yachts were there from Halifax and Yarmouth and very successful and enjoyable races were held.

Cruising westward the Bay of Fundy was again visited, where five days were spent, and then a run was made to North Sydney, arriving there on the 25th. After bunkering and receiving other supplies, Inspector Bertram came on board for the purpose of a second visit to the factories around the island. This work was completed by the 31st where we arrived at Port Mulgrave and the inspector returned by

train to Sydney.

From Mulgrave we proceeded to Georgetown, P.E.I., meeting there the other cruisers in the service for the annual sports which took place on September 4 and 5. They were a great source of pleasure to the companies of all the ships, and all the sports were entered into by officers and men with great enthusiasm. While this ship made a much better showing than last season and was successful in capturing several of the prizes, still we hope to show a greater improvement at our next annual sport.

From Georgetown, Isaac's Harbour was reached on September 7, where we took into the government service the tug-boat Florence C. for the prevention of illegal lobster fishing between Halifax and Canso. First officer Burns was placed in charge, with three seamen, and she was fitted from this vessel with every essential for the

successful prosecution of her work.

Yarmouth was reached on the 14th inst., where you came on board the ship and we steamed to Tusket, where you held an investigation among Tusket people.

returning next day to Yarmouth.

Lobster matters again requiring attention on the eastern coast, a run was made in that direction, anchoring at Canso on the 20th. Cruising westward from there calling into various ports where illegal fishing was suspected, we put into Yarmouth on the 25th to scale boiler. After completing this a cruise was made upon the spawning grounds at Grand Manan, warning numerous vessels there against violations of the spawning ground regulations. Numerous fisheries difficulties in different parts of Charlotte County were then adjusted, licenses issued, besides This regatta was held on acting as one of the judges at the Campobello Fish Fair. the 19th October at Welshpool, and a strong breeze assisted the committee in carrying out the best programme of races they have had for years. On the 30th your orders were received to report to you from North Sydney, but bad weather prevented our arrival there until November the 4th, and we found very few United States mackerel schooners in Cape Breton waters.

Capt. Douglas, R.N.R., with workmen and supplies, were conveyed to St. Paul's Island, and after four days work there I brought them back to Sydney, where orders

were awaiting us to return to the Bay of Fundy.

On November 11, while lying at anchor at Louisburg Harbour, bunkering, the schooner Sailor' Home of Halifax, while under way fouled us, carrying away our fore-topmest, requiring us to put into Halifax and being provided with a new foremast.

Leaving the Gatling at Halifax, we sailed westward on the 23rd for Port Mouton, where illegal lobster fishing was reported in progress. This was found correct, and we proceeded to destroy large numbers of traps, and narrowly searched a number of houses for evidences of illegal fishing. Yarmouth was reached for coaling on the 27th, and on the day following Charlotte county was reached, and we began the collection of fishermen's bounty claims and the settlement of numerous fisheries complications.

This kept us busily employed till December the 17th, when we steamed from Beaver Harbour to St. John to put steamer into winter quarters. This was done on December 19, and the crew paid off same day, retaining the engineers and

stokers to repair machinery.

My report showing cost of the several departments of the vessel for the year 1899 is almost ready, and will soon be forwarded to you, also the cost of patrol boat *Florence C*.

Special reports on various matters have been submitted to you at intervals

during the year, which I trust you have found satisfactory.

I have the honour to be, sir,

Your obedient servant,

JOHN. H. PRATT,
Commanding 'Curlew.'

Commander O. G. V. SPAIN,
Commanding Fisheries Protection Service of Canada.

SIR,—I have the honour to report the work done by the Kingfisher for the season of 1899 as follows:

On May 1st I proceeded to Shelburne to superintend the fitting out of the Kingfisher—on May 10 the ship was placed in commission and sailed on 13th.

The first American seiner arrived on the 15th, by the 17th I proceeded east with a small fleet, calling at Liverpool, Cape La Have, and Lunenburg. No Mackerel being seen west of Sambro, the vessels moved east by the 24th. I followed on the 25th, running down in company with several seiners to Cape Canso, when we fell in with twenty-two sail, which as far as I could ascertain comprise the whole Cape shore fleet. We cruised about Cape Canso for a few days, fleet finding no fish.

On May 31 orders were received to proceed to Charlottetown. I proceeded to that port, arriving on June 2—while there the ship's company were measured for uniforms. On June 4 we took up our station off East Point with headquarters at

Souris, where I continued cruising until October 18.

The mackerel fishery was again a failure in the Gulf of St. Lawrence, the greater part of my time was taken up looking after illegal lobster fishing. I employed a steam launch for twenty days which was most effective and enabled me to do good work, making it about impossible for them to get traps out. I destroyed quite a number of traps but nothing compared to previous years. The assistance of the

steam launch was very important.

On June 26 orders were received to be in Sydney on July 12 with the Kingfisher to participate in sports at the Carnival. I arrived at Sydney on the 10th in Company with six men-of-war, four English and two French. Immediately on arrival I called on Mayor Crowe and offered any assistance I could give him in carrying out his programme. His Worship accepted our assistance, requesting that we should trim the court house with flags and other decorations for the grand ball in honour of the fleet, which we did to the satisfaction of all concerned. The gig race between three of H.M.S. ships and the cruiser Kingfisher was very interesting and was won by the Kingfisher easily. The carnival was a grand success.

On July 21 I arrived back at my station off East Point. The vessels had found very few mackerel during my absence. A few small schools were seen off the 2nd

Chapel first week in September, nothing later.

The mackerel fishery at the Magdalen Islands was also a failure in several localities; total catch for the Islands was 2,700 barrels. Fish being very large and

eagerly sought after at \$24 per barrel.

On August 15, acting on instructions from yourself, I proceeded to Pictou and put ship on marine slip. The next day we hauled over on the slip, had the decks caulked, bottom painted and other necessary repairs made. On the 19th we came off the slip and proceeded to Georgetown, my headquarters for mails and telegrams

having been changed to that port. While there I had the mainsail repaired, same

having burst on the trip to Pictou.

From that time until October 18, we were employed carrying out the law re the the Lobster close season. At the expiration of this time we sailed for Sydney, C.B., to meet the fleet of seiners which always assemble there for the fall catch. On arriving I found six seiners reporting no mackerel. On October 27, the schooner Lena and Maud made a haul of 135 barrels of very large fish, all extra 1. The other vessels of the fleet got nothing to speak of, only two or three barrels each.

On November 6, upon meeting you at Sydney I received instructions to proceed to Shelburne and lay the ship up for winter, on the 10th of that month. immediately arriving at Shelburne on the 9th, paying out of commission next day.

The Fisheries protection Annual Sports were held at Georgetown on September 4 and 5, five ships being present. My ship had the honour of retaining the Fisheries Protection Cup for rifle competition, also to capture the Acadia-Kingfisher Cup from the Acadia. Sir Louis Davies, Minister of Marine and Fisheries, was present on the first day of the sports. He takes a great interest in our ships and always on leaving the grounds has a word of praise for the officers and men.

I have the honour to be, Sir,

Your obedient servant,

W. H. KENT. Commanding 'Kingfisher.'

Quebec, December 30, 1899.

To Captain O. G. V. SPAIN R.N., Commander of the Fisheries Protection Service,

SIR,—In conformity with your instructions I have the honour to submit to you the following report which is a summary of the work performed by the revenue cruiser Constance during the past season of navigation, 1899:

On February 14 last my engineer and his crew began the work of fitting out, and during the first week of March work was commenced on the new deck for the bridge. On the 25th of March the crew arrived on board, and on the 5th of April all hands signed ship's articles.

On April 1 we began to cut the Constance out of the ice at her winter quarters in

Indian Cove assisted by shoremen with their ice saws and crow-bars.

The afternoon of April 3 we cut the steamer clear and into open water, proceeding up to Quebec at once under steam and moored in the Louise Basin for safety from the drifting ice in the river.

After receiving on board a full supply of coal, provisions, &c., we left for the

Gulf on April 7.

On April 27 seized the schooner Providence at St. Anne des Monts River for contravention of the Customs Act, towed her to Rimouski and handed her over to the collector of the port.

On May 15 received instructions from Mr. Fred L. Jones, inspector of customs. to proceed to Shippigan to watch for the schooner Queen of the Fleet, and to seize her

on sight for smuggling on the Nova Scotia coast.

On May 19 we anchored in Shippigan harbour. Here we learned that the

said schooner had been seized the previous day by the collector of the port,

We then proceeded up the Gulf, and from May 25 to June 6 we were at Quebec to take in a new tail shaft to replace the old one condemned by Inspector Samson, which was very much pitted by the action of the sea water. During the above time occupied by the engineer, the crew were employed giving the ship's bottom a thorough

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scraping and painting; also had steering gear overhauled and put in good working order.

By instructions received we left Rimouski on June 20 for the Nova Scotia coast, and on Sunday, 25th, anchored at Port Hawkesbury, and at North Sydney the next afternoon.

The evening of June 29 we left North Sydney for St. Pierre Miquelon with

Messrs. Jones and party on board and returned to Sydney on the July 3.

From July 4 to 18 our cruise was along the Cape Breton and Nova Scotia coasts to Halifax, but owing to the continued southerly winds and heavy fogs, little or nothing could be accomplished in the way of cruising, and on the latter date (July 18) we returned up the Gulf towards the St. Lawrence river.

On July 27 received instructions to proceed and cruise in the vicinity of Caraquet, Miscou and Shippigan, and to keep a sharp lookout for the topsail schooner Resolute from Jersey via Cadiz reported to have a lot of liquor on board to be

smuggled ashore at the latter named place.

On the night of August 21 we succeeded in intercepting the said vessel. Next day, August 22, we followed the *Resolute* into Shippigan harbour, gave her a thorough search, and also watched her closely until the 24th, when her cargo of salt was discharged, but nothing of a contraband nature was on board of her except some six cases of brandy and whiskey, a couple of gallons of wine, and some cigars and cigarettes, all of which were entered on the ship's list of provisions, and were duly reported to the collector of the port. On Monday, September 11, we hauled off the schooner *Sanguan* stranded on the sands at Douglastown and towed her into Gaspé Basin.

On September 12, hauled off the schooner Marie Elmire stranded on the beach

at Fox River and towed her also to Gaspé Basin.

With the exception of the time we were at St. Pierre Miquelon, and on the Nova Scotia coast, our cruise was along the north and south shores of the gulf. Anticosti, and the Bay Chaleurs, covering altogether 16,000 miles, also boarded and searched 107 vessels.

On November 28, we arrived here (Quebec) from the gulf to go into winter quarters at Indian Cove, and on December 4, paid off the officers and crew from further duty, leaving the vessel in charge, for the winter, of my boatswain's mate, John Johnson, and Telesphore Broulotte who keep watch in turn—week about.

I may here mention in conclusion that during the months of October and November the weather, although very open, was very cold with strong gales accompanied with an unusual amount of fog, but less snow than we generally have

at that season of the year.

Nothing unusual occurred during the season except the shipping of a heavy sea on October 1, off the south-west point of Anticosti, during a north-west gale, which carried away our after-companion into the lee scuppers and flooding the cabin and officers quarter with from two to three feet of water.

To prevent a recurrence of the same I would suggest a continuance of the present deck house (that is now over the engine-room) to take in the companion leading to the cabin, making the vessel much more seaworthy, besides giving an additional and comfortable extra room which is very much required.

I have the honour to be, sir,

Your obedient servant,

GEO. M. MAY.

FISHERIES INTELLIGENCE BUREAU.

I have now fifty-three reporting and twenty-four bulletin stations; Mr. T. O'Brien, my new clerk in charge at Halifax, has carried out his work in an excellent manner, and to my entire satisfaction. Appended is a list of reporters, also the annual report of the Fisheries Intelligence Bureau.

LIST of Fisheries Bureau Reporters outside the Civil Service.

| Residence. | Name. | Allowance |
|----------------------|----------------------------------|--------------|
| Dogway Washous N R | E. W. Cross. | \$ c1 |
| Pleamfold P F I | John Dovle | 15 0 |
| Consenst N D | John Doyle Miss E. D. Chenard | 15 0 |
| Oaraquet, N.D | R. F. Bourke | 15 0 |
| D Escousse, O.D | J. J. Keary | 15 0 |
| Comé D O | J. J. Annett | |
| Caspe, F.Q | E. A. Calder | 15 0 |
| Cand Divon D O | Mrs. John Carbery | 15 0 |
| Immonish CD | F R Runles | 15 0 |
| Ingonish, C.B N S | E. B. Burke S. R. Giffin. | 15 0 |
| ISSACS HAPOUR, N.S | John McIsaac | 15 0 |
| L Ardolse, C.D | John Vibert | 15 0 |
| Long Folit, F. V | W. A. Zwicker | 15 0 |
| Lunenburg, N.B | J. A. LeBourdais | 15 0 |
| Magualen Islands | Alex. B. McDonald | 15 0 |
| Mannant Point P () | Mrs. Meunier | |
| Describing DO | Miss Ada Beck | 15 0 |
| Domá D O | Miss Kate Beck | 15 0 |
| Delat Ct. Datas D O | Mrs. P. Bond | 15 0 |
| | J. H. Whitman | 15 0 |
| Salmon Kiver, N.S | D D Vicesult | 15 0 |
| Seven Islands, f. V | P. R. Vignault Mrs. A. Hamon | 15 0 |
| Shippegan, N.D | Miss Grace Pope | 15 0 |
| 5. W. Point Anticosu | C. H. Felthmate | 15 0 |
| | F. L. Hatfield | 15 (|

63 VICTORIA, A. 1900 List of Fisheries Bureau Reporters who are Government Officials.

| Residence. | Name. | Allowance |
|---------------------------|----------------------------|-----------|
| DEL | T. D. Danner | \$ ct |
| Alberton, P.E.I | J. P. Brennan | 15 00 |
| Arichat, West, C.B | C. P. LeLacheur. | |
| Bayfield, N.S. | E. G. Randall | 15 00 |
| Campobello, N.B | A. J. Clarke | 5 00 |
| Canso, N.S | Thos. C. Cook | 15 00 |
| heticamn C.B | S. Aucoin | 5 0 |
| necicamp, C.D. | C. E. Aucom | 10 00 |
| Digby, N.S | J. M. Viets | 15 00 |
| Jabarus, C.B | R. McLean | 15 0 |
| Georgetown, P.E.I | Chas. Owen | 15 0 |
| Hawkesbury, C.B | J. C. Bourinot | 15 0 |
| Liverpool, N.S | J. H. Dunlop | 15 0 |
| Lockeport, N.S | J. R. Ruggles | 15 0 |
| Louisburg, C.B | P. O'Toole Louis McKeen | 15 0 |
| Mahou, C. B | Louis McKeen | 15 0 |
| Malpeque. P.E.I. | J. M. McNutt | 15 0 |
| Margaree, C.B | M. A. Dunn | 15 0 |
| Musquodoboit Harbour, N.S | George Rowlinss | 15 0 |
| North Sydney, C.B | A. G. Hamilton | 15 0 |
| Petit de-Grat. C.B. | P. T. Fougere | 15 0 |
| Port Hood, C.B | E. D. Tremaine | 15 0 |
| Port La Tour, N.S | J. W. Taylor | 15 0 |
| Port Medway, N.S | E. E. Letson | 15 0 |
| Port Mulgrave, N.S. | David Murray | 15 0 |
| Pubnico, N.S. | J. A. D'Entremont. | 15 0 |
| Sand Point, N.S. | R. H. Bolman | 15 0 |
| Spry Bay, N.S. | W. C. Henley. | 15 0 |
| St. Ann's C.B. | D. McAulay | 15 0 |
| St. Peter's, C.B. | D Uranhart | 15 ŏ |

The whole most respectfully submitted.

(). G. V. SPAIN, Commander of the Fisheries Protection Service of Canada.

ANNEX A.

DETAILED REPORT OF THE FISHERIES INTELLIGENCE BUREAU.

HALIFAX, December 30, 1899.

Commander O. G. V. SPAIN, R.N.,

Commanding Fisheries Protection Service Canada.

SIR,—I have the honour to submit the annual report of the Fisheries Intelligence

Bureau, for the season of 1899.

In connection with the Bureau during the past year, the stations comprised the following, viz.,—Fifty-three reporting and twenty-four bulletin. A new reporting station at Douglastown was established to take the place of Gaspé. The latter place is still retained as a bulletin station. New reporters were appointed to Salmon River, Isaac's Harbour, and Campobello.

The following is a summary received from the various stations showing the

result of fishing operations for the season of 1899.

T. O'BRIEN, Clerk in charge.

CANSO.

Report from A. N. Whitman & Sons, Canso, N.S.:

Codfish.—The inshore catch of codfish for 1899 has been no improvement on previous years. As we have before remarked, the inshore fishery seems to be steadily, though slowly declining This may be due to the increased traffic around our coast; to the disturbing of the water by the thousands of lobster traps and lobster boats in the early part of the season; or to other causes. The bank fishery has been somewhat of an improvement on last year, the most of the vessels having carried home good trips of fish, due perhaps to some extent to bait having been more plentiful on the fishing grounds. There seems to be no diminution of the number of codfish on the outside grounds, and the supply is no doubt practically inexhaustible. The early spring trip was made by a larger number of vessels, though with little profit, the main object in the early start apparently being to make sure of a crew. Canso continues to command a large share of the business of supplying the banking fleet. No place in North America combines so many advantages for the carrying on of the fishing business. The prices of codfish this autumn have shown a sharp decline and there seems no reasonable prospect of a rally, and as a large addition of first-class vessels will be made to the banking fleet in the coming spring, it looks as though low prices would probably rule next year, if the average catch should be maintained.

Haddock.—The haddock fishery of this port is of growing importance. Three firms here are now engaged in the production of finnan haddies, and it gives promise of becoming an important industry. The catch of the fall of 1898 and the winter of 1899, was a fair one and prices were fairly maintained. None were taken in the traps this year. The summer catch was about the average. One firm here ships a carload of fish, weekly, to Montreal and a large proportion of its contents are haddock. It is observed that an increasing number of people are learning the value of haddock as a food fish, as compared with other kind of fish, and this once rather despised fish is coming to the front.

Hake.—There fish are not abundant here at any time. The catch has been as usual and prices have been well sustained.

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Herring.—The catch has been of the smallest the season through, but there is nothing to indicate that these fish have left us for good. The catch on the coast of Scotland last year was exceptionally large, this year it has been exceptionally small. So far as Canada is concerned the demand for salt herring is decreasing yearly, other fish and other food taking its place. There has been no special advance in price because of the scarcity.

Lobsters.—The lobster catch in this vicinity showed no special falling off this year, and a sharp advance in the price to the fishermen made the lobster season a profitable one for them. The keen competition between packers has got the business to a point where it has ceased to be profitable, and nothing but the high prices paid for the canned goods has saved them from serious loss. Take the business as a whole it has been operated this year without profit, and it will soon be a case of the survival of the fittest.

Mackerel.—As with herring so with mackerel. The mackerel catch the whole season has been a failure. Fishermen are of the opinion that there will be no marked improvement in the mackerel fishery until an entirely new school comes on the coast. There are not wanting signs of the coming of such a school.

Squid.—The catch of these valuable bait fishes inshore this year has not been large, but on the banks they have been plentiful, especially during the latter part of the season. A marked feature of the business this year has been the small quantity taken by the traps. What have been taken have been secured by means of the jig. The importance of laying in a stock of bait by freezing is becoming more clearly understood every year. The discussion of the subject by Dr. Kendall, M.P.P., of Sydney, both in the Legislature and out of it, has given added emphasis to it, and his scheme of a system of Government aided cold storage houses has received a good deal of attention. Whether it can be worked or not remains to be seen, but there is no doubt that the discussion will have done good in stimulating private enterprise in this direction. We are pleased to be able to add, that the cold storage of bait has been in successful operation here for ten years or more, putting us well in the front of improvement in this particular. From a thousand to fifteen hundred barrels of squid are now in cold storage here and in this vicinity, and this will be ample for local requirements for the remainder of the season.

CLARK'S HARBOUR,

Reporter, Mr. J. Lewis Nickerson:

Codfish were first reported May 9, in fair quantities, and continued so during the balance of the season. Our reporter says, 'Cod is plentiful, but could not be caught for want of bait.' The number of quintals shipped during the season was 4.500.

Haddock first appeared May 11, and varied from fair to poor the whole season. 1,300 quintals were shipped during the season.

Herring appeared on the 5th of August, and disappeared about the 25th, with the result that the total catch for the whole season was estimated at 400 barrels.

Lobsters were first reported on the 1st of January. The catch was very good, and continued so during the remainder of the month. From the 1st of February until the close of the season, the catches gradually decreased. On the whole a fair quantity was realized. Appended is the statement of the number of cases canned:—

| | Cases. |
|------------------------|--------|
| M. G. Nickerson | 700 |
| Cape Island Packing Co | 800 |
| Jas. McGrath | 550 |
| • | |
| | 2,050 |

The number of crates of live lobsters shipped during the season was 4,256.

Mackerel first appeared on the 18th of May. The catch was much below the average. The total number of barrels in traps as below:—

| Green Island trap | 160 |
|-------------------|-------|
| | 2,081 |

The fishing throughout the whole season was greatly handicapped on account of searcity of bait.

DIGBY.

Reporter, Mr. J. M. Veits:

Codfish was first reported May 2, and scarce. With the exception of a few days in June, when the catches were fair, the season's catch was light. Dog-fish were very troublesome during July and August. Numerous storms also contributed towards making the catch a light one. Total catch estimated at 359,000 lbs.

Haddock fishing commenced on May 2, and the catches were poor during the balance of the month. In June the catch varied from fair to poor and continued so to end of the season. The haddock fishing has been practically a failure, the total catch being 362,000 lbs., less than one-third of last year's catch. Enough are taken to supply the finnan-haddie business.

Hake this season was exceptionally good. Reported May 9 in small quantities to end of month. From June 13 to the end of the season hake was plentiful. Season's cost has estimated at 2.270,000 lbs.

catch estimated at 2,270,000 lbs.

Halibut fishing, as far as this centre is concerned, is small. Digby vessels take their catches to Yarmouth, and sell there for American markets, therefore the total catch for this station, is for those vessels that come here at the end of the season.

7,150 lbs. being reported by these vessels.

Herring fishery has been much better this season than for many years past. First reported May 9 and varied from fair to good during the month. June catch was not as good as the preceding month. Fair catches were made in July, and varied from fair to good in August and September. The catch for the balance of the season was poor. Mr. Viets says, 'The Smith Cove and Little Joggins weirs, once noted for their "Digby Chickens" have taken a much larger quantity, and of better quality, than for many years past. This I cannot help feeling is owing to the scarcity of lobster pots in the vicinity of Digby Gut and in the harbour. Another reason for the failure of the herring fishing here, I cannot but record, in my observations is the awful and unnecessary destruction of the small fry of herring caught in the weirs, and unfit for market, but not allowed to escape. Consequently they are left to rot in weirs, or hauled therefrom and spread on land. Another reason is what is called "Drifting at night" with torches. Yet another reason, and perhaps as fatal, to the increase or even normal standard, is taking them for the sardine factories on the coast of Maine.' Seasons catch 415 brls.

Lobsters were first reported May 2, when a fair catch was made, but the balance of the month was poor. During June the catch varied from fair to poor. The head of the Bay of Fundy is the chief ground for this industry, in this district. The lobster fishing is fast failing. In 1895 it took one pot to do certain work, in 1899 it takes ten pots and men in proportion to do the same work. The catch is kept at its normal status, but at the expense, or rather slaughter of that fishery, by extra force.

Mackerel was reported first on May 30 and was scarce the whole season. The

weir at Joggins had 20 brls. on May 26 and 60 brls. on May 27.

Bait was obtainable at this station and St. Mary's Bay throughout the season Digby fishermen find it hard to obtain bait along the North shore.

ISAAC'S HARBOUR.

Reporter, Mr. Simon M. Giffin:

Codfish.—The fishing at the early part of the season was only fair. Towards the end of August the fishing improved when boats averaged 2 quintals. The fishing for September opened well, cod averaged $\frac{3}{4}$ quintal per man, but a great many days were lost on account of storms. The October watch was fair, being interfered with by dog-fish. Total for Isaac's Harbour was 200 quintals. The total catch for the following places was 500 quintals, Drum Head Seal Harbour, Fisherman's Harbour.

Haddock.—100 quintals were taken during the season.

Halibut was reported only one day during the season, and very scarce.

Herring.—The total catch of spring and fail herring is estimated at 900 brls. Fair catches were made in the early part of the season up to the end of August. The September catch was poor, with the exception of two days, when herring was reported very plentiful. Herring struck in at Carter, 8 miles west of Isaac's Harbour, in large quantities, when ten to fourty barrels were taken to fleet of nets, and continued good until September 22. Nothing was done in October.

Mackerel was very plentiful for the greater part of the season but as they were

very small, the catches were light, on account of their not meshing well.

Pollock.—100 quintals were taken throughout the season.

LIVERPOOL.

Reporter, Mr. J. H. Dunlop:

Alewives first reported May 11, catches being light and irregular to the end of

June. Nothing reported afterwards.

Cod first taken May 19; catches irregular, but fair to end of June. Scarcity of bait interfered greatly. Cod improved in July, being plentiful throughout the month. On the 2nd schooner *Priscilla* arrived with 700 quintals. Catch varied from good to fair for balance of season.

Haddock first reported May 27, catches being very irregular and light to the end of June. Fair and regular catches were made during July, after which haddock

again fell off, light catches being made to end of season.

Herring was not reported until the 1st of July, catches varying from poor to good to 24th, when thirty barrels were taken in drag seine. Storms interfered with fishing during August. Catches were very light in September. Reported schooling off Port Mouton on 18th and 22nd. Nothing was done in October.

Lobsters were first reported May 4, good catches being made until the 22nd, when a storm arrived which destroyed the gear and put an end to the fishing for a

few days. For the balance of the season the lobster fishing was very poor.

Mackerel.—Nothing was done in this branch until July 26 when they were reported fair. On 27 twenty-five barrels of very large mackerel were taken in trap. Twelve barrels were taken 12th of August and four barrels on 18th, which was about all taken during the month. In September mackerel was scarce, some boats getting about twenty large mackerel about every fourth day. On 12th twenty-five barrels were taken in drag net. Very little was done in October.

Squid when reported were fair.

LOCKEPORT.

Reporter, Mr. J. R. Ruggles:

Alewives first appeared May 5, but only in small quantities. Very little was

done in this branch throughout the season.

Codfish.—Nothing was done in this branch until May 27, when good fishing was reported off shore, the small boats returning with very good catches. The June fishing opened fair, and steadily improved to 20th, when cod fishing was reported very good and all the boats doing well. On 15th of July the catch was

already far in excess of last year. For the balance of the season the cod remained very plentiful. In addition to the total catch it is reported that 322 barrels, or 9,660 gallons of cod oil was extracted.

Haddock.—A few haddock were first taken on July 1, but the catch gradually

increased to fair to the end of the season.

Hake.—Although hake was not reported, the total catch shows a slight increase over last year.

Halibut.—The first halibut reported were taken about the middle of July. The fish was very fine, but in small quantities. In August not enough was taken to

supply the local demand. Total catch estimated at 5,000 pounds.

Herring struck in June 21, and craft were able to secure enough for bait, sometimes readily and at others with short delay. During July herring appeared only in small schools, fishermen getting from two to three brls. Herring was reported very plentiful on the 1st and 2nd of August, but were poor for the rest of the month, some getting from ten to fifty and others nothing. Very little was done in this branch in September and October In November herring were reported more plentiful than earlier in the season. The total catch this season is estimated at 1,900 barrels or 380,000 lbs.

Lobsters were first reported on May 1, when 2,000 were taken in this harbour. They continued in fair quantities until the .8th when they fell off and were so scarce that about the 27th a great many of the fishermen were talking of taking up their traps. During May storms destroyed much of the gear, which greatly interfered with this fishery.

In comparison the number of live lobsters exported was far in excess of last year, but a smaller quantity was canned.

CATCH of Fish at Lockeport Station for 1899.

| Name of Vessel. | Catch. | Oil. |
|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| pringwood hree Bells llice M. Buden fary C. llina Helene aurence ligattia atellite celda hly Son | 624,000 447,500 608,000 367,000 361,250 501,500 310,000 435,000 100,000 20,000 21,000 45,900 | Brls. 59 39 57 31 38 40 3 39 |
| rilby dith lews Boy Charlie Richardson Soats from Port Hébert to Blue Island | 25,500 13d,000 86,500 95,000 500,000 4,684,150 | 3 5 |

| Proportion of | Cod | 4,554,616 | lbs. |
|---------------|---------|-----------|------|
| 11 | Haddock | 83,311 | 11 |
| ** | Hake | 41,155 | ** |
| н | Pollock | 5,068 | 11 |
| | Total | 4,684,150 | " |

Lhe

LUNENBURG

Reporter, Mr. W. A. Zwicker:

Cod were first reported May 1, the catch being good, but owing to storms nothing was done from this to 13th. From 14th to 30th the fish was plentiful, boats getting full fares, and bankers reporting cod good. During June the catches varied from very plentiful to fair. In July the fishing fell off slightly, owing to quantities of dogfish. The August fishing was about the same as July, owing to bait being scarce for some little time. Storms and dog-fish interfered somewhat with cod-fishing during the months of September and October, but when fishing was carried on the catches were good to fair. The shore catch was considered the best for years. The Labrador catch was a poor one. Throughout the entire season the fishing was very good at North Bay, Sable Island, Western, Middle, Quero and Grand Banks.

Doglish was not quite as troublesome as in 1898 on the shore fishing grounds,

but bankers found them very troublesome on Middle Bank.

Haddock first reported June 2, when good catches were made up to the 7th. From June 8 until September 4, the catch was fair, but fell off considerably from that until the 15th of October. From that date, until November 15, the haddock fishing was good. On the whole this season's catch was the best for a number of years.

Herring.—The first bank herring was taken May 16 in good quantities, but continued so for three days only, poor catches being made from 20th to 31st. From June 1st to 5th, the catch of herring was fair, but nothing was done, owing to scarcity of bait, from that until 20th. From June 21 to July 19, herring was very plentiful in traps, the catch being sold to bankers for bait. From July 20 to the first weeks in November, the catch was fair. This season's catch was below the average.

Lobsters.—The fishermen at this station commenced fishing in this branch on the 2nd of January, and stopped June 30. The catch for January, February and March was poor, the catch being exported to the United States. The April catch was good, May fair, and June poor. About 25 per cent of the larger ones taken in April and May were exported to the United States, the remainder being sold to

packers. The season's catch was about an average one.

LUNENBURG BANKERS,--(TRAWLERS), LA HAVE.

Lha

| Harold J. Parker | 560,000 | Citizen | 460,000 |
|-------------------|-----------------|-------------------------|---------|
| Carlraine | 560,000 | Majestic | 440,000 |
| Puritan | 300,000 | L. B. Currie | 360,000 |
| Barcelona | 380,000 | Jennie Myrtle | 445,000 |
| Bessie A | 365,000 | Beluga | 350,000 |
| Loreana Maud | 540,000 | Emulator | 353,000 |
| Torradon | 320,000 | Manal M. Parks | 475,000 |
| Grace | 340,000 | Carrie | 470,000 |
| Glyndon | 500,000 | Uruguay | 530,000 |
| Comrade | 370,000 | Collector | 465,000 |
| Alma Nelson | 500,000 | Leopold | 460,000 |
| Millie Mace | 435,000 | Madeira | 525,000 |
| Alberta | 375,000 | Volunteer | 470,000 |
| Joseph McGill | 337,000 | Alaska | 400,000 |
| Minnie J. Hackman | 450,000 | Talmouth | 372,000 |
| | 370,000 | | 475,000 |
| Avis | 190,000 | Carrie | 500,000 |
| Curfew | 160,000 | Roma Jessie L. Smith | 300,000 |
| Perfect | 100,000 | Jessie L. Smith | 300,000 |
| NORTH BAY | AND BA | NKS (HANDLINERS.) | |
| Algoma | 280,000 | Gallant | 300,000 |
| Klondyke | 440,000 | St. Vincent | 300,000 |
| Lillian | 550,000 | Cayuga | 360,000 |
| Loraine C | 265,000 | Rowena | 250,000 |
| Cambrian | 286,000 | Fern | 300,000 |
| Georgina | 70,000 | Mischief | 120,000 |
| Enterprise | 240,000 | Nightingale | 190,000 |
| | 250,000 | D. M. Owen | 240,000 |
| Puma | | | 460,000 |
| Calla Lily | 80,000 | Yosemite | 160,000 |
| Brittania | 260,00 0 | Melbourne | 100,000 |
| | | | |

400,000

Energy

Mildred

SESSIONAL PAPER No. 11a

LABRADOR MEN.

| Grenada. Valiant. Ovando. Mayflower | 90,000 50,000 120,000 70,000 | Abana. Maggie Miletus G. A. Smith | 75,000 50,000 110,000 10,000 |
|----------------------------------------------|---------------------------------------|-----------------------------------|---------------------------------------|
| Garland | 55,000 | Garnet | 120,000 |
| Stella E | 16,000 | | • |

Mackerel.—The first mackerel was reported May 18, one boat getting five. Nothing was reported in this branch until 26th, when boats averaged 100 mackerel. From 25th to 31st, some large mackerel being taken in nets. During June a few large and medium mackerel were taken every day. On July 3, six barrels of small mackerel were taken in traps. Nothing else was done until July 26, when 340 large mackerel were taken in trap. Two barrels were taken on August 5. Very little was done in this line for the balance of the season. This year's catch, on the whole, was not as good as former years.

Squid was plentiful from October 15 to November 10, but very scarce before and after these dates. Bankers report squid plentiful from July 15 to

October 10 on all the banks.

Daisy Linden

Lawrence.....

Snow Queen.....

THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY O

| LUNEN | BURG BA | ANKING FLEET. | |
|------------------------------|--------------------|-------------------------|---------|
| • | Lbs. | | Lbs. |
| O. P. Silver | 340,000 | Harry Smith | 360,000 |
| Dora | 370,000 | Malabar | 430,000 |
| Erminie | 375,000 | Minnie J. Smith | 480,000 |
| Blenheim | 420,000 | Milo | 430,000 |
| Tyler | 330,000 | St. Helena | 420,000 |
| J. C. Schwartz | 380,000 | Olive Louise | 340,000 |
| Lena J. Oxner | 500,000 | Robert F. Mason | 300,000 |
| Athelon | 460,000 | Panama | 440,000 |
| Basil M. Gilbert | 450,000 | Britannia | 410,000 |
| Wisteria | 325,000 | Gleaner | 360,000 |
| Elbro | 290,000 | Renown | 320,000 |
| Atlanta | 490,000 | Nonpareil | 300,000 |
| Lawrence | 370,000 | Luetta | 410,000 |
| Howard Young | 505,000 | Clara E. Mason | 340,000 |
| | 360,000 | J. M. Young | 300,000 |
| Bonanza | | Viking | 390,000 |
| Clarence Smith | 460,000 | Huron | 375,000 |
| Bona Fider | 355,000 | | |
| J. A. Silver | 340,000 | Werra | 360,000 |
| Yucaton | 300,000 | B. G. Anderson | 420,000 |
| Lilla B. Hirtle | 528,000 | Urania | 450,000 |
| Secret | 450,000 | Gladys B. Smith | 520,000 |
| Dictator | 390,000 | Torato | 320,000 |
| E. L. Mauner | 440,000 | Columbia | 380,000 |
| Ontario | 370,000 | Maggie M. W | 420,000 |
| Argosy | 365,000 | St. Clair | 430,000 |
| J. H. Ernst | 400,000 | Muriel | 540,000 |
| L. E. Young | 340,000 | Minto | 540,000 |
| Arcana | 400,000 | Aroostook | 290,000 |
| B. L. Corkum | 32 0,000 | Laura Knock | 370,000 |
| Mascot | 390,000 | Alalia | 140,000 |
| Cordova | 360,000 | Gladys May | 390,000 |
| LUNEN | BURG LA | BRADOR FLEET. | |
| Jennie May | 100,000 | Nicanor | 110,000 |
| | 180,000 | Monarch | 90,000 |
| Sadie | 100,000 | Monarch | 30,000 |
| LUNENI | BURG NO | RTH BAY FLEET. | |
| Maggie E. Z. Minnie B. Smith | 200,000 150,000 | Rapture | 140,000 |
| MAHONE BAY FISH | ING SCH | OONERS AND THEIR CATCH. | |
| Laura C. Zwicker | 360,000 | Unique | 400,000 |
| | | Elva M | 250,000 |
| Genevieve | 440,000 | C. U. Mader | 385,000 |
| Venus | 380,000 | Flo. M. Mader | 420,000 |
| Blanche A. Colp | 410,000 | Total T M | 260,000 |
| Roe | 300,000 | Hattie L. M | 400,000 |

420,000 330,000

275,000

63 VICTORIA, A. 1900

MAHONE BAY LABRADOR FLEET.

| Nova Zembla | | Irene M. B | |
|----------------|--------|-------------|---------|
| Senovar | | D. A. Mader | |
| C. A. Chisholm | 45,000 | Martello | 120,000 |

MUSQUODOBOIT HARBOUR.

Reporter, Mr. George Rowlings:

Alewives were a total failure this year. No reason can be given for this, as there were many places clear of sawdust and other obstructions, which left

a free passage to the lakes.

Cod were first reported May 29, catches being fair until the end of June. Nothing was done during the early part of July, but the catch improved towards the end of the month. Fsh was scarce during the balance of the season, storms greatly interfering with the fishermen. Boat fishermen did more and vessels less than last year. On the whole the season's catch shows a slight improvement over last, but fishermen have to go out between one and two miles offshore, the fish keeping well off.

Haddock first reported June 6, fair catches being made to end of month. The last part of July and first half of August, haddock was plentiful, but catches

gradually fell off towards the end of the season.

Herring reported June 13 in very small quantities during the month, but slightly improved in July. Very little was done in this branch for the balance of

the season. On the whole the catch is much below that of last year.

Lobsters were not so plentiful as last year, there being not more than half the quantity shipped to Boston. A great many of the canners put up large quantities, which they intended to ship, but on account of the low prices in Boston, they did not ship, which makes the season's pack come nearly up to that of last year. About 23 tons were shipped in shell to the United States this season.

Macherel has been a failure. The catches for the last four or five years has

been small, but never so small as this year.

Salmon.—The catch this year was fair.

Trout were fairly plentiful.

Total catch of fish taken in the district, from Dartmouth to Ship Harbour:—

| Alewives | 66 barrels. |
|----------|------------------|
| Cod | 11,365 quintals. |
| Haddock | 1,145 " |
| Halibut | 26,000 pounds. |
| Herring | 2,106 barrels. |
| Lobsters | |
| Mackerel | |
| Pollock | 1.325 quintals. |
| Polloek | 2,360 pounds. |

PORT LA TOUR.

Reporter, Mr. J. W. Taylor:

The catch in general has been largely in advance of last year, although there has been no very large catches in any department, the work has been very regular.

Alewives.—The first good run was reported April 8 from Barrington. Very

little was done at Port La Tour in this department.

Cod.—The season commenced rather dull in this line. The catch during May averaged one quintal per man, but improved towards the end of the month. The fishing was fairly regular in June, and when weather permitted fishermen averaged 1 quintals per day. The July catch varied from fair to poor. Scarcity of bait

greatly interfered with the fishing in August. The early part of September was poor in this branch, but improved towards the end of the month. Schooner Will Carleton arrived from banks on September 9, with 1,300 quintals cod. Fair catches were made in October. The total catch at this station is estimated at 2,000 quintals, about 40 per cent better than last year.

Haddock were first reported July 1 in small quantities, and with the exception of some fair catches, were considered poor, although the total season's catch is

double that of last year.

Herring were first reported June 5 off Cape Negro. The first report from this station was received June 23 when best netter had eighty herring. The July catch was poor. In August herring were very plentiful, but so small that they would not mesh well. On account of scarcity of bait the boats were unable to go out for the greater part of the month. Very little was done in September and a few fair catches were reported in October. The total catch is estimated at 300 barrels.

Lobsters.—The lobster fishery did not employ as many men this year on account of codfish striking in earlier than for several years. Lobsters were first reported May 8, the greater part of which were small. The catch was very poor for the balance of the season, but long before the close season a great many traps were taken up and their owners turned to codfishing. Before the close of the season prices went so high that the fishermen realized more than in former years.

Mackerel.—The mackerel fishing was a failure at this station. The largest catch reported being fifty to a net and that only three times during the entire season.

Squid were poor, and as at other places the fishermen were handicapped on account of scarcity of bait. Clams were, with one or two exceptions, used during the entire season.

PORT MEDWAY.

Reporter, Mr. E. E. Letson

Alewives.-First reported the 2nd of May, the catches being light, but regular

during the month.

Cod.—Good appearance of cod was reported on May 8, but none were taken until 24th, when good catches were made. Storms interfered with the fishermen for the greater part of June. On 24th, the schooner Gladys May arrived with 600 quintals. From 25th to end of month cod was plentiful but would not take clam bait. The July catch was very regular, and the fishermen made good hauls throughout the month. During August the catch was not so regular, but were more plentiful. On 13th schooner Myosotis arrived from Grand Banks with 1,800 quintals. On account of the scarcity of bait, few boats went out in the early part of September. On the 9th fair catches were made and daily improved to the end of the season.

Haddock was not reported until the 20th of June, the catches being light, but regular to the end of July. From the first of August to the end of the season the

catch was about the same as reported for cod.

Herring.—Small herring struck in July 11, in immense schools, but they would not mesh. Attempts were made to stop them with capelin seines, but few were taken. Dog-fish struck in on the 24th. A few large herring were taken on the 28th. The catches for the balance of the season were light, only enough being taken to supply bait for a few days.

Lobsters.—The catches throughout the month of May were very regular and fair. The storm of the 21st destroyed a great quantity of gear. United States schooner Lotaria dragged her anchor and stranded. Light catches were made

during the rest of the season.

Mackerel were only reported three times during the season and then very scarce. Salmon.—During May the catch varied from fair to poor, very little being done in this branch for the remainder of the season.

Squid was scarce all through the fishing season.

PORT MULGRAVE.

Reporter, Mr. David Murray:

The season of 1899 has been the poorest fishing since 1881. No spring mackerel. Not many summer herring, and fall herring has been a failure. Where we used to get 20 barrels to a boat, we have not got one herring. Some took as low as 100 herring all the season, and others got none. 500 barrels herring would cover the catch from Magdalen Islands to St. Peter's Island. On May 10 Captain Harding of the schooner Annie D. reported having sailed through large shoals of mackerel, but no boats in sight.

EAST PUBNICO.

Reporter, Mr. J. A. D'Entremont:

Codfish first reported May 16, fair and continued so up to 20th, when it began to slacken off. From June 5 to July 1, codfish was reported very plentiful. The fish was only fair to 10th of July, but gradually improved week of 18th, afterwards fell back to fair. All the boats were hauled up for the winter on September 12. On the whole the season's catch was a good one, being estimated at 3,045,000 lbs.

Halibut.—The catch was very poor during the season.

Herring.—There was a few herring caught inshore about the last of September, and fair catches were made at Flat and Mud Islands, but the season's catch has been almost a total failure.

Lobsters were reported for the first time May 6. The catch was poor and

remained so during the whole season.

Mackerel.—The first report of mackerel was received May 18, when I00 were taken in nets. Nothing was done from that date until 25th when fair catches were made to 31st. Trap had 15 brls. May 26. From 1st to 23rd June the mackerel fishing was fair. Nothing was done in this branch after that date. The total catch is considered a poor one.

SALMON RIVER.

Reporter, Mr. Thomas O'Leary:

The lobster fishery is about the only one that is carried on to any extent at this station. After it is over the fishermen pursue the hook and line fishing on a small scale, using clams for bait. The lobster fishery has been very good this season at Port Dufferin. The quantity to each boat has not been as large as last year but prices were much better.

There is no net fishing carried on here, except by the light keeper at Beaver

Island, who has taken about 3 barrels during the season.

SAND POINT.

Reporter, Mr. R. R. A. Bolman:

Alewives were taken in light quantities from May 12 to June 1, about one-half of which were used fresh for bait by the shallops. The balance were salted and

smoked for home consumption.

Codfish was fair 10 to 15 miles off shore during May, and improved during the months of June, July, August and the middle of September, when the squid left the grounds. Codfishing was exceedingly poor, all the season, inside of 8 miles from the shore. Dog-fish being very plentiful drove the fish off shore. About three quarters of the boat-fishermen at this port closed up their fish stages and went to the United States. One shallop only fished from this port, hence the total catch of shore cod will not exceed 500 quintals. Mr. Bolman says:—'The exodus of young and middle-aged fishermen from this harbour and headlands to the United States, is three-fold that

known at any time for the past 30 years. Boats can be seen all along the shore

hauled up and housed over, and their owners gone in American vessels.

The Bank Quero fleet have done well with handlines and clam bait. The five vessels composing said fleet returned on their second trips with decks to the water. Total catch 9,500 quintals, with 100 men.

Haddock were poor during the whole season. Total catch 30 quintals.

Herring.—A small school struck in May 29. The latter part of August another school struck in. Total catch, 375 barrels, 300 of which were salted and the balance used fresh for bait. The first school were very small and fat, the last one large and

Lobsters.—Fishing commenced on February 1. The catch was light during the month owing to bad weather. During March the fishing improved both in quantity and quality. The April catch was fair up to the middle of May, when it slacked off rapidly. On May 13 an American lobster smack loaded 9,000 large live lobsters, it being one week's catch from this place. The season's catch was below that of 1898, but prices ranged higher and the net proceeds were better than last year. The catch this season was about one-half large.

Mackerel appeared at intervals during September. The total catch was 12

barrels, all or which were salted for market.

Salmon was first reported on May 19 in fair quantities, and continued so until July 10.

Squid was fair inshore and plentiful offshore all the season up to September.

SPRY BAY.

Reporter, Mr. J. E. Conrad:

Cod.—The first cod were reported on May 12, boats taking from fifty to sixty each, but towards the end of the month the catch fell off, some boats only getting 10. The June and July catch varied from fair to poor, up to July 29 when dog-fish struck in. During the balance of the season the catch, with a few exceptions was middling. As at other places storms and dog-fish greatly interfered with the fishing, the latter being particularly annoying.

Haddock.-Very little was done in this branch throughout the entire season,

boats getting from five to twenty quintals each.

Herring first struck in about May 11, but very few were taken until June 4, when they became plentiful, and remained so for the better part of the month. The catch during the month of July and August was poor. The fishing slightly improved during September. Very little was done in October. The catch on the whole is better than for some years past.

Lobsters were first reported May 2, the catch being poor and continued so for

the entire season.

Mackerel were first reported schooling at Pope's Head. First reported at this station being taken on May 4. Schools were also reported near this place on June 3, but very few were captured. The balance of the season was poor in this branch. Ten barrels represents the entire catch for this station for the season.

Pollock.—Total catch averages one to two quintals to a boat.

Salmon was poor throughout the season.

Squid when reported was poor, although they were very destructive to nets. Squid was used for bait when obtainable, but clams and herring was chiefly used.

WHITEHEAD.

Reporter, Mr. C. C. Feltmate:

Alewives were taken in light catches from May 31 and only lasted a few days. Total catch estimated at 75 barrels.

Codfish were first reported May 25 very plentiful. From June 1 to July 6 the catch was very poor, owing somewhat to bad weather and scarcity of bait. The catch improved about the middle of July, but gradually decreased. The August catch was practically nothing; dogfish, bad weather and scarcity of bait, being the cause. During September the catch varied from fair to poor. 1,300 quintals is the estimated catch for this season.

Haddock was poor during the whole season. First reported May 24. Total

catch 450 quintals, equal to about half of last year's catch.

Herring struck in May 24. The fishing was very poor during the months of May and June. From 1st to 15th July the catch was fair, poor remainder of month. No herring caught during the month of August, owing to bad weather, dog-fish and scarcity of bair. September and October catches were poor. On the whole the total catch shows a slight improvement over last year, 500 barrels being taken this season.

Lobsters were first reported May 2, catches varying from fair to light to the end of the season. Total season's pack estimated at 2,000 cases, about 400 cases less than

last year.

Mackerel were reported schooling on May 25. On 29th of that month 3,000 were taken in trap. The month of June opened with 2,000 mackerel in trap, which were shipped fresh. From that to 19th very few were taken. On 19th, 40 barrels were in trap, which were also shipped fresh. No mackerel were taken during the balance of the season. Total catch 100 barrels.

Pollock were taken in fair quantities off and on during the season, a great many

being taken in traps. Total catch estimated at 300 quintals.

Squid.—With one or two exceptions, bait was very scarce the whole season.

WOOD'S HARBOUR.

Reporter, Mr. W. L. Crowell:

Cod was first reported June 13 and fair catches were made from that date to July 8, after which none was reported. The season's catch was very light owing to the fabormen being upplied to seeme being

fishermen being unable to secure bait.

Herring were taken in light catches the last part of September, but after that never came inshore. There was not enough taken to supply the fishermen with bait. Large quantities were reported schooling outside of the harbour, but nothing was done. The total catch is below that of last year.

Lobsters were taken in fair quantities all through the month of January. Owing to bad weather very little was done in February, but in March some very good catches were made. The best fishing was done from 1st to 15th April after which light catches were made up to the end of the season. The catch is a little below last year's.

Mackerel were first taken about May 10 and fair catches were made to about the middle of June, after which none were captured. The catch was an average one.

Tusket River would be about as follows :-

Salmon, fresh, 11,000 lbs., mostly exported.

Trout. " 8,000 " "
Smelts " 15,000 " "

Frost fish " 10,000 " local use and lobster bait.

Shad " 60 brls., different ways. Eels " 40 " mostly exported.

Alewives " 2,800 " about half salted, balance fresh bait.

Salmon River fisheries :-

Salmon, fresh, 1,000 lbs., mostly exported.
Trout " 1,000 " different ways.
Smelts " 1,500 " about half exported.
Frost fish " 1,200 " local use.
Eels " 20 brls., mostly exported.
Alewives, " 400 " mostly fresh bait.

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Eel Brook River fisheries:

| Alewives, | fresh, | 250 | brls., | mostly fresh bait. |
|-------------|--------|-------|---------|--------------------|
| Eels | "' | 120 | " | local use. |
| Trout | " | 400 | " | different ways. |
| Smelts | " | 1,500 | lbs., e | exported. |
| Silver hake | в " | | | home use. |

YARMOUTH.

Reporter, Mr. F. L. Hatfield:

Alewives were first reported May 1, catches being fair until 31st.

Cod were reported fair on May 12, catches remaining so until 17th when cod became very plentiful for one day only, after which it dropped back to fair. Very little was done in June until 22nd, after which date cod was very plentiful up to the end of the month. With the exception of one day, codfishing was very dull in July. Catches for the balance of the season were very irregular, owing to storms and scarcity of bait.

Haddock was about the same as cod throughout the season.

Halibut.-Fair but irregular catches were made during May and June.

Herring was poor all through the season.

Lobsters were reported May 1 when good catches were made, but decreased during the second week. Fair but irregular fishing was reported to end of month. Very little was for rest of season. During the past season the following quantities of live lobsters have been shipped to the United States from this port:—

| 1899. | Crates. | Value. |
|--------------|---------|------------------|
| January | 2,385 | \$ 34,971 |
| February | 1,176 | 16,793 |
| March | 1,468 | 27 350 |
| April | 4,847 | 64,850 |
| May | 3,301 | 32,131 |
| June | 1,404 | 17,730 |
| July | | 4,852 |
| - | 14,905 | \$198,677 |

The following are the shipments of canned lobsters of 1899 pack:-

| 1899 | Lbs. | Value. |
|-----------|---------|-------------------|
| January | 10,956 | \$ 1,893 |
| February | 24,198 | 4,451 |
| March | 9 900 | 1,640 |
| April | 53,300 | 9,435 |
| Миу | 348,115 | 50,216 |
| June | 156,650 | 23,229 |
| July | | 13,364 |
| August | ~ ~ ~ ~ | 620 |
| September | 1,200 | 300 |
| | 272.122 | |
| | 676,169 | \$ 105,151 |

Mackerel were first taken May 8, one trap having one dozen large fish. During the remainder of the month, the various traps in this district caught from one to one hundred and eighty barrels. The first fish taken by nets were reported on 18th, small catches being made, with exception of 29th to 31st, when mackerel was very plentiful in nets. During June traps varied from one to eighty

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barrels. Net fishing was good early in the month. Traps were taken up on July 1. Salmon when reported were fair.

Shad first reported May 4 in fair quantities, but catches were poor and irregular

during May and June.

Trout were reported during May, fair and good, but very irregular. Nothing afterwards.

WEST ARICHAT.

Reporter, C. P. LeLacheur:

Alewives were again a failure this year, not more than fifty barrels being taken. Cod struck in about the last of May and light catches were made, up to the middle of June, when occasionally fair hauls were made up to the end of the month. During the first part of July the catch was variable, but improved towards end of that month, while the herring were on the coast. The fishing during August and September was poor. Windy weather and scarcity of bait in September and part of October greatly interfered with the work. The total catch this year is considerably below the average. This may be attributed to the unusual scarcity of bait this season. The prices, however, were better than last year, which to a certain extent will make up for shortage of catch.

Haddock were first reported May 30, and small catches were made pretty regularly up to June 25. Very few were taken during the remainder of the season. The catch varies but slightly from last year; this season's catch being smaller than

usual.

Herring were first taken about June 15, when good catches of medium sized fish were made close inshore. Some good hauls of large fat fish were again made from 26th to 28th of that month, the catch ranging from three to five barrels per boat daily. The school then left, and did not appear again until July 18, when for a couple of nights, some of the fishermen did fairly well. From that until the close of the season the fishing was poor. The usual 'August run' did not put in an appearance this year, consequently the total catch is not nearly as large as last year.

Lobsters.—Fishing commenced April 25, and closed about the middle of June. The fishing was poor all through the season. The factory closed on June 24 on account of scarcity of lobsters. The catch is steadily diminishing each year and the indications are that this once valuable industry will soon have passed away. Were it not for the very high prices paid this season, some of the fishermen would have barely paid expenses. The greater portion of the lobsters caught here were

canned.

Mackerel.—A few of these fish made their appearance here 1st of June, but

only a small number were taken. The catch this year was a failure.

Bait.—The fishermen of this place have not got into the way of importing herring for bait, but depend entirely on sculpine and flatfish, caught along the water's edge with spears or fished with hook and line. Therefore, unless the weather is favourable for catching these fish—a calm, clear water being necessary—their traps are sometimes very poorly baited.

ARICHAT.

Reporter, Mr. E. P. Flynn:

Alewives, which some years ago were fairly plentiful seem to have abandoned our shores. Our reporter says:—'This I attribute, in a great measure, to the want of proper protection of the brooks leading into our lakes, where these fish resorted for the purpose of spawning.'

Cod were first taken here May 15, in very light quantities, and of an inferior quality. During the balance of the season the catch varied from fair to poor. The season's catch has been a poor one compared with other years. The prices were

very much higher than they have been for some years past. The short catch can be attributed to stormy weather and scarcity of bait.

Haddock.—The same may be said of haddock as of cod.

Herring first struck in about May 9, but nothing was done during that month. Another school struck these shores on June 20, and fair catches were made. The July catch was very good to the end of month, but gradually fell off. Nothing was done in August, and very little in September and October.

Lobsters.—The first lobsters taken April 14, and only in fair quantities. The factory here continued packing from the beginning of the season, until the last of June, when, owing to the scarcity of fish it closed. The quantity and quality

were about the same as former years.

Mackerel struck in about May 25, but very few were caught. The mackerel fishery was practically a failure. Our reporter attributes the scarcity of this fish of late to the use of purse seines, which in following the mackerel drive them from the coast.

Bait was scarce during the better part of the season.

CHETICAMP.

Reporter, Mr. Chas. E. AuCoin:

The total number of boats registered this year is 21. Two new ones being registered this season.

The fisheries in general, as usual, have been greatly hindered by the inclemency of the weather, and a superabundance of that execrable dog-fish, although the progress is not by far to be complained at, save the mackerel fishery. The latter has entirely failed this year, but no cause whatsoever can be assigned to its failure. It is probable that large schools of whales and sea-hogs, so called, have been detrimental to the success of the fishermen. These have lashed the waters of the Gulf of St. Lawrence, the greater part of the month of June and, no doubt, have caused some havoc among other schools of fish.

Codfish was first reported May 8, and in small quantities, and continued so for the balance of the month. A slight improvement was noticeable during the month of June. The July catch varied from fair to good. During the balance of the season the catch varied from good to poor. A general deterioration is noticeable in the size of cod taken at present. Between 40 and 50 barrels of cod and dog-fish oil has been exported from this station.

Haddock were first reported May 15. The catches throughout the season were

on the whole only fair.

Hake appeared May 19, but with the exception of a few fair catches in September, the season's work was poor. The total catch of cod, haddock and hake was 9,000 quintals. During the last few years hake has gone on a remarkable decline.

Halibut was first reported July 28. The whole season's catch was very small. Herring was first reported May 2. Small thin herring have been captured in nets in the spring as usual; but in no large quantities. The herring, for some unaccountable reason, left these shores and were not reported the balance of the season. The most of the herring landed here comes from the shores of the Magdalen Islands, where a few of the largest boats go in the early spring. The total catch of herring, including what was brought from the Magdalen Islands, was 300 barrels.

Lobsters first report May 1 in fair quantities and varied from that to good during the balance of the season. The lobster catch was quite favourable to the fishermen at this station this year, but the quality of the fish seems to be deepening

into inferiority every year.

Mackerel first appeared on the scene about the July 17, when a few were taken at Pleasant Bay. The quantity captured by each individual boat was small, although the aggregate from the whole fleet would still make up a good figure. Total catch 200 barrels.

Salmon reported first May 8. The capture of salmon has had a poor show this year. Owing to strict regulations by Government in connection with the setting

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of nets, especially in Little River; and the vigilance tendered by the overseer and guardians, against the intrepid means of illegal fishing. Total catch for the season is estimated at 4,000 lbs.

Squid were fairly plentiful during the season.

D'ESCOUSSE.

Reporter, Mr. R. F. Burke:

Codfish.—Nothing was done in this branch on account of stormy weather, until May 24. The catch when reported was very poor and continued so to the end of June, with the exception of a few days at the end of month, when fair catches were made. Nothing was done during the balance of the season. The number of boats engaged in the fishing at this station is 25.

The total catch for the season is as follows:-

| Schooner | Jaquis | 900 | quintals. |
|----------|-------------|-------------|-----------|
| 4.6 | Ginde | 600 | • " |
| " | Victoria | 400 | , " |
| " | Jubilee | 600 | " |
| 44 | Nova Stella | | 66 |
| " | Ariquiba | 5 00 | " |
| | •• | | |
| | • | 3,900 | " |

 $\it Hake$ was first reported May 15 very scarce, and continued so to the end of the season.

Herring struck in May 8, but the catches were very poor during the month, and the first half of June. From the 15th to 30th of that month the fishermen did fairly well. Reported fair for a few days only in July. After that nothing was done.

Lobsters were reported in fair quantities May 3 and continued so for the balance of the season. A great quantity of gear was destroyed by storms in the early part of the year.

Mackerel were not reported until May 24, when some fair catches were made. The early part of June a few good hauls were taken, but nothing was done after that, with the exception of one day in August. The spring catch was better than last year.

GABARUS.

Reporter, Mr. R. McLean:

Caplin was very plentiful throughout the month of June.

Confish.—The early part of May was occupied by the fishermen in getting ready for fishing, and the first report for cod was received May 25, boats averaging one quintal, which were principally caught in deep water. The June and July catch was an improvement on the previous month. Catches varied from two to three and a-half quintals per boat. The fish was very large. The August codfishing was very good, and of fine quality. On 21st boats brought in from 1,600 to 2,100 lbs. each. Cod was reported very plentiful in September and October, boats getting from three to seven quintals of fine large fish. The cod taken were larger and better than any caught for the last 18 years, being all first quality. The total catch this year is estimated at 2 500 quintals.

Haddock.—Fair catches were reported from June 5, and continued so until the middle of August, after which date haddock : ell off considerably. Total catch setimated at 200 cuintels.

estimated at 200 quintals.

Hake were first reported August 11, in small quantities, and light catches

were made off and on during the balance of the season.

Herring first struck in June 9, but only light catches were made for the balance of the month. The first herring were taken in deep water. During the

first two weeks of July only enough herring was taken to supply the fishermen with bait. From the 15th, the catch greatly improved, varying from 600 to 3,000 large fish. Herring fell off considerably in August. Nothing was done in this branch during August and September. None of the fish taken were of second quality, being all merchantable. The catch is considered better than for the last 18 years. Total catch 539 barrels. Herring used for home consumption and bait not included.

Lobsters.—A great deal of injury was done, and a great many days were lost to the fishermen on account of storms, fog and heavy seas. The first lobsters were taken May 9, 500 being captured. Fair catches were made up to the end of the season.

Mackerel.—The first mackerel captured in this district were taken May 25, some boats getting from 50 to 100. On the 29th, the catch averaged two barrels. The catch for the early part of June was fair, but towards the end of the month it gradually dropped off, and nothing was done in this branch for the balance of the season. Large schools of very small mackerel appeared in August, but were only fit for bait. The season's catch is considered a light one, being but 80 barrels.

Squid appeared about June 23. With the exception of a few herring, mackerel and caplin, squid supplied all the bait used at this station. Clams were not

used.

HAWKESBURY.

Reporter, Mr. J. C. Bourinot:

Alewives when reported in May were good at River Inhabitants and Port Malcolm. Very searce in June.

Cod and Haddock fisheries are said to be a failure.

Herring.—Nothing was done in this branch at Hawkesbury, with the exception of one day in July, when herring was plentiful. Were also good at Basin River Inhabitants and Port Malcomn, between 22nd and 27th June.

Lobsters were reported May 8 in fair quantities, but were only taken once during the month at this station. Fair catches were made throughout May at Strait of Canso and Bear Island. Light catches were made at Hawkesbury during

June.

Mackerel reported fair at Port Malcomn and Basin River Inhabitants May 30. Scarce for rest of season.

Pollock were very plentiful for the greater part of the season.

INGONISH.

Reporter, Mr. J. M. Burke:

Cod.—The fishing season opened up about a fortnight earlier than usual this year. Codfish were taken the first week of May, and continued fairly plentiful up to the middle of July. From that to the end of the month fishing was poor. Codfish was plentiful in August, boats getting from one to four quintals. August was the best month of the season in this branch. During the balance of the season, fishing was fair. On the whole, the catch is fully one-half better than for the past three years, prices being from \$1 to \$1.25 per quintal higher, hence the year has been an extraordinary one in this branch of the fisheries.

Haddock were first reported May 13, on trawls in shoal water, and the catch varied from good to poor, for about three weeks, when the school was over. The catch was about the same per boat, but as there were more boats engaged in this branch,

this spring, the general catch was about one third more.

Herring.—The spring run struck in the last week of April, in small quantities and were used entirely for bait for cod and lobster fishing. There was no July or summer herring at this station this season.

Lobsters were taken the last week in April, and a number of factories commenced packing about May 1, all being in operation from the second week in May. The catch was fair during the first five weeks, gradually decreasing towards the end of the season, in fact became so scarce that some packers closed their factories on or about July 15. The season's catch was an average one, good prices being obtained.

Macherel appeared about May 20, but in such small quantities that there was not enough taken to supply bait for codfishing. A few were taken in shore-fast nets

along in July and August. None were taken after September 1.

Salmon were first taken the last week of May. The season's catch was an average one, but some localities did not do so well owing to their position with the prevailing winds. Fair prices were obtained for the early catch, and what could be sold fresh brought fair value throughout the season.

Squid struck in between 1st and 10th July, and remained fairly plentiful, although

irregular at times all the season up to about November 15.

The season has been a very remunerative one to the fishermen and dealers as well, at this station. The increased catch of cod and haddock with increased prices obtained puts the year's work in advance 50 per cent of any season for at least five years past.

L'ARDOISE.

Reporter, Mr. John McIsaac:

Codfish were first reported May 24, but in small quantities, until July 28, when a slight improvement was noticeable. The fishing days being very few, the catch on the whole was poor. The cod taken during the season was taken in deep water. Mr. McIsaac says:—'The cod and haddock fisheries are a thing of the past in this bay, only a few small boats attending to it.' The boats for Scattarie and Lingan have all done well, as also did four small boats at Eastern Bank.

Haddock.—The same could be said of haddock, as for cod. First reported May 24, scarce, and continued so until the close of the season. Haddock was formerly best for the poor classes as it used to be very plentiful and close inshore, but now

very few are taken.

Herring.—The catch of fat herring was very good, both in quantity and quality. First reported May 24, very scarce and remained so until July 1, when it improved. Unfortunately a great many fishermon started for Scattarie too soon, expecting to meet the herring there. They struck in here better than any season for the past ten years. The fishermen who stayed here did exceptionally well.

Lobsters first made their appearence towards the end of April. Reported in fair

Lobsters first made their appearence towards the end of April. Reported in fair catches during the season. On the whole the catch was not as good as last year, but owing to the high prices paid, the fishermen have done very well financially. The

bulk of the catch was sold to factories.

Mackerel struck in as usual not in large quantities. First reported May 27. That and getting good prices brought the average higher than last year. The bulk of the catch prepared for the Halifax market, and the balance sold to bankers.

LOUISBURG.

Reporter, C. V. La Vatte:

Codfish first appeared the last of May, and were plentiful during the entire season. This branch of the fisheries was greatly handicapped by scarcity of bait and dog-fish. The total catch was about 50 per cent better than last year.

Haddock were first reported June 3 and plentiful and varied for that month from good to fair. With the exception of a few days in September nothing more was done

in this line. The season's catch was about double that of last year.

Herring struck in May 1, and were scarce up to end of June. A slight improvement was noticeable in July, but after that the catch was very poor. The season's catch was about 30 per cent below that of other years.

Lobsters were first taken May 19 and continued fair up to the time the season closed. A great number of traps were destroyed by storms, and much time was lost in repairing and replacing them. The season's eatch was considered an average one.

Mackerel first struck in about the last of May. The June fishing was poor. During July Louisburg harbour was alive with small mackerel, smaller than tinkers, and they took hook freely. In August swarms of tinkers struck in and plenty were taken, but they were too small to salt and made fairly good bait. The mackerel voyages were not as good as last year, being only about one-half.

Squid were very scarce in June and July, but plentiful in August, and for the

balance of the season was only obtainable on certain days.

'The dog-fish question,' our reporter says, 'is a very serious one to our fishermen, as they prevent them from catching squid for bait and also hinder the catching of codfish. If out fishermen had cold storage facilities, so that they could take care of bait, days when fish is abundant, the catch would be increased at least 25 per cent. On the whole our fishermen are in a better position this year than they have been for some years past.'

MABOU.

Reporter, Mr. Lewis McKeen:

This year's returns show a marked decrease, probably 50 per cent in the catch of line fish (cod, hake and haddock), compared with the season of 1898.

Alewives reported for a few days only at the latter part of May, but in very

small quantities.

Codfish appeared about May 25. Throughout June and July fresh bait was scarce, and as most of the fishermen were prosecuting the lobster fishery, very little attention was paid to line fishing. During the early part of August catches varied from poor to fair, but improved after the 10th. About September 1 dog-fish struck in and were found very troublesome. A number of the fishermen became discouraged and gave up fishing to work on the railroad. Since November dog-fish have not been so troublesome, but codfish have been scattered over the fishing grounds, consequently the catch has been small.

Herring.—A fair catch of spring herring was made in May. These fish, however, are used chiefly for lobster and cod bait, and are not of much commercial value. The July catch of fat herring was a failure. The scarcity of this fish greatly affected the catch of line fish in this district. The September catch was also much below

the average.

Lobsters appeared about April 29, or immediately after the opening of navigation. Good catches were made during the first week, but at the end of that time a heavy northerly gale drove the ice inshore, and destroyed a large number of traps and herring nets. Throughout May, however, good catches were made. During the remainder of the season the catch was fair. The total pack was estimated in excess of 1898.

Mackerel. - This industry has practically become a thing of the past in this dis-

trict. The very small catch of this season were used for home consumption.

Salmon.—The catch of salmon has been decreasing in this district during the last eight or ten years, until this season it was a complete failure. The few that were taken were disposed of for home consumption.

MARGAREE.

Reporter, Mr. M. A. Dunn;

Alewives.—The catch of these fish this season is almost a total failure. First reported May 10, and few were taken up to June 5. After that date nothing was reported.

Codfish were first reported taken with trawls of May 15, and with hand lines May 20. With trawls fair fishing was reported up to the end of June, but the catches with hand lines during this time was light. The fishing was good during

the months of July and August, particularly the week of August 26 which was considered the best of the season. Cod was reported plentiful during the remainder of the season, but could not be caught, owing to stormy weather, dog-fish and scarcity of bait. The catch for the whole season is estimated to be a little above the average year's catch.

Haddock movements were similar to cod, but catch much less than last year.

Hoke were not reported until July 15 and in very small quantities, and remained scarce throughout the whole season with the exception of a few days towards the close, when fair catches were made.

Herring struck the coast April 28 and good catches were taken for a few days. On May 4 a storm destroyed a great many of the nets, after that the catch was only fair. On July 29 a large school of herring was reported off the coast, but very few were taken on account of the abundance of dog-fish, which prevented the nets from fishing, The first week in August, fishing was fair. During the balance of the season, very little was done. On the whole the season's catch was considered a failure.

Lobsters.—Fishing commenced May 8 and continued good until June 15, when it began to decrease gradually to the end of the season. The catch was considered an

average one.

Salmon.—First taken in river June 1, and outside June 9. The catch continued light until June 15. From that until July 15 the catch was good. For the balance of the season fishing in this branch was light. Total catch was not up to last year.

Squid struck in about July 25, and were the chief source of bait during the

season.

Dog-fish put in an appearance about July 20, and continued almost a constant source of annoyance during the whole of the season. This destructive fish has caused great loss to the fishing industry of this port, and especially in the lines of herring and codfish.

MEAT COVE.

Reporter, Alex. B. McDonald:

Codfish were very plentiful throughout the season, but there being no certain market for cod, not many were taken.

Lobsters.—Fishing was above the average although the season was a little late opening, on account of ice and heavy wind. As there was no gales to damage gear, lobsters were plentiful and of good size.

Mackerel fishing was a failure, only very few catches being made early in the season. Mature fish very scarce, only few being seen schooling. Tinker mackerel

were plentiful, but would not take the hook.

The fishermen here are at a great disadvantage in not having a merchant buying fish, in the community, and having no regular steam communication with the outside world.

The only chance they have of selling their fish, after the middle of August, is the uncertain arrival of a trading schooner.

Net fishing is going out of practice altogether.

The dogfish are so plentiful, that they destroy any nets that are set, hence very few herring are caught.

Squid were plentiful at this station throughout the season.

PETIT-DE-GRAT.

Reporter, Mr. Peter T. Fougère:

Alewives. - None were taken here this season.

Codfish made their appearance about the 18th of May. They were not in large quantities as in former years, but still the catch was about the same as last year. The total catch is estimated at 1,200 cwt. The price has increased \$1 over last year, which is equal to 200 cwt. over last year. In addition to the tota

catch it is reported that 1,700 gallons of oil was extracted from cod, 1,400 of which was shipped to Halifax and the balance kept by the fishermen for their nets and other purposes.

Dog-fish.—This fish made its appearance in July, and has been a source of worry to fishermen throughout the season. The estimated loss caused by them to nets,

&c., is about \$1.000.

Haddock were first taken about May 10. The catch this year is about 1,800 cwt. smaller than last season's. The fishermen assign the cause of the smallness of the catch to easterly winds, and some kind of small bait which took the haddock away with them. The prices were very good here, being \$2.50 to \$3 per cwt.

Herring struck in the 30th of May. The catch was a light one throughout the

Herring struck in the 30th of May. The catch was a light one throughout the whole season. The total catch this year only amounted to 440 barrels, being about 960 barrels less than last season. The fishermen lost much by giving their time to

netting. The price paid was the same as usual, \$3.50.

Lobsters.—This was the very first fish taken in these parts, being captured about 12th of April, very good catches being made up to near the middle of May. From that on the lobsters were very scarce. Some of the fishermen hauled up their traps and got ready for haddock and codfishing, although they would have done much better had they kept at lobstering 1,200 cases were put up by the canneries here, and about 50,000 live lobsters were shipped to Upper Canada and the United States. Although the catch was smaller, better prices were paid, and on the whole the fishermen have done as well as heretofore.

Mackerel.— This fish is evidently a thing of the past in this locality. There were four vessels fitted out here to go mackerel fishing at the Magdalen Islands, two of these did fairly well, the largest sold its catch for \$1,400, and the other for \$800. The other two did nothing. 120 barrels of mackerel was all that was brought into Petit-de-Grat. No fall mackerel were caught here.

Pollock came in at the same time as the haddock. About 300 cwt. were taken.

The price brought was the same as haddock.

Salmon.—This delicious fish came about the 20th of June, but not in such large quantities as last year. The amount taken was just about enough to supply the demand for fresh salmon. The value of the catch was about \$250 less than last season.

Squid.—The late arrival of squid put the fishermen in this locality back very much for want of bait. Squid has been very poor throughout the season. The first squid were captured about the last of July.

PORT HOOD.

Reporter, Mr. E. D. Tremaine:

Codfish were first caught this season May 16, the catch throughout being light. Dog-fish arrived on the grounds August 31 and interfered with all kinds of fishing during the season.

Haddock were first reported June 5 in fair quantities, and continued so until

the arrival of the dog-fish, when the catches were very poor.

Hake fishing was also practically ruined by dog-fish. Hake was first taken June 19. Up to the arrival of dog-fish the catch was fair, afterwards this branch of the fishing industry was almost abandoned.

Herring were first reported May 2 in fair quantities, and continued so during the remainder of the month. During June, July and August the catch was poor. From 1st to 14th September the catch gradually improved. Reported very plentiful on 14th. Remainder of month and October few were taken. On account of dog-fish many fishermen did not set their nets, not caring to have them cut to pieces.

Lobsters were first taken last week in April, in large quantities until May 6 when much of the gear was destroyed by storms. Afterwards, however, the catch

improved, and upon the whole a good season's work was done.

Mackerel fishing was poor the whole season. First reported July 13; 75 barrels of good quality mackerel represent the total catch.

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Squid was fairly plentiful during the season, with two or three very large runs.

ST. ANN'S.

Reporter, Mr. Thos. D. Morrison:

Cod first reported May 13 the catch varying from good to poor during the month.

For the balance of the season, cod was regularly poor.

Herring reported May 9 in fair quantities. The fishing in this branch was very poor for the rest of season.

Mackerel.—Practically nothing done in this line.

Salmon first reported May 30. From that date until July 5 the catches were

fair. Nothing was done afterwards.

Squid were reported very plentiful between 11th and 20th July, boats jigging from six to eight barrels per day. Several bankers baited here this season.

ST. PETER'S.

Reporter, H. D. Urquhart:

Alewives were very scarce. About the 1st of June a few were caught, the highest catch being not over a barrel.

Codfish and haddock were not caught in this bay this season, but the catches made by vessels from this vicinity on the eastern banks and North Bav were exceptionally good.

Herring.—The first run was about June 1. The catches were good, and the run lasted five days. July 20 saw the second run, and August 13, the third, the fish of the later run being exceptionally large. The highest catch was about 15 barrels.

Lobsters.—This branch of the fishing industry opened about the 20th of April. The May catch was fair, but fell off towards the end of the month. The fishing varied during June from fair to poor, very little was done for the balance of the season. The number of fishermen who follow this branch are increasing every year. That more were canned is no doubt due to this fact, and not to any increase in the fish.

Mackerel made their first appearance May 28, the fish being extremely large. The highest catch was 13 barrels. The second run came on the 10th of July, number three, the highest catch being three barrels. Towards the latter part of the month, the bay was alive with small mackerel known as tinkers, the largest being about 10 inches long.

Salmon fishing can hardly be said to be carried on in this bay, the catches made

this season being very light.

PRINCE EDWARD ISLAND.

ALBERTON.

Reporter, Mr. J. P. Brennan:

Alewives were reported but twice during the season, and in very small quantities. Cod.—The codfishing did not start until the 30th of May, owing to ice being still in the bay, and the prevalence of storms. Cod was fair during June at Alberton, and for a few days were reported plentiful at Waterford and Sea Cow Pond. The eatch was good for the early part of July, but slackened considerably towards the end. During the balance of the season fish was very scarce at this station, but reported fair at times at Cape North and Black Marsh. During the storm of September 6, two Caraquet boats were lost at Alberton, seven men being drowned.

Haddock were reported June 13 in fair quantities, but after that date fishing was poor in this branch.

Hake.—The first hake were taken June 21, fair but irregular catches being

made during the season.

Herring struck in on 6th of May, and were reported very plentiful at Alberton and Tignish for two days only, when they fell off, nothing being done in this line from May 31 to August 15, when herring reappeared, but in small quantities. A large number of nets were destroyed by the storm of June 22.

Lobsters were first taken May 6, in large quantities. Plentiful at North Cape and Tignish. No fishing was done from 14th to 25th May. The catch for June opened with lobsters reported very plentiful, but the catch greatly fell off during the month. For the balance of the season the catch varied from fair to poor.

Mackerel not reported until June 19, poor catches being made throughout

the entire season.

BLOOMFIELD OR MIMINEGASH.

Reporter Mr. John Doyle:

Codfish.—On account of the ice not leaving the coast, the first report was received May 26. Fair catches were made during slay and June. The fishing gradually decreased in July. Nothing was done in this branch during the month of August and the first three weeks of September. The balance of the season's catch was fair. On account of the scarcity of bait, the catch was about the same as last year.

Hake struck in on July 8 and fair catches were made up to the last week in September, after which the fishing fell off. Nothing was done in October. The total

catch for the season was equal to last year.

Herring struck in May 12, and were reported plentiful from Cape Wolfe to Cape Gage. They only remained for about seven days during the month. No other school was seen for the balance of the season. There was not enough herring taken for bait.

Lobsters were reported May 11 which was later than usual. The catch was from fair to poor until the 20th, after which they fell off and only a few fair catches

were made during the balance of the season.

Mackerel was first reported May 20. Fishing with hook and line may be called a failure. A few mackerel were taken in nets throughout the season, but in very small quantities. There was not a school of mackerel seen on this part of the coast at any time during the season.

Fish of all kinds being in great demand, fishermen say they have done as well

this season as they have done for the last few.

GEORGETOWN,

Reporter, Mr. Charles Owen:

Codfish first reported May 19 in small quantities, but gradually improved towards the end of the month. Fair catches were made during June. The July catch at this station was poor. Cod reported very plentiful on 3rd, S.E. of Boughtor. Island, and on 22nd, off Murray Harbour. The catch for August and September was fair. October poor.

Hake has been plentiful throughout the season, and good catches have been made on the fishing banks extending from Pictou Island to East Point. First

reported June 19.

Herring made their appearance April 12, when only a few were netted. On the 24th, one barrel per net was caught. From 1st to 30th May there was a large body in this vicinity, and during that month a number of bankers were supplied with bait, also a quantity secured by lobster fishermen for their traps. A large quantity was caught and loaded on small schooners in bulk, these cargoes being disposed of to the several lobster factories along the coast. On or about June 1, the school moved out of the bays and rivers, and small catches were made some distance off

shore. During September herring was netted off Pictou Island, and also from Wood Island to Cape Bear. In October, fair catches were reported, having been taken off Souris and Grand River.

Lobster fishing commenced on or about April 20, and fair to good catches were made up to May 15; from that to June 15 this branch slackened off so much, that the fishermen moved their traps into shallow water, where an improvement in the catch was observed for some days. During the balance of the season the catch per boat was poor. Owing to the advance in value of lobsters, the amount realized is equal to that of former years.

Mackerel fishing in this vicinity has been a failure this year. Very few have been taken by hook, and the quantity collected from all sources would not exceed

100 barrels.

Squid with one or two exceptions was fair. Bait could be obtained at Cardigan Bay and Panmuir Island during the early part of the season.

MALPEQUE.

Reporter, Mr. Jas. McNutt:

Cod were first reported May 25 in fair quantities. During the remainder of the season the catch varied from fair to good. This branch was greatly interfered with by stormy weather.

Herring first struck in May 6, and fair catches were made to 20th, after which very little was reported in this branch. Enough was taken during the season to supply the fishermen with bait and for home consumption. One schooler load was

sold for bait elsewhere.

Lobster fishing commenced about the 10th of May, and with a few exceptions was reported poor up to 20th when a very severe north-east storm destroyed a great deal of gear, principally those in shallow water. The catch in June varied from fair to poor, and, as in May much gear was destroyed by the storm of June 22. The catch was poor for the balance of the season. The total catch is rated considerably below that of last year, but the prices being higher compensated somewhat for the small quantity.

Mackerel fishing was an entire failure at this station, so far as hooking is concerned. First reported July 6 in poor quantities and continued so for the balance of the season. Some nets were set along the shore, but very few mackerel were taken. The fishermen at this station contend that netting is the great cause of the

failure of the mackerel fishery in this district.

NEW BRUNSWICK.

CAMPOBELLO.

Reporter, Mr. Luke Byron:

The catch of all kinds of fish at this station during the season has been fair. At first the fish was very plentiful, and close inshore. The catch was good of almost all kinds of fish, such as cod, hake, haddock, halibut, pollock and herring. Towards the end of the season the fish moved out into deep water, and the catch gradually diminished. All the fish taken here was of a superior quality, especially the herring, which was too large for canning purposes, and as a consequence several factories had to close down. The general opinion is that the sardine business must necessarily reduce the quantity of herring in this locality, if the demand for sardines continues, as the herring are getting scarcer every year.

ESCUMINAC.

Reporter, Mr. J. J. Keary:

Cod was first reported June 5 in fair quantities, and gradually improved towards the end of the month. For the balance of the season the catch was fair and regular.

Herring struck in May 8 in large schools, and remained very plentiful up to

13th when they left the shore. The season's catch is considered fair.

Lobsters were first taken on May 2 in fair quantities. The catches for the

remainder of the season were very poor.

Mackerel.—The catch of mackerel this season was a very poor one. First reported June 24. Drift and set nets were used, nothing being done with hook. Our reporter says :- 'That drift nets keep the mackerel out in deep water, thereby hurting hooking.'

Salmon were first reported May 19, from which date, with one or two excep-

tions, catches were very light.

Shad were first reported May 25 in fair quantities, and remained so to the middle of June, after which date nothing was done in this branch.

GRAND MANAN.

Reporter, Mr. Charles Dixon:

Codfish were not reported until May 17, and the catch to the end of the month was very good. Codfish gradually fell off during June, and with one or two exceptions little or nothing was done in this branch for the remainder of the season. The total catch will not exceed 500 quintals.

Haddock was reported May 17, but not in as large quantities as cod. Very plentiful for the greater part of June, boats getting from 5 to 10 quintals and vessels about 18 quintals daily. The eatch varied from very good to poor from July 1 to August 8. Nothing much was done in this branch during the balance of the season.

Total catch estimated at 500 quintals.

Hake was first reported on May 18, and the catches throughout the balance of the month were good. Hake was very plentiful at Long Island Bay, all the boats and vessels doing extra well during June. The catch of July was a good one, but fishing was not as steady. Dog-fish made their appearance about the 22nd and greatly bothered the fishermen. Fishing was good the first part of August, but nothing was done in this branch from the 8th to 25th of this month. Hake remained fair for the balance of the season. Hake was reported good during the fishing season from the various places in this district. 4,000 quintals is the total catch. 350 brls. fish oil have been put up at this station.

Halibut appeared May 23, and the catch was a poor one.

Herring were first reported on May 17, but very few were taken. Nothing was done in June. Some were taken in weirs and nets during July, but just about enough to supply bait. Reported fairly good the first and last part of August, boats getting from 2 to 8 brls. per day, and the weirs at Seal Cove and Long Island doing well, Herring were plentiful in all weirs in the island during September. Good netting was reported from Cheneys Island, South Head and Whale Cove, small schooners getting from 25 to 50 barrels per week. Nothing was done in October. About 6,000 half barrels of herring have been put by up the fi-hermen at this station, and 1,000,000 boxes smoked. The canning factory at North Head put up 1,700 cases of kippered herring, this year. 14,500 brls. small herring were sent to Portland and Lubec for the sardine factories.

Lobsters were reported May 17 owing to storms which destroyed a great quantity of gear. The fishing throughout the season was good. The factory at Grand Harbour canned 205,600 lbs. this season. About 3,000 cwt. fresh lobsters were exported to the United States.

Pollock.—4,500 quintals was the total catch for this station, the largest part of

which were taken in the weirs.

Bait.—The first bait used was gaspereaux, obtained at St. John, N.B., during May and June. Herring was used for the balance of the season.

SHIPPIGAN.

Reporter, Mrs. A. Hammon:

Cod.—Owing to moving ice, boats were unable to start fishing before the end of May. The fishing at first was good to fair, but on account of the blustery weather the boats could not stay out. Towards the fall schooners made immense catches. The total catch was the best for years. The prices being maintained made it a prosperous year for the fishermen in this district. The total catch is estimated at 20,000 quintals, which was dried and shipped in bulk to ports in the Mediterranean, casked for West Indies and Brazil, and a great quantity shipped to local markets.

Herring.—None reported.

Lobsters.—This season's catch was considered fair. First reported May 17. The average eatch per boat was about 450. About 7,000 cases were packed on Miscou and these shores this season. Good prices were realized.

Mackerel this year is a failure.

Salmon were very scarce. June was the only month that salmon was reported, but only for a few days, and in fair quantities.

PROVINCE OF QUEBEC.

DOUGLASTOWN.

Reporter. Mr. Chas. Viet:

Cod.—The catch of cod varied throughout the season from fair to poor. Storms greatly interfered with the fishing in this district.

Herring when reported from this station was poor.

Mackerel was not reported.

Squid was obtainable throughout the greater part of the fishing season. On the whole the catch of nearly all kinds of fish was fair.

GRAND RIVER.

Reporter, Mrs. John Carbery:

Capelin was very plentiful, but for a few days only.

Codfish first reported May 24 in fair quantities, and varied from that to poor during the months of June and July. From August 1 to September 15 dog-fish became so numerous and destructive that little or nothing could be done. This was followed by bad weather which made the fall catch a failure. The bank fishermen did fairly well.

Herring first struck in May 1, in very large schools and continued so, with a few exceptions, during the remainder of the month. During June the catch was poor. July and August varied from good to fair. Little fishing was done during the month of September, on account of the abundance of dog-fish, which was very destructive to nets and trawls. From 1st to 10th of October, storms stopped fishing, which was fair from 11th to close of season.

Lobsters first reported May 1, of fair size and very plentiful. During June the eatch varied from fair to poor. On the whole the season's eatch was fair.

Mackerel was very scarce all through the season.

Salmon were first reported May 26. The whole season's catch was poor, and the size of the fish small.

Smelt.—The catch this season was very good.

Squid were fair from August 1st to the close of the season.

LONG POINT.

Reporter, Mr. John Vibert:

Cod.—Owing to the number of storms on the coast, cod was not reported until the June 14, and then in very irregular catches. Good catches were made from July 5 to 15. With the exception of one day in August, when cod was reported very plentiful, nothing else was done in this line for the rest of the season.

Launce when reported were very plentiful.

Salmon was only reported three times during the season, when the catches

were good.

Magpie.

Capelin appeared in large quantities on June 2, and remained so for the

remainder of the month.

Cod first reported May 28, the catches varying from fair to good during the month, and reported very plentiful for the early part of July. Nothing was reported afterwards.

Launce when reported were very plentiful.

Salmon were reported plentiful the last part of June.

Moisie River.

Capelin was reported in fair quantities for only a few days.

Codfish was first reported May 30, but the catches, as far as were reported, were poor, until June 26, when fishing was good for a few days. During the balance of the season, the catches varied from fair to poor. Bad weather interfered greatly with the season's work.

NEWPORT POINT.

Reporter, Mrs. Meunier:

Capelin were first reported on May 31; small catches were made during June.

Cod appeared in very light quantities on May 2, but nothing was done for the remainder of the month owing to strong tides and storms. On 25th cod was reported very good on banks, boats getting from 10 to 25 drafts, The fishing during June was only fair owing to scarcity of bait, and storms. A slight improvement was noticeable in July. For the balance of the season the fishing continued fair. Fishing was reported fairly good on banks throughout the season. The total catch for this station is estimated at 11,000 quintals.

Herring struck in about May 1, and in large quantities, and excellent catches were made for the balance of the month. Throughout June and July the catch was fair

but very irregular. This season's catch is 8,000 barrels.

Lobsters.—The season opened very favourably, and good catches were made up to May 5, after which date the catch kept gradually decreasing, little or nothing being done after June 9. The pack this year is slightly in advance of last, being 640 cases.

Salmon when reported was fair. The total catch is estimated at 3,000 lbs. Squid was used throughout the season. It was scarce in the earlier part, but was more plentiful towards the end of the fishing season.

PASPEBIAC.

Reporter, Miss Ada Beck:

Capelin made their appearance about the June 1, and good catches were made up to the 17th, after which date nothing was reported.

Cod first reported May 2, in fair quantities. Nothing was done during the balance of the month owing to heavy winds. For the balance of the season the catches varied from good to poor, but were very irregular owing to scarcity of bait and high winds.

Herring struck in May 5, and good catches were made for the greater part of the month. Nothing was done in June and July. Light but irregular catches were made during the balance of the season.

Squid and all other kinds of bait was scarce throughout the season.

PERCÉ.

Reporter, Mr. E. G. Touzeau :

Cod fishing started May 7, but poor catches being made to the end of the month. A slight improvement was noticeable in June and July. Fair catches were made during the balance of the season. On the whole the season's work was only fair, owing more to the unsettled weather than to the scarcity of fish.

Herring struck in about the 2nd of May, and were plentiful up to the end of the month. June, July and August catches varied from very good to poor, being greatly handicapped by scarcity of bait and storms. Nothing was done in September and October. On the whole the catch is considered fair.

Lobsters were good in the early spring, but very scarce towards the latter part

of the season.

Squid were plentiful up to the end of May, and greatly varied during the balance of the season.

POINT ST. PETER.

Reporter, Mrs. P. Bond:

Codfish were first reported on on May 22, in light quantities until June 1. From that date until 23rd, they varied from fair to good. Throughout July and August catches were fair to poor, owing to the unfavorable weather and scarcity of bait. During October, up to the closing of the season the catches were very good.

Herring struck in on May 17, and continued plentiful until 22nd, when the catches began to decrease until the close of the season. The herring generally were

large and fat.

Lobsters were first reported May 10, and the catches throughout the season were very light.

Mackerel.—There was no mackerel taken in this district this season.

Saimon.—A few light catches were made during June.

Smelt.—Only fair catches were made from 10th to 14th October.

Squid first appeared on July 19, and in small quantities. From August 26 to the end of the season, squid reported very plentiful.

SEVEN ISLANDS.

Reporter, Mr. P. E. Vignault:

Codfish appeared late in June, and in small quantities, but the fishing was fair, when weather permitted, for the balance of the month, but decreased during July and August. September and October fishing was for the most part stopped by stormy weather. On the whole the total catch was considered poor.

Herring were first reported May 16, in small quantities and practically nothing

was done in this branch during the season.

Salmon were first reported May 22 plentiful, and continued so until June 20, after which date light catches were made. The total catch is considered better than last year.

ST. JOHN'S RIVER.

Capetin first reported May 29. During June caplin was very plentiful. Cod were first taken June 14, but in small quantities, plentiful towards the end

of the month.

Launce were very plentiful the latter part of June. Nothing reported afterwards.

Salmon were reported plentiful for the greater part of June.

Trout when reported were plentiful.

SHELDRAKE.

Capelin reported very plentiful for the greater part of June.

Cod.—The catch during the season was very irregular, never being better than fair.

Launce when reported was fair.

Salmon catch was poor.

ANTICOSTI.

Reporter, Miss Grace Pope:

English Bay.

Capelin struck in very plentiful on June 6, and were reported abundant up to the

middle of July.

Cod fishing began May 25, when light to fair catches were made up to the end of June. The July and August catch were generally poor. From the middle of September to the middle of October practically nothing was done in this branch. From October 15 to close of season the fishing was very good.

Herring struck in May 25 in fair quantities and continued so to June 10, when some very good catches were made. From 1st to 15th July herring was reported very plentiful. The balance of the season the fishing varied from fair to poor.

Squid made their appearance August 2 in small quantities, and remained so until middle of October. From that to the end of the season the fishing was very good.

Fox Bay.

Cod.—Very little fishing was done during the summer. Fair catches were made from October 10, but greatly handicapped on account of scarcity of bait. Salt squid being the only thing obtainable.

Herring.-First reported May 19. Very plentiful and continued good for bal-

ance of month and June. After that date catches were only fair.

South-west Point.

Capelin was remarkably good from June 5 up to the middle of July. Immense flocks of gannets reported constantly fishing. Some caplin found in fish, and reported in great abundance fifteen miles from South-west Point as late as August 15.

Cod.—There was no fishing done here in this branch during the season.

Strawberry Cove.

Fishing was practically the same as English Bay. The total catch at English Bay and Strawberry Cove for eleven boats was 105 barrels green fish and 170 quintals dry, to end of September.

MAGDALEN ISLANDS.

Reporter, Mr. J. A. LeBourdais:

Codfish struck inshore May 15 and remained until latter end of June, but only light catches were made on account of the small number of boats engaged in that branch, and bait being scarce. During July and September the catch was fair, but greatly hindered by bad weather. October, was in large quantities, but could not be caught on account of scarcity of bait and bad weather. The fishing boats engaged have done fairly well.

Herring struck in about April 26. First caught in nets and very plentiful. Also plentiful at the north part of the island, before the ice cleared, and continued so until the end of May, when it slackened. Herring seemed to be more abundant at Pleasant Bay than for several years past. Large quantities were taken for bait and local use. A large fleet of Nova Scotia and bank fishermen came to this place for their bait, some of them twice during the month. During the first part of September some few large herring were caught it nets, but none to mention, on account of bad weather.

Lobsters were first reported in the early part of May, prospects being very good and herring plentiful. During the month of June and early part of July the catch was fair, but gradually decreased. The lobsters are as plentiful this year as formerly, but on account of the number of boats engaged the catches were light. During the season the lagoons were literally covered with traps.

Mackerel struck in first week in June in fair quantities, but only light catches were made by netters. Reported taking hook freely July 17, and good catches were made in several of the bays daily until September 1. Very little fishing was done in that month owing to bad weather. Throughout the season mackerel seemed to be in fair quantities but would not take the hook, excepting during the time mentioned. The fishing at By1on was fairly good during August. All fishing, with the exception of herring, was not above the average.

The whole respectfully submitted.

T. O'BRIEN.

SUPPLEMENT

TO THE

THIRTY-SECOND ANNUAL REPORT OF THE DEPARTMENT OF MARINE AND FISHERIES BEING PARTLY FOR THE FISCAL YEAR ENDED JUNE 30, 1899,

AND PARTLY FOR THE CALENDAR YEAR 1899

MARINE

REPORTS

OF THE

HARBOUR COMMISSIONERS

FOR

TORONTO, MONTREAL, QUEBEC, THREE RIVERS, BELLEVILLE, NORTH SYDNEY AND PICTOU

THE PILOTAGE AUTHORITIES

THE HARBOUR AND SHIPPING MASTERS, CERTAIN PORT WARDENS, TOGETHER WITH STATEMENT OF WRECKS AND CASUALTIES

CHIEFLY UP TO THE

31st DAY OF DECEMBER, 1899

PRINTED BY ORDER OF PARLIAMENT



OTTAWA
PRINTED BY S. E. DAWSON, PRINTER TO THE QUEEN'S MOST
EXCELLENT MAJESTY

1900

OTTAWA, December, 1900.

Hon. Sir Louis Henry Davies, K.C.M.G., Minister of Marine and Fisheries.

Sir,—I have the honour to submit herewith the Supplement to the thirty-second Annual Report of the Marine Branch of the Department of Marine and Fisheries, being for the year 1899, containing a statement of merchant shipping, wrecks and casualties, list of certificates granted to masters and mates; the reports of the harbour commissioners of Toronto, Belleville, Montreal, Quebec, Three Rivers and North Sydney; list of harbour masters; reports of harbour masters generally; reports of pilotage commissioners; reports of port wardens, and list of shipping masters.

I have the honour to be, sir,

Your obedient servant,

F. GOURDEAU,

Deputy Minister Marine and Fisheries.

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APPENDIX No. 1

MERCHANT SHIPPING.

The total number of vessels remaining on the register books of the Dominion on December 31, 1899, including old and new vessels, sailing vessels, steamers and barges, was 6,698, measuring 679,352 tons register tonnage, being an increase of 55 vessels and a decrease of 14,430 tons register, as compared with 1898. The number of steamers on the registry books on the same date was 1,974, with a gross tonnage of 277,676 tons. Assuming the average value to be \$30 per ton, the value of the registered tonnage of Canada, on December 31 last, would be \$20,290,560.

The number of new vessels built and registered in the Dominion of Canada during the last year was 277, measuring 21,098 tons register tonnage. Estimating the value of the new tonnage at \$45 per ton, it gives a total value of \$949,410 for new vessels.

A statement follows, showing the number of vessels and number of tons on the register books at the different ports of registry in the Dominion, on December 31 last, along with a comparative statement of the tonnage from 1874 to 1899. A statement is also published of the number of vessels built and registered in the Dominion during the last year, and a comparative statement of the number of new vessels built and registered from 1874 to 1899, both inclusive.

STATEMENT showing the number of Vessels and number of Tons on the Registry Books of the Dominion of Canada, on December 31, 1899.

PROVINCE OF NEW BRUNSWICK.

| Name of Port. | Total Number of Sailing Ships and Steamers. | Number of Steamers. | Gross Tonnage of Steamers, | Total Net Tonnage of Sailing Ships and Steamers. | |
|----------------------------------------------------------------------|---------------------------------------------|--------------------------------|-------------------------------------------------|--------------------------------------------------------------|--|
| Chatham Dorchester Monoton Richibucto Sackville St. Andrews St. John | | Nil. 1 2 3 7 63 | 1,955 Nil. 20 79 65 273 7,451 | 7,808 1,513 2,444 2,737 1,130 2,951 67,705 | |
| Total | 920 | 118 | 9,843 | 86,288 | |

Statement showing the number of Vessels and number of Tons on the Registry Books, &c.—Continued.

PROVINCE OF NOVA SCOTIA.

| Name of Port. | Total Number of Sailing Ships and Steamers. | Number of Steamers. | Gross Tonnage of Steamers. | Total Net Tonnage of Sailing Ships and Steamers. |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Amherst Annapolis Arichat Barrington Canso Digby Guysboro' Halifax Liverpool Lunenburg Maitland Parrsboro' Pictou Port Hawkesbury Port Medway Shelburne Sydney Truro Weymouth Windsor Yarmouth | | 1 1 1 Nil. 57 2 6 Nil. 19 2 1 3 11 Nil. | 32 66 48 Nil. 209 Nil. 7,510 137 423 Nil. 189 1,110 43 138 68 752 Nil. 21 2,738 4,555 | 113 5,518 5,110 1,405 306 8,412 859 23,415 5,307 24,450 14,740 30,469 8,186 2,871 1,541 5,491 6,830 1,546 6,830 3,466 65,024 |
| Total | $\frac{203}{2,121}$ | 150 | 18,039 | 29,784 |
| Amherst (Magdalen Islands). Gaspé Montreal New Carlisle Quebec. Total | 18 32 543 8 774 1,375 | Nil. 1 186 2 135 | Nil. 709 58,601 45 19,180 78,535 | 639 1,858 89,338 196 52,555 144,586 |
| PROVINCE O | F ONTARU | 0. | | |
| Amherstburg. Belleville Bowmanville Brockville Chatham Chippewa Cobourg Collingwood Cornwall Deseronto Dunnville Goderich Hamilton Kingston Lindsay Napanee Oakville Ottawa Owen Sound Peterboro' Picton | 170 Nil. Nil. 2 351 39 Nil. | 17 Nil. 21 18 22 169 3 13 13 1 26 40 77 Nil. Nil. Nil. Nil. Nil. Nil. Nil. Nil. | 28 622 Nil. 475 883 263 23 7,891 198 1,383 87 744 6,054 13,061 Nil. Nil. Nil. Nil. Nil. 15,134 5,765 Nil. | 148 935 609 299 1,518 153 311 5,787 128 1,276 57 1,851 5,115 24,713 Nil. Nil. 126 26,544 4,202 Nil. 2,092 |

STATEMENT showing the number of Vessels and number of Tons on the Registry Books, &c.—Continued.

PROVINCE OF ONTARIO—Concluded.

| Name of Port. | Total Number of Sailing Ships and Steamers. | Number of Steamers. | Gross Tonnage of Steamers. | Total Net Tonnage of Sailing Ships and Steamers. |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Port Arthur Port Burwell Port Colborne Port Colborne Port Hope Port Hope Port Rowan Port Stanley Prescott Sarnia Saugeen Sault Ste. Marie. St. Catharines Toronto Wallaceburg Whitby Windsor Total | 18 6 3 13 56 8 7 40 27 9 26 91 245 30 3 55 | 18 4 2 6 32 3 7 18 20 9 24 51 188 17 Nil. 29 | 3,159 43 92 170 2,706 203 1,164 1,251 7,860 508 1,079 5,860 15,512 1,094 Nil. 7,516 | 2,053 132 321 692 5,500 413 739 7,153 6,375 347 1,017 12,155 14,678 1,245 514 6,036 |
| | l | | 102,011 | 100,251 |
| PROVINCE OF PRINC | E EDWARI | D ISLAND. | 1 | t |
| Charlottetown | 171 | 20 | 3,957 | 14,660 |
| PROVINCE OF BR | ITISH COL | UMBIA. | | |
| New Westminster | 128 112 248 488 | 87 91 136 | 10,801 15,654 29,779 56,234 | 8,098 11,766 24,551 44,415 |
| DDOWNING OF | 3.4.31507 | <u> </u> | 1 | 1 |
| PROVINCE OF | MANITOE | 3A. | | |
| Winnipeg | 126 | 82 | 5,961 | 9,108 |
| YUKON T | ERRITORY. | | | |
| Dawson | 9 | 9 | 2,493 | 1,604 |
| зумх | IARY. | | | |
| New Brunswick Nova Scotia Quebec Ontario P. E. Island British Columbia Manitoba Yukon District Total | 126 9 | 118 150 324 952 20 314 82 9 | 9,843 18,039 78,535 102,614 3,957 56,234 5,961 2,493 | 86,288 243,457 144,586 135,234 14,660 44,415 9,108 1,604 |
| | | | | |

63 VICTORIA, A. 1900

Comparative Statement showing the number of Vessels and number of Tons on from 1874 to 1899,

| | 18 | 374. | 18 | 875. | 18 | 376. | 1877. | | |
|----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------------------|------------------------------------------------------|-----------------------------------------------------------------------|------------------------------------------------------|-----------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------------------------------|--|
| Provinces. | Number of Vessels. | Registered or net Tonnage. | Number of Vessels. | Regis- tered or net Tonnage. | Number of Vessels. | Registered or net Tonnage. | Number of Vessels. | Registered or net Tonnage. | |
| New Brunswick Nova Scotia | 1,144 2,787 1,837 815 312 35 | 294,741 479,669 218,946 113,008 48,388 3,611 | 1,133 2,786 1,831 825 335 40 2 | 307,926 505,144 222,965 114,990 50,677 3,685 178 | 1,154 2,867 1,902 889 338 40 2 | 324,513 529,252 228,502 123,947 50,692 3,809 | 1,133 2,961 1,951 926 342 43 6 | 329,457 541,579 248,399 131,761 55,547 3,479 | |
| Total | 6,930 | 1,158,3 63 | 6,952 | 1,205,565 | 7,192 | 1,260,893 | 7,362 | 1,310,468 | |
| | 1883. | | 1884. | | 18 | 385. | 1886. | | |
| New Brunswick. Nova Scotia Quebec Ontario. Prince Edward Island. British Columbia. Manitoba | 1,107 3,037 1,739 1,133 241 94 24 | 315,906 541,715 216,577 140,972 49,446 9,046 2,778 | 1,096 2,942 1,628 1,184 234 116 55 | 308,132 544,048 202,842 142,387 39,213 11,403 5,722 | 1,060 2,988 1,631 1,223 227 123 63 | 288,589 541,832 203,635 144,487 36,040 11,834 5,439 | 1,042 2,929 1,650 1,248 225 134 65 | 269, 224 526, 921 232, 556 140, 929 30, 658 11, 900 5, 578 | |
| Total | 7,374 | 1,276,440 | 7,254 | 1,253,747 | 7,315 | 1,231,856 | 7,294 | 1,217,766 | |
| | 1. | 892. | 1893. | | 1894. | | 1895. | | |
| New Brunswick. Nova Scotia. Quebec. Ontario. Prince Edward Island. British Columbia. Manitoba Yukon District. | 946 2,731 1,408 1,347 196 298 81 | 181,779 425,690 162,638 141,750 22,706 23,448 6,118 | 1,010 2,715 1,426 1,370 188 315 89 | 396,263 161,121 146,665 20,970 24,900 | 1,003 2,710 1,427 1,480 191 336 98 | 371,432 160,590 | 975 2,683 1,454 1,508 190 346 106 | 122,417 343,356 158,776 148,609 19,323 25,988 7,307 | |
| Total | 7,007 | 964,129 | .7,113 | 812,539 | 7,245 | 869,624 | 7,262 | 825,836 | |

SESSIONAL PAPER No. 11b

the Registry Books of the Dominion of Canada, on December 31, in each year, both inclusive.

| 1878. | | | 1879. | | 1880. | | 881. | : | 1882. |
|---------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------------------|------------------------------------------------------------------------------------|----------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------|------------------------------------------------------------|
| Number of Vessels. | Registered or net Tonnage. | Number of Vessels. | Registered or net Tonnage. | Number of Vessels. | Registered or net Tonnage. | Number of Vessels. | Registered or net Tonnage. | Number of Vessels. | Registered or net Tonnage. |
| 1,142 3,003 1,676 958 322 51 17 | 335,965 553,368 248,349 135,440 54,250 4,482 1,161 | 60 22 | 340,491 552,159 246,025 136,987 49,807 4,701 1,924 | 2,977 1,889 1,042 288 63 21 | 336,976 550,448 233,341 137,481 45,931 5,049 1,992 | 3,025 1,830 1,081 273 74 24 | 139,998 45,410 6,296 2,130 | 2,026 1,754 1,112 248 84 23 | 546,778 215,804 137,061 41,684 7,687 2,783 |
| 7,469 | 1,333,015 | 7,471 | 1,332,094 | 7,377 | 1,311,218 | 7,394 | 1,310,896 | 7,312 | 1,260,777 |
| | 1887. | | 1888. | | 1889. | | 1890. | | 1891. |
| 1,027 2,845 1,586 1,275 225 149 71 7,178 | 255,126 498,878 189,064 139,548 29,031 12,789 5,871 | 2,851 1,498 1,330 218 167 69 | 239,332 485,709 178,520 139,502 26,586 14,249 5,744 1,089,642 | 2,855 1,455 1,352 224 176 77 | 168,500 141,839 25,506 15,241 6,091 | 2,793 1,399 1,312 231 196 79 | 464,194 164,003 138,738 26,080 16,024 6,475 | | 461,758 162,330 138,914 23,316 19,767 6,197 |
| | 1896. | 1897. | | | 1898. | | 1899. | | |
| 964 2,669 1,469 1,525 174 363 115 | 115,506 317,526 158,649 146,522 16,540 26,622 7,934 | 2,204 1,480 1,424 174 364 115 | 103,584 283,056 158,077 135,349 15,812 28,604 7,272 | 2,167 1,378 1,452 178 444 121 | 89,257 262,176 144,447 134,180 15,979 40,304 7,439 | 920 2,121 1,375 1,488 171 488 126 | 86,288 243,457 144,586 135,234 14,660 44,415 9,108 1,604 | | |
| 7,279 | 789, 2 99 | 6,684 | 731,754 | 6,643 | 693,782 | 6,698 | 679,352 | | |

List of Ports at which Vessels may be Registered, showing the number of New Vessels Built and Registered in the Dominion of Canada, during the year ended December 31, 1899.

PROVINCE OF NEW BRUNSWICK. Total Total Net Tonnage Number of of Name of Port. Sailing Sailing Ships Ships and and Steamers. Steamers. 203 Nil. Nil. Nil. Nil. Nil. Dorchester..... Nil. Nil. Nil. Moneton.... Richibucto Sackville. St. Andrew's... 19 543 798 PROVINCE OF NOVA SCOTIA. Nil. Nil. Annapolis 245 Arichat ...
Barrington.
Canso 6 21210 1 33 Digby... Guysboro'... 5 134 Nil. Halifax. Liverpool. Lunenburg... 3ĭ Maitland Parrsboro'. 10 Port Hawkesbury. Port Medway.... Nil. Sydney.
Truro.
Weymouth 476 6 5 Nil. Nil Windsor 4 60 7,594 PROVINCE OF QUEBEC. Amherst (Magdalen Islands)... Gaspé Nil. Nil. Montreal 5,198 New Carlisle.... Quebec..... 14 745 5,943 PROVINCE OF BRITISH COLUMBIA. 715 17 11 Vancouver.... 755 1,264 Victoria.. 2,734 PROVINCE OF MANITOBA. 13 554 Winnipeg

PROVINCE OF ONTARIO. .

| | : <u></u> : | |
|---------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------|
| Name of Port. | Total Number of Sailing Ships and Steamers. | Total Net Tonnage of Sailing Ships and Steamers. |
| | | Nil. |
| Amherstburg. Selleville Sowmanville. Srockville Chatham. Chippewa Cobourg Collingwood Cornwall. | Nil. Nil. Nil. Nil. Nil. Nil. Nil. | Nil. Nil. Nil. Nil. Nil Nil 676 Nil. |
| Deseronto Dunnville | Nil. Nil. | Nil. |
| Goderich. Hamilton. | Nil. 2 9 | Nil. 15 666 |
| Lindsay. Napanee Oakville Ottawa. | Nil. Nil. 18 | Nil. Nil. 799 |
| Owen Sound. Peterboro' Picton. | Nil. 4 | 233 Nil, 374 |
| Port Arthur Port Burwell. Port Colborne Port Dover. Port Hope. | 7 Nil. Nil. Nil. Nil. | Nil. Nil. Nil. Nil. |
| Port Rowan Port Stanley. Prescott Sarnia. Saugeen. | Nil. Nil. Nil. Nil. | Nil. 484 Nil. Nil. |
| Sault Ste. Marie St. Catharines Coronto Wallaceburg Whitby Windsor | Nil. Nil. Nil. Nil. Nil. | Nil. Nil. 107 Nil. Nil. Nil. |
| Total | 52 | 3,419 |
| PROVINCE OF PRINCE EDWARD ISLAND. | | |
| Charlottetown | 3 | 56 |
| YUKON TERRITORY. | <u>'</u> | |
| Dawson | Nil. | Nil. |
| SUMMARY. | | <u>:</u> |
| New Brunswick. Nova Scotia. Quebec Ontario. Prince Edward Island. British Columbia. Manitoba. Yukon District. | . 52 3 51 . 13 | 3,419 56 2,734 554 |
| | Nil. | Nil. |

63 VICTORIA, A. 1900 COMPARATIVE STATEMENT of New Vessels Built and Registered in the Dominion

| | | | 1874. | | 1875. | | 1876. | | 1877. | | 1878. | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------------------------------------|--------------------------|--------------------------------------------------------|------------------------------------|-------------------------------------------------------|------------------------------------|-----------------------------------------------|------------------------------------|------------------------------------------------------|---------------------------------------|------------------------------------------------------------|---------------------------------------|-----------------------------------------------------|
| Provinces. | | Number of Vessels. | Registered or Net | Number of Vessels. | Register- ed or Net Tonnage. | Number of Vessels. | Register- ed or Net Tonnage. | Number of Vessels. | Register- ed or Net Tonnage. | Number of Vessels. | Registered or Net | | | |
| New Brunswick Nova Scotia. Quebec Ontario Prince Edward Island British Columbia Manitoba | | 17 7 5 8 | | | | 42,027 84,480 20,796 10,797 24,634 276 | 53 | 33,483 67,106 22,825 7,760 19,838 | 194 51 47 | 31,040 58,771 17,800 5,397 14,571 121 | 54 219 62 28 62 2 3 | 31,158 47,980 19,253 3,316 17,026 204 48 | 56 166 46 30 38 2 1 | 27,368 49,784 10,870 2,409 10,382 45 |
| Add new vessels buil which proceeded to Kingdom under a Go without being register Add new vessels which for registration in Ger | the verno red h lef | United or's pass t Quebec | 6 | 183,010 7,746 | | 151,012 | 416 3 | | 430 | 118,985 1,943 | 339 1 | 100,873 663 | | |
| Total | | • | 496 | 190,756 | 480 | 151,012 | | | 432 | 120,928 | 340 | 101,536 | | |
| | : | 1886. | 1887. | | 1888. | | 1889. | | 1890. | | 1891. | | | |
| Provinces. | Number of Vessels. | Registered or Net | Number of Vessels. | Registered or Net | Number of Vessels. | Register- ed or Net Tonnage. | Number of Vessels. | Register- ed or Net Tonnage. | Number of Vessels. | Register- ed or Net Tonnage. | Number of Vessels. | Register- ed or Net Tonnage. | | |
| New Brunswick | 34 93 27 52 12 8 | 20,948 2,683 2,075 1,318 154 | 87 28 66 7 9 | 2,909 12,310 2.888 2,993 601 376 439 | 116 23 62 12 18 | 12,965 2,669 5,095 1,412 448 | 126 27 45 12 12 | 19,645 3,759 3,259 1,503 840 | 150 25 41 12 15 | 4,880 4,917 2,008 876 | 130 46 44 5 41 | 35,528 4,200 2,662 1,000 2,364 | | |
| Total | 229 | 32,207 | 224 | 22,516 | 264 | 25,130 | 280 | 34,346 | 285 | 52,378 | 312 | 52,145 | | |

SESSIONAL PAPER No. 11b of Canada, on the 31st December, in each year, from 1874 to 1899, both inclusive.

| 1 | 1879. | | 1880. | | 1881. | | 18 | 82. | | 18 | 383. | | 1884. | | | 188 | 5. |
|---------------------------------------------|------------------------------------------------------------------|----------------------------------------|--------------------------------------------------------|---------------------------------------------|---------------------------------------------------------|----------------------------------|---------------------------------------|-----------------------------------------------|-----------------------------------------------|----------------------------------------------|-------------------------------------------------------|-----------------------------------------------|--------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------|---------------------------------------|--------------------------------------------------------------|
| Number of Vessels. | Register- ed or Net Tonnage. | Number of Vessels. | Register- ed or Net Tonnage. | Number of Vessels. | Register- ed or Net | Tommage. | Number of Vessels. | Register- ed or Net | Tonnage. | Number of Vessels. | Registered or Net | Number of Vessels. | Register- | Tonnage. | Number of Vessels. | Dominton | ed or Net |
| 43 126 29 42 20 5 . 5 | 19,067 39,208 7,421 2,464 5,279 788 74,227 | 126 33 44 21 | 31,25 8,21 3,61 3,35 | 7 150 9 56 0 54 9 15 2 2 0 3 | 1 | 65 73 11 51 85 16 | 66 117 26 55 15 8 1 | 4, 3, 1, | 820 711 785 369 508 631 289 | 72 202 42 34 17 5 2 374 | 21,10 35,76 6,59 4,31 5,34 15 74,09 | 35 17 94 3 11 5 13 2 19 1 25 3 | 8 42 12 3 18 4 11 8 15 3 | 2,888 2,032 3,815 4,446 5,189 675 3,366 2,411 | 34 102 29 45 11 6 13 | | 7,736 24,703 4,556 4,509 1,707 648 320 |
| 265 | 74,227 | 271 | <u> </u> | 1 336 | 74,0 | | 289 | · · · · · · | 029 142 | 374 | 74,09 | | <u> </u> | 2,411 | 240 | 1 | 43,179 |
| Number of Vessels. | Register- ed or Net Tonnage. | Number of Vessels. | Register- ed or Net 'E | Vessels. | | Number of Vessels. | Register. ed or Net | Tonnage. | | Register- ed or Net Tonnage. | - | Register- ed or Net Tonnage. | _ | Register- | Tonnage. | | Register- ed or Net 66 Tonnage. |
| 21 105 34 34 9 46 6 | 1,873 16,446 2,620 3,684 967 2,887 | 119 111 53 49 3 19 8 | 2,819 15,089 4,220 4,126 634 944 608 | 40 128 55 64 3 25 11 | 2,534 8,721 4,412 3,137 183 1,900 356 | 27 89 49 52 1 18 | 4,3 4,3 3,1 | 714 762 335 732 196 709 822 | 24 97 36 38 3 22 7 | 62 7,70 3,96 1,75 11 1,46 | 04 54 59 49 57 50 11 3 56 26 | 1,78 4,28 4,22 3,88 2,42 2,42 | 69 67 17 51 60 46 26 5 | 1: | 790 4,962 4,139 1,872 372 2,228 159 | 31 92 35 52 3 51 13 | 798 7,594 5,943 3,419 56 2,734 554 |
| 25 5 | 28,773 | 362 | 28,440 | 326 | 21,243 | 250 | 16,5 | 270 | 227 | 16,14 | 231 | 17,08 | 278 | 2 | 4,522 | 277 | 21,098 |

APPENDIX No. 2.

REPORT OF THE MONTREAL HARBOUR COMMISSIONERS FOR THE YEAR ENDED DECEMBER 31, 1899.

HARBOUR COMMISSIONERS OF MONTREAL, SECRETARY'S OFFICE.

MONTREAL, July 10, 1900.

JOHN HARDIE, Esq.,
Acting Deputy Minister of Marine and Fisheries,
Ottawa.

Sir,—I have the honour, by direction of the Harbour Commissioners of Montreal, to forward herewith; for the information of the Honourable the Minister of Marine and Fisheries, Summarized Statement of the Operations of the Trust for the year ended December 31, 1899.

The net ordinary revenue was \$296,598.33, against \$296,593.42 of the previous year, maintaining the increase of \$41,176.56 obtained in 1898 over 1897, notwithstanding the decrease in tonnage caused by the withdrawal of vessels for transport service to South Africa.

The revenue from imports increased 13 per cent and that from exports decreased 11 per cent, while local wharfages show an increase of 11 per cent.

The cost of management, maintenance and repairs, apart from expenditure on capital account was \$90,716.25, while the interest and annuity (of \$600) were \$152,953.84. The difference as between ordinary revenue and ordinary expenditure was \$52,928.24,

The amount charged to capital account for the year was \$354,292.60, as against \$119,752.36 in the previous year, towards which the city of Montreal contributes \$82,264.89 on account of work on the guard pier and harbour improvements.

The sum of \$300,000 was received on loan from the Dominion of Canada, under the Act 59 Vic., chap. 10, on account of works of improvement carried out in the years 1898 and 1899.

The Dominion of Canada had still to advance on loan to the Commissioners, for harbour improvements, the sum of \$2,400,000, and the amount still chargeable to the city of Montreal for future work as per contract entered into on September 12, 1899, was \$556,372.33, and for the guard pier construction \$10,978.32.

The total bonded debt at the end of the year was \$3,822,000, on which the average rate of interest is about $3\frac{7}{8}$ per cent.

The usual reports for the past year, of the Harbour Master and the Montreal Decayed Pilots' Fund have already been transmitted to you, while those of the Montreal Pilotage District and the Chief Engineer on the works for the improvement and maintenance of the harbour are transmitted herewith.

I have the honour to be, sir,

Your obedient servant,

DAVID SEATH,

Secretary.

HARBOUR COMMISSIONERS OF MONTREAL.

SUMMARIZED Statement of Operations for the Year ended December 31, 1899.

| BALANCE AND RECEIPTS. | Revenue. | Capital. | DISBURSEMENTS AND BALANCE. | Revenue. | Capital. |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|-------------------------------------------------------------------------------------|
| | e cts. | s cts. | | es cts. | s cts. |
| Balance from 1898 Held for Montreal Decayed Filots Fund, in trust— Harbour debentures and city stock Cash in City and District Savings Bank 2,667 74 53,667 74 | | 6 103 | s and fees es, heating, notarial and o for legal li redit) | 11,957 39 3,845 25 3,846 25 316 05 1,906 54 | |
| Receipts during 1899— Collector of Customs, Montreal— Wharfage dues on imports\$114,585 00 exports\$114,585 00 | 989 GOD R9 | 142,031 02 | Harbour repairs, maintenance of wharfs, &c. (see contra for credit). Annuity. | 113 61 52,325 05 600 00 152,353 84 | |
| Wharfinger local traffic. Wharfage dues not paid at Custom-house in 1897 and 1898 and collected after audit. Rentals of harbour track and properties. For credit of the following accounts— | 31,076 94 31,076 94 47 94 12,318 77 | | tablishing bound and basin—Dred, New approach Vew piers (see contra for credit) | | 26,448 23 |
| Accident account, refund. Printing, stationery, &c., refund. Legal and notarial expenses, refund. Interest charge to city of Montreal. Harbour plant—Sale of old engines. Guard pier construction. City frod protection wall—City frod Montreal's proportion. | 75 00 10 00 18 00 545 16 | 300 00 7,319 37 | Harbour dredging Hochelaga construction Harbour railway Guard pier construction (see contra for credit) Flood protection wall Harbour plant, deduction made for depreciation (see | | 1,354 04 1,354 04 1,354 04 5,847 77 16,580 93 10,355 67 67,644 05 |
| Harbour dredging fleet— Materials sold London Salvage Association, rent, dredges, &c | | 10,355 67 | Real estate No. 2, improvements. Harbour dredging fleet (see contra for credit). Scurity deposits repaid to depositors. Pilotage expenses. Montreal Decayed Pilots Fund— Pensions to old pilots and widows. \$ 5,189 88 Pensions to old pilots and widows. \$ 5,189 88 Audit of fund, poetage stamps, &c. | | |
| Harbour enlargement— Use of diver 6 60 | | | | : | 9, 22, e |

| SESSIONAL | PAPER | No. | 11b |
|-----------|-------|-----|-----|
|-----------|-------|-----|-----|

| E 0 | SIUNA | L PAPEI | A (NO. 11 | b | | |
|-----------------------------------------|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|--------------|
| 243,997 36 | 610,629 77 | | | | 230,588 98 | 841,218 75 . |
| | | , | | | | |
| | | 93 04 | 30,020 97 39,237 83 31,123 43 | \$257,264 10 15 95 81,135 10 | \$176,129 00 t 00 54,469 98 | |
| Disput sements on captus accounts. | Total disbursements Balance, 31st December, 1899— | Cash on hand | Sundry accounts receivable. Value of materials in stock Discount on debentures H. & J | LESS—Interest accrued and coupons outstanding 14,539 15 Sundry accounts unadjusted 6,595 95 on December 31 | Montreal Decayed Pilots' Fund, in trust—Harbour debentures and city stock | |
| 64,599 12 | 7,662 29 300,000 00 1,465 01 Bals | | 296,774 41 | Lings Si | X D | 841,218 75 |
| : | | | | , | | |
| City of Montreal's proportion 64,592 52 | Chart account—Charts sold | Montreal Decayed Pilots' Fund for account of 5 p.c. of all pilotage dues\$3,691 55 Interest on invested funds. | | | | |

Verified as per report of this date.

(Signed) RIDDELL & COMMON, C.A.

Auditors.

DAVID SEATH,
Secretary.

MONTREAL, July 7, 1900.

(True copy.)

REPORT ON THE WORKS FOR THE IMPROVEMENT AND MAINTEN-ANCE OF THE HARBOUR OF MONTREAL, FOR THE YEAR 1899.

JOHN KENNEDY, M. INST. C. E., CHIEF ENGINEER.

HARBOUR COMMISSIONERS OF MONTREAL, CHIEF ENGINEER'S OFFICE, MONTREAL, March 10, 1900.

DAVID SEATH, Esq., Secretary, Harbour Commissioners of Montreal.

DEAR SIR,—I beg to submit, for the information of the Board of Harbour Commissioners, the following report upon the works in the Harbour of Montreal for the year ended December 31, 1899.

NEW WORKS.

The principal new works of the year are: —The completion of the new high level pier in sections 18 and 19; the commencement of construction of another pier in sections 13 and 14, and of the shore wharf between that and the entrance of the Lachine Canal; the enlargement of deep water area in the Windmill Point Basin; and the widening of the ship channel through the harbour from Victoria pier to the entrance of the Lachine Canal.

The principal details are as follows:

Sections 4s to 5s.—A portion of the roadway on the new wharf on the southeast side of the basin was graded and macadamized. About 43,014 cubic yards of earth, ashes and other filling stuff sent in from city excavations, furnaces, &c., were used in extending the wharf embankment at the lower end of the new wharf.

The Dominion Coal Company last spring built, on the wharf leased to them, an elevated coal pocket with machinery for unloading coal from vessels and discharging it into cars or carts. In order to serve the pocket and other parts of the wharf, the Commissioners, at the request of the Grand Trunk Railway, laid down two railway tracks beneath the pocket, one close in rear of it, and one above winter water level at the rear or southeast side of the wharf embankment. All the tracks were connected with those of the Grand Trunk Railway, and are leased to that company on the same conditions as are the other tracks on the wharfs. The aggregate length of the four tracks laid on the Harbour Commissioners' property is 4,939 feet, and upon a strip of property; the ownership of which is in dispute between the Harbour Commissioners and the Grand Trunk Railway Co., 610 feet; total 5,549 feet.

Sections 5 to 10.—The Windmill Point Basin was deepened, chiefly along the south-east side, opposite sections 7 and 10, by blasting and dredging and by dredging alone for the double purpose of enlarging the deep water area of the basin and for furnishing rock filling for the cribwork of the harbour enlargement works. The quantity dredged was 43,758 cubic yards, measured loose, chiefly shale, and trap rock with some hard Of the rock, 14,840 cubic yards, measured solid, was blasted, and the remainder was dredged without blasting. Expenditure on dredging and blasting \$16,666.85. There was also expended on dredging and depositing chargeable to other works where

the material was deposited \$5,042.68.

Entrance to Windmill Basin.—Some blasting and dredging were done for the double purpose of enlarging the entrance channel and for furnishing rock for filling the cribwork of the harbour enlargement works. Quantity of rock blasted, 5,550 cubic yards measured solid; quantity of rock and earth dredged, 5,936 cubic yards measured loose. Expenditure on dredging and blasting \$5,032.63. There was also expended on dredging and depositing chargeable to other works where the material was deposited \$382.97.

Harbour Improvement Works, Sections 12, 13 and 14.—Instructions were given by the Commissioners on September 26, 1899, to proceed with the construction of the shore wharf and pier of plan 12 A 2, in sections 12, 13 and 14. The old wharf between the entrance of the canal and the small basin in section 12, was built in 1859 and founded at 14 feet depth, at low water of 13 feet on the lock sill, or 18 feet higher than the foundation of the new wharf which is to connect with it. In order to protect the old wharf foundation and allow of dredging for the new, a row of close piling was driven around the corner of the old wharf and the heads of the piles tied in by anchor bolts, 50 feet long by $1\frac{1}{2}$ in. diameter. The new foundation was then dredged out and the first crib of the new shore wharf was sunk in place on October 6. Another was sunk soon after and a third on November 22.

In dredging out the foundations for the new cribwork, rock of fairly smooth surface was struck at level 65.50 to 68.50 above harbour datum, or 25' 6" to 28' 6" below lowest water. This rock was dredged off to level 64.50 to 62.50 and the cribs founded upon it. The cribs are each 131 feet in length, making 393 feet aggregate length placed before the close of navigation. All were filled and back filled, and they were partly prepared for receiving the concrete retaining wall which is to be built upon them.

Dredging for the foundations of cribs on the north or down stream side of the new pier in sections 13 and 14 was commenced about the middle of September, and by the end of the month two cribs, 131 feet long each, were sunk at the inshore end. Two more cribs of similar length were sunk in November in continuation of the north side of the pier, making an aggregate of 524 feet placed by the close of navigation. A temporary crib of 80 feet long was also sunk in the same line at the inshore end of the pier to retain the end filling until the shore wharf is built. All the cribwork was built up to about level 103 00 (9 feet above low water) and filled and back filled so as to be above ordinary spring water level and allow of building being continued on the approaching opening of navigation. The cribwork is founded on hard earth bottom at level 62.00 to 63.50 (32'0" to 30'6" below low water of 13 feet on the lock sill) and it is to be continued up to the top of the pier, instead of being stopped at low water and surmounted by a concrete wall as will be done in the shore wharf adjoining.

Six other cribs of 826 feet aggregate length were at the close of the working season under process of construction, afloat, and had built up to heights varying from 6 to 10 feet.

The building of the new pier will entirely close the deep water channel to the part of the harbour above, and a new channel is therefore being dredged through the Island Shoal clear of the site of the pier. By the close of navigation the new channel had been roughly cut through to depths varying from 14 to 28 feet at low water.

The quantities of the principal items of work on the new shore wharf and pier, in

sections 12 to 14, up to the close of navigation are:

Dredging for crib foundations, 34,099 cubic yards; cribwork sunk in place, permanent 917 feet, temporary 80 feet; filling 151,613 cubic yards; cribwork afloat under construction 826 feet.

Expenditure on cribwork \$41,622.39; on dredging and on filling and backfilling of cribwork \$21,806.38; total \$63,488.77.

Harbour Enlargement Works: Sections 17 and 18.—The building of the new pier opposite Jacques Cartier Square, which was commenced in 1898, was resumed last spring and was carried on by day until June 19, and after that by day and night until the virtual completion of the pier in November. Cribwork of a length of 453 feet had been sunk in place at the stoppage of work in 1898; the building of cribs afloat was resumed on April 20, 1899, two cribs of 161 feet each were sunk in place on May 26, and others at intervals until September 9, when the last was sunk, making 1,520 feet sunk in 1899 and 1,973 feet, frontage measurement, in the whole pier. A temporary crib, 60 feet long, was also put down on the down stream side for connecting the inner end of the new cribwork with the old. At the end of August a length of 515 feet of the wharf at the inshore end of the up-stream side had been made ready for use, and on August 31 it was put into service by the berthing of the ss. Roman for dis-

charging and loading. Other parts were afterward made ready for use in succession

until the whole had been put into service before the close of navigation.

The cribwork is founded at level 62 00 to 64 00 above datum, or 30 feet 0 inches to 32 feet 0 inches below low water of 13 feet on the old lock sill; the top of the wharf at its edge, is finished off at level 116.50 and the centre of the pier is rounded up to level 118.50. The cribwork is 42 feet in breadth at the bottom and is stepped in to 14 feet at the top; the outer face is sawn square timber, laid with close joints, and the remainder of round timber; the face timber and the front tie timbers, above ordinary summer water level, are of white pine and all the remainder is of hemlock. The timbers are strongly fastened with $\frac{7}{8}$ inch square drift bolts and the cribwork is assisted in sustaining the earth pressure by $1\frac{1}{2}$ inch anchor bolts, placed about 10 feet apart and 17 feet from the top, and running back into the pier to about 64 feet from the face.

The front compartment of the cribwork is filled with rock to a height of 8 to 12 feet from the bottom, and the remainder with earth dredgings. Of the remainder of the pier, about 90 per cent of the filling is of dredgings, chiefly, of very soft silt, and 10 per cent is of scavengings and stuff of all sorts from the city. Much settlement of the filling of the body of the pier is therefore to be expected and in view of this only a small part of the area of the top has been macadamized, and that only lightly, and the remainder has been covered with shale rock dredgings. It is intended to add rock until the expected settlement ceases, after which the roadways and other parts of the pier not required for buildings, platforms, &c., may be suitably paved. The outer end of the pier has two stairways of 9 feet in width, cut down a depth of 13 feet from the top, for affording convenient access to small craft.

The dimensions of the pier and the quantities of materials in its construction

are:

| Length, up-stream side 850 feet " down-stream side 800 " Breadth, at top 285 to 300 " |
|-------------------------------------------------------------------------------------------------------------------------|
| Height at edges above harbour datum |
| " lowest recorded water 22 feet 4 inches |
| " " highest recorded water during |
| navigation season 6 feet 10 inches |
| Height above crib foundations |
| Wharf frontage |
| Wharf area 244,480 square feet |
| Lumber in cribwork; hemlock, square and round 427,538 lineal feet |
| Lumber in cribwork; pine, square and round102,823 lineal feet |
| Plank; hemlock and spruce 234,475 feet B. M. |
| Iron spikes, anchor bolts, &c 468,300 lbs. |
| Dredging, in preparing crib foundations 80,347 cubic yards |
| Filling, measured in solid 519,000 cubic yards |
| Expenditure in 1898 \$ 40,682 90 |
| " 1899 157,348 98 |
| Total \$198,031 88 |

Island Shoal.—The dredging away of the shoal has been continued throughout the summer for the purpose of providing channel room past the new piers and for furnishing filling required for their construction.

Quantity dredged during the summer 781,514 cubic yards. Expenditure \$72,013.47. Portion charged to works where the material was used, \$68,651.21; charged to Dredge

ing account \$3,362.26.

Section 35.—A piece of siding track, 1,049 feet in length, was laid for connecting the main line on the wharf, used by the Canadian Pacific Railway Company, with a yard for shipping cattle which the company inclosed on the wharf. The track was planked between and on each side of the rails, and was anchored down to blocks buried beneath so as to prevent its being floated or moved by ice in winter. Expenditure, \$1,285.32.

Guard Pier.—The rounding up of the top of the embankment and finishing it to full height was resumed on August 30, at a point 385 feet from the Victoria Bridge, and was carried on to 5,225 feet from the bridge and there stopped at the close of the working season, December 5. The remainder of the pier is accessible to the floating derricks and can therefore be raised without the use of the land derrick and cars.

The quantities and kinds of stuff placed in the pier in 1899 are:

| Cut | oic yards. |
|-------------------------------------------------------------|------------|
| Dredged from Windmill Point Basin and approach, shale, traj | p |
| and hard-pan | 9,642 |
| Dredged from Island Shoal, hard-pan, gravel and sand | 51,727 |
| Dredged from Section 12, hard-pan and rock | 750 |
| Dredged from Section 43, Maisonneuve, stone and sand | 150 |
| Received from steamships, earth, &c | 262 |
| Total cubic yards, scow and box measurement | 62,531 |

The expenditures upon the guard pier to the end of 1899, and the proportion payable by the city, are as follows:

| Expended to end of 1898 \$ 338,919 57 Expended in 1899 16,580 93 | | | |
|------------------------------------------------------------------------------------------|---------|---------|----|
| Total Expenditure to end of 1899 Proportion payable by the city to the end of 1899 | | | |
| Balance being net expenditure on the part of the Harbour Commissioners to end of 1899 | | 274.906 | 82 |

REPAIRS.

The total cost of maintenance and repairs of the harbour works in 1899 is \$52,251.97, and it compares as follows with the expenditure of previous years:—

| 1875 | \$16,499 | 1888 | \$49,520 |
|--------|----------|------|----------|
| 1876 | 35,711 | 1889 | 51,892 |
| 1877 | 26,077 | 1890 | 56,380 |
| 1878 | 18,974 | 1891 | 49,109 |
| 1879 | 18,819 | 1892 | 72,175 |
| 1880 | 17,330 | 1893 | 58,644 |
| 1881 | 16,159 | 1894 | 75,455 |
| 1882 | 27,962 | 1895 | 50,081 |
| 1883 | 35,768 | 1896 | 55,211 |
| 1884., | 44,869 | 1897 | 46,259 |
| 1885 | 42,158 | 1898 | 58,847 |
| 1886 | 64,989 | 1899 | 52,252 |
| 1887 | 64,984 | ĺ | • |

The breaking up and clearing away of the harbour ice occurred at an earlier date in spring than the average. The principal movements of the ice at the breaking up, and a movement which took place in winter, were as follows:

On the night of January 4 and 5, after a thaw, a heavy movement of the ice in the river outside of the Guard Pier and past its lower end, accompanied by a sudden rise of the water, took place and caused a movement of the entire field of ice inside the Guard Pier in an upstream direction through a distance of about 28 feet. The field moved in an unbroken mass and broke a number of electric light posts which had been left standing on the wharfs, and destroyed about 120 feet of the Montreal Warehousing Company's new grain carrier on the upper end of the Wind-

mill Point Basin wharf, by breaking and carrying away the feet of the high tressels on which it was supported and causing it to fall. The steamer Filgate, which was being wintered in the old canal basin, No. 1, was slightly injured by being shoved against the wharf wall, but the Harbour Commissioners' dredging fleet and the steamer Paul Smith, which were being wintered in the harbour just below the canal entrances clear of the wharfs, suffered no damage.

No other movement of ice occurred until the morning of March 16, when a slight shove took place in the main channel near the lower end of the gap, accompanied by a rise of the river from 26 to 29 feet depth on the lock sill. Other movements occurred in the St. Mary's current on April 11 and 13, and opened the central main channel from the Victoria Bridge to the Longueuil Ferry. On the 15th a quantity of ice came down from Laprairie Bay and, passing under the sheet at Hochelaga, caused a rise of the water to 32 feet on the lock sill. On the 16th a quantity of Lake St. Louis ice passed down the Lachine Rapids. On the 17th a movement took place in the Laprairie Bay, and enough ice passed down to completely fill the openings opposite the city and raise the water to 33 feet 8 inches. On the 17th a general movement took place, accompanied by a rise of water to 37 feet 2 inches. Heavy shoves followed on the 18th and 19th, accompanied by rises of water until it reached 38 feet 6 inches on the sill, the height of the top of the revetment wall, and the highest point during spring, at noon of the 19th. After this the ice gradually cleared away and the water fell until on the 24th it was at 26 feet.

Navigation commenced by the running about in the harbour of the Harbour Commissioners' tug, St. Peter, on the 21st. The Richelieu and Ontario Navigation Co.'s ferry boat Longueuil arrived up from Boucherville on the 24th, and the steam barge Victoria from Sorel on the 25th.

The heavy shoving of the ice at the high level of water on the 18th and 19th, caused the lodging of much ice on all the wharfs not protected by the guard pier. The following are the approximate quantities left on the several wharfs at the opening of navigation:—

| · | | DIMEN | sions. | |
|-------------------------------------------------|---------|----------|--------------------------------|------------|
| LOCALITY. \ | Length. | Breadth. | Average Depth. | Quantities |
| | Feet. | Feet. | Feet. | Cub. yds. |
| Sections 16 and 17, opposite St. Gabriel Street | 150 | 25 | 4 | 694 |
| Section 18, opposite Jacques Cartier Square | 70 | 90 | 5 | 1,166 |
| Section 19, Bonsecours Pier | 100 | 95 | 3 | 1,055 |
| Section 20, opposite Bonsecours Market | 150 | 50 | 4 | 1,000 |
| Section 20, opposite Donsecours Market | 90 | 40 | 4 | 533 |
| Section 20, Victoria Pier— | .,, | 40 | * | 933 |
| Upper End, aggregate | 25 | 10 | 21 | 23 |
| | 150 | 100 | 11 | |
| Lower End, aggregate | 950 | 100 | 5 | 6,111 |
| Sections 23 to 27. | 1,030 | 95 | | 17,600 |
| | 300 | | 14 | 50,737 |
| Section 28 | 940 | 15 | 3 | 500 |
| Sections 28 and 29 | | 50 | 6 | 10,444 |
| Sections 29 to 31, small cakes, say. | 1 150 | | · · · · · · · <u>·</u> · · · · | 20 |
| Sections 31 to 33 | 1,150 | 60 | 8 | 20,551 |
| Sections 33 to 35 | 1,400 | 50 | 5 | 13,000 |
| Section 36 | 350 | 160 | 8 | 16,600 |
| Section 37 | 490 | 125 | 4 | 9,074 |
| Section 38 | 450 | 120 | 10 | 20,000 |
| Section 39 | 150 | 100 | 5 | 2,777 |
| Sections 39 and 40 | 400 | 100 | 9 | 13,333 |
| Section 46, outer end of Sugar Refinery Pier | 100 | 15 | 3 | 163 |
| Total quantity cubic yards | | | | 185,492 |

The clearing away of the ice from the sites of the steamship sheds, ferry steamer berths and other places first required for use, was commenced on April 23, and was carried on with gangs of men, horse-scrapers and carts, assisted by two of the floating steam derricks, at such rate as was requisite, and by May 1 the wharfs were practically cleared. The force employed at the beginning was 125 men; by April 23 it had been increased to 350 men; on the 25th it was 700, and from that it was gradually decreased to the completion of the clearing on May 6.

Cost of ice clearing: men's wages and tools, \$6,315.36; derricks' work, \$345;

total \$6,660.36.

The pier in section 43, Hochelaga, was seriously injured by the shoving of the ice and the scour of the water across it. The cribwork was not damaged, but at about one-third of the length of the pier from the inshore end, a channel, of 4 to 10 feet deep and 85 feet wide, was cut across the pier, and macadamizing, earth filling and parts of the railway tracks were carried over into the basin at the down stream side. Nearly the whole of the remaining area of the pier was ploughed across by the ice and much of the macadamizing carried into the basin.

In section 46 the macadamizing of the pier was also badly torn up and parts of it carried over the side, but the cribwork and railway tracks were not injured. The coping and face timber and planking of the wharfs, from section 24 at the Canadian Pacific Railway elevators to section 43, Hochelaga, suffered damage at several places.

The down-stream inner corner of the Victoria Pier, section 19, which is pile work,

was badly damaged.

The following are the principal items of repair work done during 1899:

Section 5, Windmill Point Basin.—Screens of 4-inch plank, held by suitable timbers and tie bolts, were made and placed on the upper part of the mouths of the two raceways discharging into the head of the basin, in order to stop the surface current of the races and allow vessels to lie conveniently alongside the wharf. Cost, \$221.89.

Sections 6 and 7.—Strong board fences were placed along the Commissioners' boundary line across the raceways of the Malleable Iron Co. and Peck, Benny & Co.'s to prevent the possibility of persons falling in. The gratings of all the raceways at the mouths of the culverts under the wharfs were also repaired to prevent bathers from being carried in.

Section 15.—The pile work of the down-stream side of the pier leading out to the Island wharf was repaired by cutting the piles down to the water line and substituting a framing and new top timbers and planking. Area, 20 feet by 60 feet. Cost \$267.61.

A new paved stone foot-way was laid across the Island wharf.

Section 16.—An area of 45 by 25 feet, at the outer angle of the wharf, which had been lifted by the ice, was rebuilt with new top timbers and planking and two new piles.

Section 18.—The front of the cribwork above water, which is badly decayed, was stengthened by upright timbers and anchor bolts of $1\frac{1}{2}$ inches by 32 feet, in order to make it stand until the proposed new wharf is built in front.

Section 19.—A new plank walk of 250 by 23 feet was laid throughout the length

of the pier for the use of the ferry-boat passengers. Cost \$220.10.

Section 20.—The pile work top of the down-stream corner of the Victoria pier, which was badly damaged by last winter's ice shove, was rebuilt with new piles and new top timbers and planking. Area repaired, 3,500 square feet. Cost \$1,034.27.

The pile work along the inner side of the pier was repaired at several places by

cutting and splicing piles and renewing timbers, &c.

A slip of 9 feet wide, 12 feet long and 3 feet deep at lower end, was made in the

outer up-stream face of the pier for giving access to small steamers occupying it.

Sections 22 and 23.—The timber of 450 feet of the upper part of the cribwork wharf, which was built in 1862 and had become badly decayed, was entirely removed to a depth of 4 to 6 feet from the top. An examination of the bottom of the front of the wharf by a diver showed some undermining by the scour of the swift current, and the place was protected from further damage by driving a close row of fourteen piles in front. Cost, \$2,856.79.

Section 24.—The cribwork of the wharf, which is old and was founded at about 16 feet depth at low water of 13 feet on the sill, had become undermined by the current and ships' propellers, and by the deepening of the basins to 27 feet at low water, and had settled down and pitched forward at the top throughout a length of 300 feet. It had already been protected and strengthened by close piling in front and it was, last summer, further secured by anchor bolts, 1½ inches in diameter by 48 feet long, put in at about 12 feet apart. The timber work was also renewed to 3 to 4 feet down and built up to proper height, and the filling and roadway in rear made good. Cost, \$1,232.17.

Section 27.—The top of the wharf, which has been damaged by ice shoves, was repaired by renewing 50 feet in length of the upper two courses of coping timber. The

filling which had gone out of the top of the cribwork was replaced.

Section 28.—Three places in the timber work of the wharf, of an aggregate length of 150 feet, which had been damaged by ice shoves, were repaired by renewing the upper three front courses and coping and the top planking and sleepers. Cost, \$332.47.

Section 29.—Repairs were made to two places of the timber work where damaged

by ice.

Sections 27 to 30.—The face planking, which had been much damaged in places by ice, was renewed or thoroughly repaired over an aggregate length of 1,425 lineal feet of front. The coping was also renewed at several places. Cost, \$199.73.

Sections 30 to 35.—The upper timbers and coping of the cribwork were damaged in many places by the ice. Repairs were made by putting in 756 lineal feet of coping, 225 lineal feet of face timber and renewal of a considerable part of the top planking of 1,500 feet of wharf. Cost, \$529.49.

Section 37.—Subsidence of the wharf filling and timber occurred in different places under the tracks of the coal towers, and repairs were made by wedging up the timbers and replacing the lost filling by broken rock. A careful examination of the front and foundation of the cribwork was made by the Commissioners' diver in December and the whole found in strong, safe condition. About 225 lineal feet of wharf just east of the coal tower tracks was repaired by renewal of the top and face planking and coping. Cost, \$455.88.

Section 43.—The pier, which was seriously damaged by ice and scour, as above described, was repaired by putting about 8,200 cubic yards of earth and rock in the scoured out places; putting down 47 toises of new macadam and levelling and replacing what remained; furnishing rails and ties for 240 feet of railway track; relaying 350 feet more which had been displaced, and securing with anchor bolts the whole 700 feet; putting new top planking on 25 feet of the up-stream outer end and replacing a few face planks which had been torn off. Cost, \$4,233.11.

Section 46.—The macadamizing of the pier, which was somewhat damaged by the

ice, was re-surfaced and repaired.

Sections 74 and 75, Longue Pointe.—The macadamizing of the two wharfs were

re-surfaced and repaired.

General Repairs.—Ordinary general repairs were liberally made wherever needed upon the roadways and timber work of the wharfs, and the whole kept in good condition. The watering and cleaning of the roadways was also efficiently carried out. Macadamizing stone to the extent of 531 toises was used in the maintenance of the roadways, and was distributed as follows:

| | | | | | | • | | | | | | | | | | | | | | | | Toises |
|----------|----|----|----|------------|------|---|--|------|--|--|-----|------|--|----|---------|--|--|--|--|------|--|--------|
| Sections | 5 | to | 10 |) . | | , | | | | | | | | | | | | | | | | 53 |
| Sections | 12 | to | 20 |). | | | | | | | | | | | . : | | | | | | | 974 |
| Sections | | | | | | | | | | | | | | | | | | | | | | |
| Sections | 31 | to | 4(|). | | | | | | | . , | | | ٠. | | | | | | | | 119 |
| Sections | 41 | to | 4 | 7. | | | | | | | | | | | | | | | | | | 91 |
| | | | | | | | | | | | | | | | | | | | | | | |
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Electric Lighting.—Tenders for lighting the wharfs by arch lamps of 9.6 amperes were called for in April last, and a contract given to the Royal Electric Co., the lowest tenderers, for lighting for three years, at 15 cents per lamp per night.

Lighting was commenced on April 26 with three lamps, nine more were added on the following day, and by May, 57 lamps were in operation. The number was gradually increased to 101 lamps on the 15th, to 114 on the 18th and 116 on May 26. On August 11 two lamps were put on the new pier at section 17; on August 25 another was added, and on the completion of the pier in November, five additional lamps were put on, making eight lamps in all on the new pier. Some lamps were removed from the Allans' sheds early in November, and, as the sheds of other companies were taken down, the lamps were removed from them also.

On December 6, the lamps between the Longueuil Ferry and the east end of the harbour were discontinued, and by the 11th the whole of the lighting, with the exception of three lamps at the Longueuil Ferry, had been discontinued. The lights at Longueuil Ferry were kept in operation for the convenience of Longueuil Ferry passengers until December 30, at which date the ferry-boat ceased running and the lights

were discontinued.

The greatest number of lamps in use at one time was 122, and the total lighting for the season was equivalent to 25,635 lamps for one night. The total cost was \$3,845.25

Notes.

Wintering Vessels.—A twin hull cattle boat belonging to Messrs. Gordon, is being wintered in the harbour alongside the Harbour Commissioners' dredging fleet, opposite the entrances of the Lachine Canal and is the only vessel, besides those of the commissioners,' which is taking advantage of the winter harbour.

Grain Conveyor.—Montreal Warehousing Company's high level conveyor on sections 5 and 6, Windmill Point Basin, which was demolished by the ice in January, 1899, was rebuilt on strong supports early in the summer, and was lengthened to reach 500 feet along the basin, so as to load large ships. The extension was made under a new agreement between the Harbour Commissioners and the company, dated June 13, 1899, and the former agreement of June 15, 1898, was annulled.

Coal Pocket.—The Dominion Coal Co., built upon sections 4s and 54, early in summer, an elevated coal pocket of cribwork foundations and steel framing, provided with modern and highly efficient machinery for unloading coal from ships and discharging into carts and railway cars. The pocket is 412 feet by 27 feet and of 50 feet height; the storage capacity is 6,000 tons and the unloading capacity is 1,000 tons per hour.

Cattle Shipping Yard.—The Canadian Pacific Railway Co., inclosed a cattle yard on the wharf on section 32, on space allotted by the Commissioners, for the purpose of receiving cattle from railway cars and sending them to ships by lighters. The yard is 300 feet long by 40 feet wide and is accessible to boats on one side and to cars on the other.

DREDGING PLANT AND DREDGING.

The dredging plant used in 1899 is all owned by the Harbour Commissioners, and consisted of three dipper dredges, five floating derricks, one single land derrick, one drilling and blasting boat, five tug-boats, twenty-one flat deck scows, two hopper bottom scows, a testing boat and a floating shop. Dimensions and other particulars of the different vessels are given in the annexed table.

In addition to the plant which was used, the Commissioners have two dipper dredges which have become unsuited to the present harbour works, and are for sale.

The land derrick was wintered on the guard pier and all the floating plant was wintered in the Windmill Point Basin, opposite sections 6, 7 and 8.

In a movement of the field of ice, which took place on January 4, the floating

plant was moved with it a distance of about 28 feet, but suffered no damage.

The repairs to the hulls and machinery of the dredging fleet were made by the Commissioners' own men, with the exception of foundry work and some heavy machine work and forging, which were done at neighbouring shops, and steel castings, which

were procured partly in Montreal and partly in the United States. The repairs to both dredges and derricks were heavier than usual, mainly for the reason that they were worked both night and day, instead of day only, and that the dredging, where not in rock, was in very tough silt, which required the utmost power of the dredges to break it up.

The following are the principal items of repairs made to the several vessels during

the year :-

Dredge No. 1.—Crank shaft pinion renewed in iron and afterwards in steel; iron intermediate spur wheel replaced by a steel one; six foot sheave under deck renewed twice; two new brackets for holding spud rope sheaves below deck; two new sheaves on top of forward spuds; new friction clutch driver for stern spud drum; bucket handle of wood with steel plating, replaced by a new one wholly of steel; plain grate bars replaced by a set of rocker bars; feed water heater taken out and discarded and exhaust pipe altered; funnel renewed; steel bucket rope renewed twice; one pair of steel swinging table ropes renewed; upper steel spud ropes of both forward spuds renewed; stern spud chain replaced by steel rope; anchor straps of back stays of A frame renewed; planking of top sides of hull renewed; oak covering board renewed; deck partly renewed; hawse pipes of backing chain renewed three times.

Dredge No. 2.—Heater discarded and taken out; exhaust pipe altered; iron pinion on crank shaft replaced by a steel one; iron pinion on intermediate shaft replaced by one of steel; one spur wheel of main drum temporarily repaired where cracked in rim; main drum temporarily repaired; new bushing and key in six-foot sheave under deck; new bush in six-foot sheave at upper end of boom; lower end of boom strengthened with steel plates; back-stay of A frame repaired; steel bucket rope renewed twice; one swinging rope renewed; new hinge for holding forward spud keeper; hawse pipe

for backing chain renewed four times.

Dredge No. 3.—New grates with revolving bars put in boiler in place of ordinary grates; heater discarded and taken out; exhaust pipe altered; main hoisting drum temporarily repaired where cracked; six-foot sheave under deck renewed; one bracket for holding forward spud sheaves under deck replaced by an old spare one, and the other replaced by a new one; bed plate of pivot of foot of boom replaced by a new one; forked pivot casting on top of A frame replaced by a new one; two large bolts renewed in forward spud hinge; chain for hoisting after spud taken out and replaced by a steel rope; steel bucket rope renewed four times; hawse pipe of backing chain renewed six times.

Derrick No. 2.—Put into drydock and caulked; A frame strengthened; clam shell

repaired.

Derrick No. 4.—Phosphor bronze bushes of spud drums renewed; clam shell temporarily fitted with teeth for clearing ice off wharfs in spring; steel main ropes of forward spuds renewed; hoisting rope of clam shell renewed; complete set of spuds put on to replace a set broken by a field of running ice in spring; one spud renewed during summer.

Derrick No. 5.—Bevel wheels of spud gearing renewed by two new ones of iron and one of these afterwards replaced by a steel one; clam shell bucket temporarily fitted with teeth for clearing ice off the wharfs in spring; two spuds renewed.

Derrick No. 6.—Bevel wheel of spud gearing renewed in iron; clam shell tempor-

arily fitted with teeth for clearing ice off wharfs in spring.

Tug Aberdeen.—Piston refitted and ground; a broken set of propeller blades replaced by a new set; new rocker grates put in.

Tug St. Peter.—Boiler repaired with a patch on the front of the furnace and another on the side; new head put on rudder to replace broken one; broken stem

replaced by a new one.

Drill Boat.—New upright boiler of 4 feet diameter by 10 feet high added to replace a former one which had been taken off; funnel of large boiler renewed; one new drill cylinder made; slides of drill frames repaired; put into dry dock and caulked in the corners and sides and in parts of bottom.

Scows.—Flat scow No. 31 was largely rebuilt; the bracing of the hog frames, the deck beams, deck and deck covering were all renewed and other parts were overhauled and repaired where requisite. Fifteen other flat scows were lightly repaired in the fender ribbous, decks, sides and ends.

Dredge Boxes.—About 100 boxes were almost wholly re-built and repairs were made to all others.

Derrick Floats.—The three timber floats used in front of derricks 4, 5 and 6, which had become decayed and much damaged, were replaced by new ones of much stronger build.

Punts.—Twelve punts of 16 to 18 feet long, were built to increase the stock or to replace others worn out or destroyed by accident.

Spares.—The following spare parts were made:

A steel bucket handle (afterwards put on dredge No. 1).

A seven-yard dredge bucket.

Two four-yard clam shells of new pattern.

A propeller 7 feet 10 inches diameter (afterwards put on new tug Robert Mackay).

Three Douglas fir forward spuds for dredges, 36 inches square by 60 feet.

One Douglas fir after spud for dredges, 24 inches square by 60 feet.

Three Douglas fir spuds for derricks, 21 inches square by 66 feet.

The following buckets were repaired for general use:

Two seven-yard dredge buckets had the lips renewed.

Five new doors were fitted to dredge buckets.

Three old clam shells for the large derricks were thoroughly overhauled and repaired.

Dredges 6 and 7 were cared for but not used.

Derrick No. 3, built in 1875.—The wooden hull had become unfit for service by decay and the derrick was therefore dismantled. The machinery was stored at the shipyard on the pier and the hull used as a floating store for the ship carpenters.

Tug M. P. Davis.—The wooden hull, built in 1879, was unfit for longer use and not worth repairing. The machinery and valuables were therefore taken out and the hull abandoned.

NEW PLANT.

In view of the large extent of the harbour works undertaken, the Commissioners ordered the building of the following additional working plant, which was carried out:

Tugboat Robert Mackay, for attending dredges: length between perpendiculars, 71 feet; length all over, 81 feet 9 inches; moulded breadth, 17 feet 6 inches; depth 10 feet; steel hull; mainly according to Lloyd's requirements for highest classification, but in some respects of greater strength, in order to suit it for its special service; fore and aft compound engine, with cylinders of 16 and 32 inches diameter and 24 inches stroke; jet condenser and independent air pumps; boiler with rectangular furnaces and return tubes, having 1,500 square feet heating surface and certified for 140 pounds per square inch working pressure; steam stearing gear; steel deck house, having accommodation for day and night crews, and room in wheelhouse for ten passengers. Built by Messrs. Carrier, Laine & Co., at Lévis, Que., according to plans and specifications of the Commissioners' Chief Engineer. Contract price, delivered and equipped complete, \$20,482. Delivery was to have been made by May 1, 1899, but was not made until September 24.

Derrick No. 1.—A floating derrick for unloading dredgings from flat deck scows, with wooden hull, 74 feet 8 inches long by 26 feet 4 inches wide over frames and 76 feet long by 27 feet 6 inches wide over guards, 7 feet 6 inches depth over deck and floor beams and 8 feet over planking. The main machinery and boiler are those of one side of the double land derrick used in the construction of the guard pier, the same as those of the large floating derricks, and of the following particulars: horizontal non-condensing hoisting engine, with two cylinders 12 inches diameter and 14 inches

stroke, driving, by double gearing, a hoisting drum of 24 inches diameter and a tripping drum of 36 inches diameter; swinging engine, with two cylinders 7 inches diameter and 8 inches stroke; spud gear worked from main engines and the spuds lifted and pinned up by wire ropes working on drums, which are driven by friction clutches and held fast by friction brakes; boiler of locomotive type 45 inches diameter of shell and 14 feet length; boom 79½ feet long to centre of upper sheaves, set to a horizontal reach of 69 feet from the centre of turntable and middle line of hull; clam shell (or grapple) bucket, ordinarily used for unloading scows, of 4 cubic yards capacity, closed and lifted by sheaves and a one inch diameter steel rope, which is connected single with the hoisting drum, and opened by a similar rope connected with the tripping drum; main and swinging engines and boiler built by John McDougall, Montreal, in 1892-3; other machinery and the hull built at the Commissioners' shops in 1899; set to work November 9; cost, exclusive of original machinery, \$12,052.46.

Dumping Scows Nos. 36 and 37.—Two dumping scows of 200 cubic yards capacity each, for serving dredges; wooden hulls, chiefly of southern pitch pine. Dimensions of each over all: length, 106 feet; breadth, 26 feet 10 inches; depth, 9 feet 6 inches; five pockets of 40 cubic yards each when filled level with deck; doors, 15 feet 9 inches by 4 feet 6 inches each leaf, giving a clear opening of 8 feet by 15 feet 9 inches, all five pairs opened and closed simultaneously by a pair of hydraulic cylinders worked from the force pumps of the tug or dredge. Built at the Commissioners' shops in summer of 1899. A third similar dumping scow was also built nearly complete, except the gates and the apparatus for working them Expenditure on the three in 1899, \$25,679.53.

Dredge No. 4.—A contract was made in December, 1898, for the building of a dredge similar to the Commissioners' other dredges, Nos. 1, 2 and 3, but with steel hull and stronger machinery. Delivery was to have been made by June 1 last, but had not been made at the close of navigation last fall, and now cannot be made until the

approaching opening of navigation.

Repairing Berth.—The necessity of using every part of the harbour wharfs for last year's shipping deprived the dredging fleet of a repairing berth at any of them. As a temporary measure, the guard pier was taken possession of and a light pile wharf of 116 feet by 50 feet was built on the inner or west side for the use of the dredging fleet and the ten ton hand derrick was placed upon it. The floating machine shop was moored at the end and a wooden carpenter's shop was built on the top of the bank opposite.

The dredging fleet was served throughout the summer by the tugs St. Peter, St. Louis and Aberdeen, and, after October 7, by the new tug Robert Mackay. Service was also rendered by the small tug M. P. Davis in carrying men and stores, running messages, &c. About one-third its time was occupied in this way, the remainder being

occupied in towing timber and other services for the wharf-building work.

The dredges were got to work in the spring as soon as the clearing away of the ice Dredge No. 1 commenced work on April 26; No. 3 commenced on April 27, and No. 1 on May 1. The completion of the large new pier in sections 18 and 19 by the close of navigation and the undertaking of other works in contemplation involved an extent of dredging beyond the capacity of the three dredges if worked by day only, and two of them were therefore worked night and day as long as was necessary to supply the deficiency. Night work was started by dredge No. 1 on June 19, and by No. 1 on July 3, and both continued night and day work until the close of the working season. Dredge No. 2 worked by day only. Dredge No. 1 was stopped for the season on November 30, No. 2 on December 1, and No. 3 on December 5. All were employed in harbour work throughout the summer, except No. 1, which was used from May 28 to June 23, inclusive, in dredging out the ss. Gallia, which ran aground at Isle de Grace. Lake St. Peter, at the time of falling water. The aggregate number of shifts or watches during which they were on duty on the harbour works, reckoning all days of the day dredges and all nights and days of the night-and-day dredges, except those of Sundays and holidays, was: for No. 1, 287 day and night shifts; for No. 2, 187 day shifts, and No. 3, 331 day and night shifts, making in all 805 shifts. The nominal working hours of each shift were eleven, except in spring and fall, when they were ten; and the aggregate for all the dredges throughout the season was 8,485 hours. The aggregate of actual

working time, that is the time which the dredges actually dredged, exclusive of that lost for repairs, changing positions, detention by ships, irregularities of scow service, and all other causes, was 6,222 hours, or an average of 73½ per cent of the nominal working hours. The percentage of time of actual working is smaller than the average of recent years, mainly because of the conditions incident to night work. Repairs, changing of buckets, changing of places of work, overtaking irregularities in scow service and such like, which, when working by day only could be made good by overtime, must when working both night and day, be made good in working hours, and therefore involve detention.

Derricks Nos. 4 and 5 were set to work on April 24, clearing ice from the wharfs; No. 4 was employed for three days and No. 5 for $8\frac{1}{2}$ days. Derricks No. 2 and 6 commenced unloading scows on April 27, and the new derrick No. 1 on November 9. No. 2 was not worked between July 21 and August 29, and was entirely withdrawn from service on October 18, but the others were kept at work until the end of the season. Derrick No. 4 was worked night and day from the time of commencing night work to the end of the season, and the other derricks were worked sometimes by day and night and sometimes by day only, as found necessary.

Drilling and blasting was commenced by the drill boat on May 1 and work was continued until November 28, when it was sent into Cantin's dock, for slight repairs to

the hull previous to being wintered with the fleet in the harbour.

The total outlay for working the whole fleet, except the drill boat, was \$100,162.95, which embraces the entire cost of working the plant and machinery, including repairs, outfit, wages, salaries, management charges, insurances, allowance for depreciation of plant, and all charges of every kind, except interest on capital. The allowance for depreciation of plant is \$15,726.49, and it includes not only the estimated depreciation of the plant in use in 1899, but that upon all the Commissioners' dredging plant whether in use or not. It is also to be noted in making comparison with previous years, that depreciation was not included in the cost of dredging in any year previous to 1899.

The cost of maintaining and working the three dredges and the tugs and scows which served them, was \$74,831.69, or an average of \$92.96 per day per dredge.

The cost of maintaining and working the five floating derricks for unloading scows was \$25,331.26, or \$27.56\frac{1}{4} average per day for 919 days' aggregate service.

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The following are the comparative costs and quantities of dredging for 1899, and for previous years,—

| Years. | Cubic Yards Dredged. | Total Cost | Cost per Cubic Yard. | Remarks. |
|--------------|----------------------------|------------------|---------------------------------------------------------------|---------------------------------------------------------------|
| | | \$ | \$ cts. | |
| 875 | 151,719 | 68,979 | 0 45 | |
| 876 | 156,082 | 55,462 | 0 35100 | |
| <u>877 </u> | 173,499 | 45,103 | 0 26 | |
| 878 879 | 211,731 189,609 | 48,748 | 0 23 0 21 43 | |
| 880 | 186,430 | 41,006 46,914 | 0 25100 | i |
| 881 | 170,764 | 54,128 | 0 31,63 | |
| (| 187,339 | 53,598 | 0 28100 | Spoon dredges and stone-lifters. |
| 882 | 9,429 | 13,254 | 1 40 100 | Elevator dredges. |
| | 196,768 | 66,852 | 0 33700 | Totals and average. |
| 1 | 36,358 | 17,956 | 0 49 33 | Spoon dredges and stone-lifters. |
| 883 | 6,990 | 19,385 | 2 77 100 | Elevator dredges lifting rock ar boulders and clearing up. |
| , | 43,348 | 37,341 | 0 867% | Totals and average. |
| 884 | | 49,468 | 0 39,37 | Spoon dredges and stone-lifters. |
| 885 | | 28,563 | 0 41 100 | " " |
| 886 | | 25,772 23,259 | 0 44 0 62 | 11 11 |
| 1 | 73,150 | 36,690 | 0 50 16 | |
| | 2,077 | 1,333 | 0 64700 | Elevator dredges. |
| , | 75,227 | 38,023 | 0 50 55 50 | Totals and average. |
| • | 205,283 9,420 | 54,574 2,996 | 0 26 13 0 0 31 10 0 | Spoon dredges and stone-lifter. Elevator dredge. |
| | 214,703 | 57,570 | 0 26 30 | Totals and average. |
| | ` | - | | - |
| 1890 | . 186,670 | 53,674 | 0 28 100 | Spoon dredges and stone-lifter. |
| | 259,267 | 49,571 | 0 1913 | Spoon dredges. |
| 1891 | 43,290 | 14,232 | 0 32 37 0 | - |
| | 302,557 | 63,803 | - 0 21 ₁₀₀ | Total and average. |
| 1892 | 361,947 | 93,595 | 0 25 58 | Spoon dredges. |
| 1893 1904 | | 93,050 98,858 | 0 39 3 5 6 4 | " |
| 1894 | 312,430 496,528 | 99,400 | $\begin{array}{c c} 0 & 31_{100} \\ 0 & 20_{100} \end{array}$ | 11 |
| 1896 | | 103,317 | 0 25100 | ", |
| 1897 | 284,844 | 68,211 | 0 23-25 | : } 11 |
| 1898 | | 61,012 | 0 13.37π | 1 9 |
| 1899 | | 100,163 | 0 10,700 | ,,, |

It will be noticed that notwithstanding the disadvantages of night work, and the addition of the allowance for depreciation of plant in 1899, the average cost of dredging in that year was decidely lower than in any previous year, and that it was only about one-third to one-half of the usual averages.

The cost and character of the dredging in different parts of the harbour in 1899 are given below. All the quantities are either scow measurements from the tallied number of flat deck and dumper scow loads of measured average capacity, or box measurement from the tallied number of boxes placed on scows, containing four cubic yards per box.

The cost of dredging in each case includes its proportion of all the costs of maintaining and working the dredges, tugs and scows, as explained on p. 25; but does not include the cost of unloading the dredgings from scows by derricks, which is separately

given.

Sections 5 to 10 (Windmill Point Basin).—The dredging of 1899 chiefly consisted in dredging up blasted and partly blasted rock on the south-east side of the basin in sections 7 to 10, and for the remainder in cleaning up the work of former years in different parts of the basin. Total quantity dredged, 43,738 cubic yards, scow and box measurement, shale and trap rock with some earth; average cost 19\frac{2}{3} cents per yard; depth of water to which dredging was done, at the then existing stage of water, 30 to 38 feet. Unloading dredgings by floating derricks and filling into cribwork or cars, 3\frac{1}{4} cents per yard additional.

Section 11 (approach to Windmill Point Basin).—Deepening and widening the channel; shale and trap rock, part blasted and part not, boulders, gravel and hard-pan; 30 to 38 feet depth; 5,396 cubic yards, scow and box measurement; cost 10\frac{3}{4} cents per yard. Unloading by floating derricks and filling into cribwork or cars, 3\frac{1}{4} cents per

yard additional.

Section 12.—Dredging out old pile and cribwork wharfs, cutting into bank in rear and deepening for site of new cribwork wharf; the cutting was chiefly of soft earth in the upper part, but hardening with increase of depth to hard-pan at the bottom, 34 to 36 feet depth; 18,289 cubic yards, scow and box measurement, cost 17½ cents per yard, part unloaded by floating derricks cost 3½ cents per yard additional.

Cleaning out ships' berths; mud and rubbish overlying hard-pan; 30 to 35 feet depth; 750 cubic yards scow measurement; cost 17\frac{3}{4} cents per yard. Unloading by

derricks, 31 cents per yard additional.

Section 14.—Dredging sites for the cribwork of the new pier; sewage deposit, mud and hard-pan; 34 to 36 feet depth; 5,650 cubic yards, scow and box measurement; cost 9½ cents per yard. Unloading by derricks 3½ cents per yard additional.

Section 17.—Dredging sites for the cribwork of the new pier; chiefly tough silt; 35 to 38 feet depth; 57,324 cubic yards, scow and box measurement; cost 7\frac{3}{2} cents per

yard. Part unloaded by derricks cost 31 cents per yard additional.

Sections 22 and 23.—Deepening the basin and cleaning out ships' berths; chiefly fine grained hard packed silt; 32 to 35 feet depth; 26,700 cubic yards, scow and box measurement; cost 7 cents per yard. Unloading by derricks, 3½ cents additional.

Section 43. – Cleaning out ships' berths; soft sand and silt; 32 to 36 feet depth; 3,150 cubic yards, scow measurement; cost $11\frac{7}{8}$ cents per yard. Unloading by derricks,

31 cents additional.

Sections 43 to 46.—Dredging on sides of shoal; chiefly coarse sand; 35 to 40 feet depth; 9,900 cubic yards, scow measurement; cost 1.06 cents per yard. Unloading by

derricks, 31 cents per yard additional.

Island Shoal — Dredging inner side of shoal and making a channel through the shoal; tough silt of variable quality; the upper part, to a depth of 3 to 6 feet, was generally so tough and hard that the bucket teeth did not cut and crumble it like ordinary earth, but split it off in masses with a cleavage like rock; beneath was softer stuff, but still tough, difficult dredging. The depth of water on the shoal where dredged was generally from nothing to 10 feet, and on the remainder from 10 to 20 feet; the depth to which dredging was done was 25 to 38 feet. Dredges worked nearly always night and day. Quantity dredged, 781,514 cubic yards, scow and box measurement; cost 62 cents per yard. Of this 695,427 yards were unloaded from the scows by derricks into cribwork and in rear in making the new pier in sections 17 and 18, and the new pier and wharf sections 12 to 15. Cost of such unloading, 31 cents per yard.

Aggregate Dredging.—The aggregate quantity dredged at all places during the year was 963,131 cubic yards, box and scow measurement, and the average cost was 7:551

cents per yard. Of this quantity 177,510 cubic yards were carried and discharged by dumping scows, the cost of which is included in the dredging. The remaining 785,621 cubic yards were carried on flat scows, either on the open deck from which it was unloaded by clam shells and floating derricks, or in 4 yard boxes which were lifted and dumped by the derricks. All the dredged stuff thus unloaded by derrick was deposited in or behind cribwork for wharf building, and on the site of future wharf extension at Windmill Point, and on cars for making the guard pier. The average cost of the whole derrick work, apart from the scow service, was 3.22 cents per cubic yard, scow or box measurement.

Rock Blasting.—The rock drilled and blasted was Utica shale and trap, the trap being imbedded in the shale in beds, veins and pockets, in the proportion of about two-thirds of trap to one-third shale; grade line of finished bottom, 38 feet to 30 feet below water surface at the time of working.

| Working days, May 1 to November 28 | 180 days |
|---------------------------------------------------------|------------------|
| Working time per day | 11 hours. |
| Number of holes drilled and blasted | 4,395 holes. |
| Average depth of each hole, in rock | 7.48 feet. |
| Average depth of each hole from surface of water | |
| Total quantity of rock drilled and efficiently blasted, | |
| measured in solid to 6 inches below finished bottom | 20.486 cub. yds. |
| Total cost including depreciation of plant | \$16,273.83 |
| Cost per cubic yard, measured in solid | |

Appended are tables giving additional particulars of the dredging work and dredging plant in 1899.

Yours respectfully,

JOHN KENNEDY,

Chief Engineer.

SESSIONAL PAPER No. 11b

Harbour Dredeing.—Statement showing cost of Harbour Commissioners' dredging by different dredges, with their proportion of Tug and Scow Service for 1899.

| Vaccools | Dredge Service. | Tug Service. | Scow Service and Sundries. | Diedge with Tug and Scow Service added. | Time | Cost per Working | Quantity | Average cost per | al cost for a | Proportions of Materials Dredged. | rtions terials ged. |
|---------------------|--------------------|---------------------|----------------------------------|-----------------------------------------------|--------------------|---------------------|-------------------|---------------------|------------------------------------|-----------------------------------------|---------------------------|
| GIDAGO | Cost. | Pruportion of Cost. | Proportion of Cost. | Cost. | Service. | Day of Dredge. | | cubic yard. | Additiona inalosadi derricka | Earth. | Rock. |
| | . cts. | e cts. | e cts. | ee cts. | Days or Nights. | s cts. | \$ cts. Cub. yds. | cts. | 鵓 | p. c. | p. c. |
| Dipper dredge No. 1 | 14,852 33 | 6,571 06 | 5,330 65 | 26,754 03 | 282 | 93 22 | 320,469 | .0835 | .03222 | ¥99 | 331 |
| " No. 2 | 10,845 35 | 4,281 45 | 3,473 30 | 18,600 10 | 187 | 25 42 | 148,435 | 1253 | .03222 | 100 | : |
| No. 3 | 15,751 30 | 7,578 39 | 6,147 87 | 29,477 56 | 331 | 90 68 | 494,227 | 9690. | .03222 | 130 | : |
| Totals and averages | 41,448 98 | 18,430 89 | 14,951 82 | 74,831 69 | \$ | 95 36 | 963,131 | .0755 | i : | 34. | 1 |

For full particulars of materials dredged at different places by the various dredges, see detailed statements in the preceding report.

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| HARBOUR DREDGING.—State | ement showir | g particulars | of Cost of w | tement showing particulars of Cost of working the different Vessels employed in Harbour Dredging in 1899. | ifferent Vess | els employed | in Harbour | Dredging | in 1899. |
|----------------------------------------------------------------|------------------------------------------------|----------------------------------------------------|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|--------------------------------------|----------------------------------------------------------|-------------|--------------------------------|------------------------------------------|
| V | Repairs | , and the second | Weege | Proportion of Solving of | Estimated Dameriation | GRAND TOTALS | lorats. | -Days or | Cost per Day |
| 4 EBSGTB | Maintenance. | Tan J | T and con. | Staff. | of Plant. | Cost. | Total cost. | Service dgiV | or Night. |
| | se cts. | s cts. | s cts. | e cts. | \$ cts. | s cts. | & cts. | | es cts. |
| Dipper dredge No. 1 | 5,510 42 3,652 07 4,941 45 | 2,299 71 1,599 36 2,865 79 | 5,096 85 3,692 84 5,656 39 | 685 40 480 50 723 31 | 1,259 95 1,420 58 1,564 36 | 14,852 33 10,845 35 15,751 30 | | 287 187 331 | 51 75 58 00 47 59 |
| Dipper dredges—Totals | 14,103 94 | 6,764 86 | 14,446 08 | 1,889 21 | 4,244 89 | | 41,448 98 | 305 | 11 49 |
| lerricl | 240 76 905 92 1 566 51 | 140 35 342 72 1 057 33 | 513 92 1,685 71 | 48 07 157 62 347 79 | | 943 10 3,512 53 7 399 80 | | 852 | 24 45 24 73 66 53 |
| No. 5 | 1,096 | 851 16 1,025 23 | 3,861 72 4,211 75 | | 469 87 | 6,590 21 6,962 62 | | 240 | |
| Floating derricks—Totals. | 4,710 68 | 3,416 79 | 14,178 18 | 1,194 28 | 1,831 33 | | 25,331 26 | 919 | 27 56 |
| Tug Aberdeen St. Peter St. Louis Kobert Mackay M. P. Davis | 851 45 643 02 413 08 165 54 214 49 | 1,863 46 1,335 03 784 99 463 49 851 07 | 2,741 75 2,498 65 1,746 53 847 26 784 52 | 293 16 240 51 158 47 79 30 72 52 | 929 38 502 54 334 68 116 00 | 6,679 20 5,219 75 3,437 75 1,555 59 1,578 60 | | 313 293 203 80 198 | 21 34 17 82 16 93 19 44 7 77 |
| Tugs-Total | 2,287 58 | 4,798 04 | 8,618 71 | 843 96 | 1,882 60 | | 18,430 89 | 1,087 | 16 96 |
| Scows and plant not in use | 6,974 56 | | | 432 09 | 7,545 17 | | 14,951 82 | | |
| Grand totals | 28,076 76 | 14,979 69 | 37,242 97 | 4,359 54 | 15,503 99 | | 100,162 95 | | |

SESSIONAL PAPER No. 11b Harbour Dredence.—Statement showing the number of days worked by each dredge and the quantity dredged at each place in the Harbour of Montreal in 1899.

| | | | | | | Part of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second seco |
|-----------------------------------------------------------------|------------------------------------|---------------------|----------------------------------------|----------------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ניןנית | Λ | Time of Service. | Service. | Quantities Dredged. | Dredged. | Oliverantum of Soil |
| LIAGES WHERE LYEUGES WOLKER. | , 1.887. V | Days and Nights. | Totals. | Cubic Yds. | Total Yds. | Character of Con- |
| | Dredge No. 2. | 861 | | 43,7:8 | 43,758 | Trap and shale rock, some hardpan and earth, |
| Entrance to Windmill Point | Dredge No. 2. Dredge No. 1. | 2384 575 | 5 | 5,936 285,044 54,777 | 5,936 | Trap and shale rrock, some nardfan, gravel and boulders. Hardpan, silt and stones. Tough silt and stones, some hardpan |
| New Pier, section 17, crib seats | " No. 3 Dredge No. 1 " No. 2 | 276 3 273 | 572 | 3,400 | 781,514 | and shale. Tough silt and stones, some hardpan and shale. Silt and sand. Tough silt and stones. |
| | " No. 3 Dredge No. 1 " No. 3 | 16 2 | 461 | 14,924 5,650 10,160 | 57,324 | Silt, sand and stones. Hardpan and some shale. Silt and stones, some hardpan and rock. |
| : : | Dredge No. 1 | 24.1 | ************************************** | 13,325 | 018,61 | Hardpan, sand and timber. |
| Clearing berth, section 12 Deepening berth, sections 22 and 23 | Dredge No. 3 | 203 | * | 26,700 | 130 | Hardpan, some rock. Gravel, sand and stones. |
| Deepening sections 43 to 46 | Dredge No. 1 | 114 | 114 | 9,900 | | Sand. Sand, stone, macadamizing stone, &c. |
| | Grand totals | | 802 | : | 963,131 | |

HARBOUR DREDGING.—Abstract of Work done by each Dredge for the Harbour of Montreal in 1899.

| | | Time of Service. | Service. | Quantities Dredged. | Dredged. | |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------------------------------------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Vessels. | Places at which Dredging was done, | Days and Nights. | Total. | Cubic Yards. | Total Yards. | Character of Soil. |
| Dredge No. 1 | Island shoal New pier, section 17, crib seats. New pier, section 14, crib seats. New wharf, section 12, crib seats. Section 43, clearing up. Sections 43 to 46, deepening. | 25.5.5.4.4.11.4.4.11.4.4.11.4.4.11.4.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11.4.11 | | 285,044 3,400 5,650 13,325 3,150 9,900 | 320.469 | Hardpan, silt and stones. Silt and sand. Hardpan and some rock. Hardpan, sand and timber. Sand, stone, macadam, &c. Sand. |
| . Dredge No. 2 | Island shoal. New pier, sections IT and 18, crib seats. New wharf, section 12, crib seats. Entrance to Windmill Point. Windmill Point. | 27.3 27.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86 | 187 | 54,777 39,000 4,964 5,936 43,758 | 148,435 | Tough silt and stone, some hardpan and shale. Tough silt and stones. Hardpan, stones and timber. Trap and shale, some hardpan. |
| Dredge No. 3 | Island shoal. New piers, sections 17 and 18, crib seats New pier, section 14, crib seats Despening berths, sections 22 and 23 Clearing out berth, section 12 | 276 16 163 204 14 | 831 | 441,693 14,924 10,160 26,700 750 | 494,227 | Silt, sand and stones, some shale. Silt, sand and stones. Silt and stones, hardpan and rock. Gravel, sand and stones. Hardpan, some rock. |
| | Grand totals | | 805 | | 963,131 | |

SESSIONAL PAPER No. 11b

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| 1899. | |
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| \mathbf{Plant} | |
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| List of Harbour | |
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| | Remarks. | | Wooden hull. " " Rebuilt and altered, 1892. | Wooden hull. | = = = = | Wooden framing. Altered 1899. Three 5-in. steam drills. | | Wooden hull (rebuilt " " in 1891. Wooden hull. | Steel hull. | wow seced |
|-----------------|------------------------------------------------------|----------|----------------------------------------------------------|-------------------------------------|------------------------------------------------------|----------------------------------------------------------|------------|------------------------------------------------------------------------------|----------------------|-----------------------------------------------------------------|
| nich n work. | Depth to wi | F. | 44488 | | | | | | : | : : |
| | Capacity of | Yds Ft. | - 23-7-7-1 - 12-13-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1- | | | | | : : : | : | |
| | Pressure of Steam. | | 011 128 83 83 83 83 83 | 110 | 38 11 11 12 11 11 11 11 11 11 11 11 11 11 11 11 1 | 110 | | 888 | 125 | |
| | Length of Stroke. | Inches. | 18 18 19 19 | 14 | 22777 | 14 | | នន្តន | % % | |
| Engines. | Diameter of Cylinders. | Inches. | 91 91 91 41 | 12 | 1-222 | 12 | | 585 | 9289 | No |
| Eng | Number Diame- of ter of Cylin- Cylin- ders. | | 2227 | 81 | 00000 | 67 | | | , , , | - |
| | Kind of Engine. | | Horizontal, non- | | Horizontal, non- | | | $\left. egin{array}{l} Vertical \\ non- \\ condensing. \end{array} \right\}$ | Vertical condensing. | |
| | When Built. | | 1890-1 1892 1894 1874 1874 | 1899 | 1872 1892 1832 1892 | 1892-3 1895 | | 1875 1875 1879 | 1895 | 1897 |
| • | Depth over all. | Ft. in. | 10 3 10 3 7 6 | | 4442 | 5 | Hold. | 2000 | 0 6 | Overall. 3 1 3 1 10 0 |
| Hull. | Breadth of Beam. | Ft. in. | 27888 | | 8888 9999 | | | 15 0 16 6 10 7 | 18 3 | 14 0 23 0 0 |
| | Length over all. | Ft. in. | 311888 | | 2222 | | | 67 0 71 6 40 5 | 79 3 | \[\begin{pmatrix} 73 & 3 \\ 73 & 3 \\ 135 & 0 \end{pmatrix} \] |
| 116— | Description of Vessel. | Dreders. | Boom spoon dredge, No. 1 | DERRICKS. Clam shell derrick, No. 1 | | Land derrick. Drilling and blasting bost | Tug Boars. | Tug St. Louis " St. Peter " M. P. Davis* | " Aberdeen | Testing boat. |

List of Harbour Commissioners' Dredging Plant, 1899—Concluded.

| | Remarks. | | All wood. |
|-----------------|-------------------------------------|-----------------|---------------------------------------------------------------------------------------------|
| nich n work, | Depth to wl | Yds Ft. | |
| Вискет. | Capacity of | Yds | |
| | Pres. sure of Steam. | | |
| | Length of Stroke. | Inches. Inches. | |
| Engines. | Diame- ter of Cylin- ders. | Inches. | |
| Eng | Number of Cylin- ders. | | |
| | Kind of Engine. | Capacity. | 45 cubic yds 45 cubic yds 67 dec 67 dec 67 dec 150 dec 150 dec 150 dec |
| | When Built. | | 1873 1874 1876 1876 1878 1878 1891 1891 1893 1893 |
| | Depth over all. | Ft. in. | 01000000000000000000000000000000000000 |
| Hirt. | Breadth of Beam. | Ft. in. | 88888888888888888888888888888888888888 |
| | Length over all. | Ft. in. | 25777777777777777777777777777777777777 |
| | Description of Vessel. | Scows. | 1 flat-deck scow No. 11 70 5 11 1 |

*The tug M. P. Davis was dismantled in the fall of 1899.

Dredge No. 1 and Derrick No. 4 were hired to the London Salvage Association, in May and June, 1899, for the purpose of floating s.s. (Julia, aground in Lake St. Peter.

HARBOUR COMMISSIONERS OF MONTREAL, SECRETARY'S OFFICE. MONTREAL, January 22, 1900.

F. GOURDEAU, Esq.,

Deputy Minister of Marine and Fisheries. Ottawa.

SIR,-By direction of the Commissioners, at their meeting held on 16th inst, I send you herewith for the information of the honourable the Minister of Marine and Fisheries, a copy of the report of the Acting Harbour Master, for the calendar year 1899.

I have the honour to be, sir,

Your obedient servant,

DAVID SEATH.

Secretary.

HARBOUR COMMISSIONERS OF MONTREAL, HARBOUR MASTER'S OFFICE, MONTREAL, January 4, 1900.

DAVID SEATH, Esq., Secretary, Harbour Commissioners, Montreal.

SIR, —I beg to submit, for the information of the Harbour Commissioners of Montreal, the following as my annual report for the year ending December 31, 1899.

Appended thereto will be found six comparative statements showing respectively, for the past ten years:

1. The number, tonnage and classification of sea-going vessels that arrived in port:

2. Those that arrived from the maritime provinces;

3. Number and tonnage of inland vessels;

4. The dates of the opening and closing of navigation, &c.;

5. The number and tonnage belonging to the different nationalities;

6. The number and tonnage of vessels consigned to the different agents.

From these statements it will be seen that 801 sea-going vessels arrived in port during the past season with a tonnage of 1,517,611 tons, a decrease of 67 vessels and 66,461 tons from the previous year.

Of these vessels 761 were built of iron or steel, with a tonnage of 1,507,292, and

40 were built of wood with a tonnage of 10,319.

Of Inland vessels there arrived 8,877 with a tonnage of 1,899,097 tons, an increase over the previous year of 1,936 vessels and 91,205 tons, making a grand total of vessels of all classes of 9.678 vessels and a tonnage of 3.416,708 tons, an increase over the previous year of 1,869 vessels of all classes and 24,744 tons.

Some of the principal items of exports and imports (as obtained from the best

sources of information) were :-

EXPORTS.

Lumber to United Kingdom and continental ports—

288,862,521 feet 323,435,266, a decrease of 34,572,745 feet.

Lumber to River Plate—

1,201,266 feet 11,993,924, a decrease of 10,792,658 feet. 11*b*—3½

| | | 1899. | | 1898. | |
|--------------------------------|------------------------|--------|------------------|-----------------|---------------------------------|
| Grain—Wheat | 9.859 | 2.131 | bushe | ls, 8,989,669 b | ushels. |
| Corn | • | • | " | 19,214,299 | " |
| Peas | | • | 66 | 1,648,705 | " |
| Oats | 2,000 | • | " | 6,781,239 | " |
| Barley | | • | " | 321,297 | " |
| Rye | | 5,061 | " | 983,979 | " |
| Flaxseed | | 350 | " | 771,071 | 46 |
| Buckwheat | . 179 | ,195 | " | ŕ | |
| Total | . 30.541 | .702 | " | 33,710,259 | " showing a |
| decrease of 8,168,557 bushels. | , | , | | , , | • |
| 1899. | | 1 | 898. | | |
| Flour 1,320,372 | barrels. | 85 | 7,168 | increase | 463,204 barrels. |
| Meal 40,554 | 66 | | 9,911 | " | |
| Eggs | | | , | decrease | , |
| Cheese 1,816,985 | | , | 6,261 | | 19,276 boxes. |
| Butter | | | , | increase | , , , |
| Apples 286,473 | | | | | 103,035 barrels. |
| Cattle 81,804 | | | 4,136 | | , |
| Sheep 58,277 | | | , | increase | ' |
| Horses 4,739 | " | | 4,024 | | |
| Hay 12,000 | tons. | 1 | 9,072 | decrease | 7,072 tons. |
| | Тмр | ORTS. | | | |
| 1899. | 1,131 | 01010. | | 1898. | |
| Coal from Great Britain 20,6 | 50 tons. | 3 | 7.808 | decrease | 17,158 tons. |
| " United States 259,4 | 93 " | | | increase | |
| " Maritime Provinces 965,0 | | | 9,863 | | 116,151 " |
| Total 1,245, | 156 " | 1,12 | 3,654 | increase | 121,502 tons. |
| Of the above quantities there | were dis | charg | ed: | | |
| In the harbour1,023,5 | | 87 | 7,014 | tons. | |
| In the canal 221,6 | 17 " | 24 | 6,640 | " | |
| 1,245,1 | 56 " | 1,12 | 3,654 | " | |
| Cement | 368 brls. 386 tons. | | 31,843 21,066 | | 161,475 barrels. 9,180 tons. |

There arrived in the harbour the following vessels belonging to the British North Atlantic Fleet, namely, H.M.S. *Talbot*, *Pearl*, *Physche* and the torpedo destroyer *Quail* all of which arrived on September 18, and left again on September 23.

There is a decrease in the number and tonnage of the vessels arriving during the season, but this is accounted for by the fact that many of the regular line steamers were employed during the autumn as transports to South Africa, which, had they made their regular trips to Montreal, would have given a substantial increase in the tonnage over last year.

Owing to the harbour improvements in progress some of the lines had to give up part of the space assigned to them last spring, but provision was made for them elsewhere, and on the whole I think very little inconvenience was felt.

Yours respectfully,

PORT OF MONTREAL.

COMPARATIVE STATEMENT showing the Number, Tonnage and Classification of Sea-going Vessels that arrived in Port the past ten years, with the dates of the greatest number in Port at one time.

| Years. | Steamships. | Tonnage. | Ships. | Tonnage. | Barques. | Tonnage. | Brigs. | Tonnage. | Brigantines. | Tonnage. | Schooners. | Tonnage. | Total Number of Vessels. | Total Tonnage. | Number Port. | in —– |
|--------|-------------|-----------|--------|----------|------------|----------|--------|-------------|--------------|----------|------------|----------|--------------------------|-------------------|-----------------|------------|
| 1890 | 624 | 889,189 | 9 | 13,127 | 3 3 | 19,442 | 2 | 590 | 8 | 1.323 | 70 | 6,671 | 746 | 930,332 | 37, Sept. | 3 |
| 1891 | | 903,043 | | | | 11,054 | | | | | 58 | 6,171 | 725 | | 46, Aug. | 19 |
| 1892 | 658 | 1,004,396 | | | | 5.405 | 1 | 149 | 4 | | 58 43 | 4,243 | | | | 12 |
| 1893 | 737 | 1,128,658 | 3 | 4,014 | 11 | 8,893 | ! | | 5 | 1,856 | 48 | 8,356 | 804 | 1,151,777 | | 19 |
| 1894 | 684 | 1,079,313 | | 4,324 | 14 | | | . . | 5 | 901 | 28 | 2,762 | 734 | 1,096,909 | | 23 |
| 1895 | | 1,055,611 | 1 | 1,545 | 9 | | | | 7 | 1,689 | 31 | 2,827 | | | | 18 |
| 1896 | 669 | 1,200,543 | | 7,350 | 6 | 4,003 | ļ ļ | | 9 | 2,052 | 20 | 2,520 | | 1,216,468 | 37, July | 29 |
| 1897 | 752 | 1,368,395 | | | ۲ | 3,958 | | | 7 | 1,745 | | 4,904 | | 1,379,002 | | 28 |
| 1898 | 830 | 1,567,436 | | 3,023 | 12 | 10,0 -1 | 1 | | 5 | 1,478 | 19 | 2,104 | | 1,584,072 | | 1 |
| 1899. | 773 | 1,509,668 | ١ | | 7 | 3,530 | | | 3 | 1,048 | 18 | 3,365 | 801 | 1,517,611 | 39, July | 2 9 |

T. BOURASSA, Acting Harbour Master.

PORT OF MONTREAL.

Comparative Statement showing the Number, Tonnage and Classification of Sea-going Vessels that arrived in Port from the Maritime Provinces the past ten years.

| Years. | Steamships. | Tonnage. | Ships. | Tonnage. | Barques. | Tonnage. | Brigs. | Tonnage. | Brigantines. | Tonnage. | Schooners. | Tonnage. | Total Number of Vessels. | Total Tonnage. |
|--------|-------------|-----------------|--------|----------|----------|----------|--------|----------|--------------|----------|----------------|----------|--------------------------|-------------------|
| 1890 | 252 | 235,722 | | J | | | | | 1 | 170 | 42 29 36 | 3,714 | 295 | |
| 1891 | 272 | | | | 2 | 1,462 | | | 2 2 | 520 | 29 | 3,067 | 305 | |
| 1892 | 289 | 275,040 | | | 3 | 2,215 | 1 | 149 | | 340 | 36 | 2,214 | 331 | |
| 1893 | 333 | 324,188 | | | | | 1 | 169 | | | 34 | 2,577 | 368 | |
| 1894 | 349 | 362,945 | | | 3 | 2,323 | | | 4 | 609 | 23 | 2,230 | 379 | |
| 1895 | 256 | | | | | | | | 5 | 1,070 | 30 | 2,734 | | 300,060 |
| 1896 | 252 | 292,880 | | | 1 | 178 | | | 4 | 734 | 15 | 1,188 | | |
| 1897 | 298 | 364, 936 | | | 1 | | 1 | | 2 | 376 | 31 | 1,051 | 311 | |
| 1898 | 327 | 372,274 | | | 1 | | l | l | | | 14 | | 341 | |
| 1899 | 336 | 415,825 | | | | | | | 1 | | 7 | 646 | 343 | 416,471 |

PORT OF MONTREAL.

COMPARATIVE Statement showing the Number and Tonnage of Inland Vessels that arrived in port the past ten years, with the greatest number in port at one time.

| Years. | Number of Vessels. | Tonnage. | Greatest Number in Port at one time. |
|--------|--------------------------|-----------|--------------------------------------------|
| 1890 | 5,162 | 966,959 | 167, Oct. 20 |
| 1891 | 5,268 | 1,119,484 | 151, Sept. 7 |
| 1892 | 5,200 | 1,049,600 | 159, Aug. 6 |
| 1893 | 5,244 | 1,153,600 | 153, July 25 |
| 1894 | 4,666 | 979,809 | 172, May 20 |
| 1895 | 4,498 | 943,717 | 165, July 20 |
| 1896 | 4,832 | 1,004,117 | 160, June 11 |
| 1897 | 6,384 | 1,134,346 | 200, July 30 |
| 1898 | 6,941 | 1,807,892 | 216, Aug. 12 |
| 1899 | 8,877 | 1,899,097 | 219, July 28 |

T. BOURASSA,

Acting Harbour Master.

PORT OF MONTREAL.

COMPARATIVE Statement showing the dates of the Opening and Closing of Navigation, first arrival from sea and the last departure for sea, the past ten years.

| Year. | • | ening of igation. | Closi of Naviga | Ü | Arri | First ival from Sea. | Last Departure for Sea. | | |
|-------|-------|-------------------------|-----------------------|----|-------|----------------------------|-------------------------------|-----|--|
| | | | | | - | | | | |
| 390 | April | 14 | December | 3 | April | 30 | November | 2 | |
| 891 | 11. | 17 | | 17 | | 27 | | 2 | |
| 392 | 11 | 13 | ,, | 23 | ., | 23 | ., | 2 | |
| 893 | ** | 24 | ,, | 4 | | 3 | 1, | 2 | |
| 894 | 11 | 12 | ٠, | | April | 27 | | - 5 | |
| 95 | ** | 20 | ,, | 6 | | 27 | ** | - 5 | |
| 96 | ** | 22 | 19 | 19 | - 11 | 28 | ., | | |
| 197 | | 17 | ** | 19 | 11 | 30 | ,, | | |
| | March | 31 | ,, | 12 | | 26 | ., | | |
| 99 | April | 24 | ., | 30 | | 27 | ., | | |

PORT OF MONTREAL

STATEMENT showing the Nationality and Tonnage of Sea-going Vessels that arrived in port during the Season of 1899, that were navigated by 30,686 seamen.

| Nationality. | Number of Vessels. | Tonnage. |
|---------------------------------------------------|---------------------------|------------------------------------------------------------|
| British Norwegian German Danish American Austrian | 678 95 8 6 13 | 1,342,027 140,334 14,756 13,200 5,444 1,850 |

T. BOURASSA,

Acting Harbour Master.

PORT OF MONTREAL.

Number and Tonnage of Sea-going Vessels that were consigned to the following Merchants during the Season of 1899.

| No. | Name of Firms. | Steam. | Tonnage. | Sail. | Tonnage. | Total Vessels. | Total Tonnage. |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11 12 13 14 15 16 17 | Kingman & Co. R. Reford & Co. R. Reford & Co. R. Reford & Co. Bider, Dempster & Co. H. & A. Allan McLean, Kennedy & Co. D. Torrance & Co. Furness, Withy & Co. Win. Johnston & Co. F. Leyland & Co. Carbray, Routh & Co. Hy. Dobell & Co. J. G. Brock & Co. The Intercolonial Coal Co. The Intercolonial Coal Co. The Imperial Government Masters. Auderson, McKenzie & Co. A. Lemieux | 22 25 21 25 16 13 4 14 | 333,275 224,112 205,590 194,194 120,765 107,042 87,351 78,389 61,326 22,690 19,858 18,464 16,740 10,670 3,950 | 2 2 7 | 534 1,212 2,886 | 255 102 71 74 59 30 36 22 25 21 25 23 13 4 15 8 | 333,275 224,112 205,801 194,194 120,765 107,042 87,950 78,389 61,326 62,690 19,858 18,998 16,740 10,670 5,162 2,886 2,352 |
| 18 | Five others | $\frac{2}{773}$ | 2,900 1,509,668 | 28 | 7,943 | 801 | 5,401 1,517,611 |

T. BOURASSA,

Acting Harbour Master.

WEATHER REPORT FOR 1899.

| Date. | Wind (at 8 to 9 a.m.) | Temperature (at 8 to 9 a.m.) | Remarks. |
|---------|-----------------------|------------------------------|-----------------------------------------|
| Jan. 1. | West | 11 below | Pine day areasing as in Tarana B |
| , 2. | | | Fine day, crossing on ice Longue Pointe |
| | East | 29 above | Snowing. |
| 4. | | 25 " | Fine day. |
| | . Strong south-east | | Raining. Fine day. Water 36.6. |
| | . South-east | 22 " | Snow flurry. |
| . 7 | | 22 " | Fine day. |
| 8. | . West | 4 " | Snowing. |
| 9. | | Zero. | Crossing to Longueuil. |
| " 10. | . North-west | | Cold day. |
| " 11. | North | 8 | Fine day. |
| ıı 12. | West. | Zero | Roads to St. Lambert. Ic. |
| 19 | Nonth | 0 - 1 | track on river. |
| 1 4 | North | 8 above• | Dull day. |
| | North-eastSouth-east | 1 | Snowing. |
| | West | | T: J |
| " 17 | | 00 | Fine day. |
| | West | | Dull day. Ice shoved at 2 p.m. |
| 19 | | | rine day. |
| . 20 | | 22 " | l " |
| 21 | North-east | | Dull day. |
| 11 22 | . East | 34 ,, | " |
| " 23 | West | 24 " | Fine day. |
| | East | 36 " | Rain. |
| | North-west | | Fine day. |
| " 26 | | 22 " | Snowing. |
| ıı 27 | | Zero | Fine day. |
| " 28 | East | 10 above | Dull day |
| 90 | West | 5 below | Fine day. |
| 01 | | | Dull day. |
| Feb. 1 | | 8 above | Fine day. |
| " 2 | | | " |
| | North-east | | Snowing. |
| 11 4 | North | 10 " | Dull day |
| n 5 | West | | Fine day. |
| 11 6 | East | 8 " | " |
| " 7 | North | Zero | Ice shove at St. Lambert; road brok |
| ٥ | NT | C - bure | away. |
| | North-east | 6 above | Snowing. |
| | . West | | Fine day. |
| | West | 6 " | " |
| , 12 | | | " |
| | East. | | " |
| | West | 12 " | " |
| | North-east | 19 " | " |
| u 16 | West | . 23 " | " |
| | South | 32 " | Dull day. |
| | South-west | | " |
| | South | | Fine day. |
| | West | | 11 |
| | North | | |
| | South | 100 | |
| | West | 28 " | Fine day. |
| " 24 | | 12 " | II . |
| " 25 | | 16 " | Dull dan |
| 27 | | 0.00 | Dull day. |
| | East | | Fine day. |
| | West | 24 " | rine day. |
| | North-east | | " |
| ., 3 | " | 30 " | Dull day. |
| 4 | South-east | 38 " | |
| ıı 5 | South-west | . 40 " | Dull day. |
| ., 6 | West | 26 " | Fine day. |
| " 7 | Strong north | 18 " , | Dull day. |
| ., 8 | North-east | | Fine day. |
| 9 | West | 30 " | 1 |

WEATHER REPORT FOR 1899.—Continued.

| Date | е. | Wind (at 8 to 9 a. m.) | Те | mpe | rature | (at | 8 to | 9 a. m. | .) | Remarks. |
|--------|-----------|------------------------|-----|------|-----------|---------|-------|---------------------------------------|--------------------------|-----------------------------------------|
| Mar. 1 | 10 | East. | 20 | abov | ·e | | | | F | Fine day. |
| | | South | 33 | 11 | | | | | ΪĐ | Dull day. |
| 1 | 12 | East | 28 | 11 | | | | | | Rainy day. |
| ., 1 | 13 | West | 26 | ** | | | | | | Fine day. |
| | | North-east | 20 | ** | | | | | | " |
| | | East | 32 | | | | | | | " |
| ., 1 | | West | 26 | ** | • • • • • | | | | $\cdot \mathbf{I}_{0}$ | Ice shoved on south side of Gd Pier. |
| | | North | Ze | ro | | | | | F | Fine day. Closing the ramps. |
| 1 | 18 | | 6 | abov | | | | | | Fine day. |
| ,, 1 | 19 | | 22 | tt | | | | | | Snowing. |
| | 20 | North-east | 18 | 11 | | | | | | 11 |
| 11 2 | 21 | West | 16 | ** | | | | | . F | Fine day. |
| 2 | 22 | North-east | 23 | ** | | | | | S | Snowing. |
| | | East | 29 | ** | | | | | | Fine day. |
| . 2 | | West | 24 | 11 | | | | | | u · |
| 11 2 | 25 | East | 18 | ** | | | | | - | 11 |
| 11 2 | 26 | | 28 | 11 | | | | | | 11 |
| | 27 | West | | 11 | | | | | L | Dull day. |
| ,, : | | North | | ** | | | | | | 11 |
| 2 | 29 | West | 30 | 11 | | | | | | Snowing. |
| | 30 | | 30 | ** | | | | | | Fine day. |
| | 31 | North | 28 | 11 | | | | | ĺ | *** |
| \pril | 1 | West | 32 | 11 | | | | | | 11 |
| 11 | 2 | North | 28 | 11 | | | | | | 11 |
| ** | 3 | West | | 11 | | | • • • | . . | | 11 |
| ** | 4 | | 32 | ** | | | | | | H . |
| ** | 5 | North-east | 30 | ** | | | | | | " |
| 11 | | East | | 11 | | | | | | u . |
| 11 | | North-east | | 11 | | | | | | II . |
| ** | 8 | | | | | | | | | Rainy day. |
| ** | 9 | South-west | 34 | ** | | | | | _ | |
| | | East | | 11 | | | | | . F | Fine day. Crossing at Longueuil. |
| | 11 | | | 11 | | | | | . · İ | " First shove at 2 p. m. |
| | 12 | | | | | | | | | Rainy day. |
| | | North | | 11 | | | | | | Dull day. |
| | | East | | 11 | | | | | | Fine day. |
| | | West | | 11 | | | ٠. | | | 11 |
| | 16 | | | 11 | | | | | | II . |
| | 17 | | | ** | | | | | | II . |
| " | 18 | East | 46 | ** | | | | | - 1 | |
| ** | 19 | West | 40 | 11 | | | | | | 11 |
| 11 | ZU | South-east | 54 | ** | | | | • • • • • • | • • | D 11 1 0 |
| ** | 41 | North | 42 | ** | | | | | | Dull day. Open ramps. |
| | | West | | | | | | | | 771 |
| | | East | 55 | | | | | | . 1 | Fine day. |
| " | 24 | | 48 | 11 | | · • • • | | | • • | Opening of navigation, Str |
| | | 1 | 1 | | | | | | | Longueuil & Hochelaga from Boucerville. |
| | 95 | South-east | 50 | | | | | | 1 | Fine day. |
| | 26 | | 52 | | | | | | | · · |
| | 27 | | | | • • | | | · · · · · · · | - 1 | " |
| | | South | | . " | | - | | | | " |
| " | 20 90 | South East | 60 | | | | | | | Dull day. |
| ** | | West | | | • • | | | | | Fine day. |
| Мау | 1 | | | | | | | | | |
| шау | | South-east | 52 | | | | | . | | 11 |
| | | East | | | | | | | • • | ** |
| 11 | 4 | | | | | | | | ì | 11 11 |
| " | | North-east | | | | | | | - 2 | 11 |
| ,, | | South | | | | | | | | " |
| " | | West | | | | | | | - 1 | " |
| 11 | | North-east. | | | | | | | | " |
| 11 | 9. | | | | | | | | | " |
| ** | | South-west | | | | | | | | " |
| " | 11 | | | | | | | . | | ! 11 |
| " | 12. | | 68 | ; | | | | | | " |
| " | | South-east | | | | | | • • • • • • • • • • • • • • • • • • • | | " . |
| " | | North-west | | | | | | | | " |
| | 15 | East | 150 | | | | | | - 1 | ,, |
| 87 | w. | West | 59 | 11 | • | | | | | ,,, |

WEATHER REPORT FOR 1899-Continued.

| Date. | | Wind (at 8 to 9a. m.) | Remarks. | | | |
|----------|---------------|-----------------------|----------|-------|-----------------------------------------|------------------------------|
| Иау | 17. | | | above | | Fine day. |
| " | | South-west | 57 | ** | | Dull day. |
| 11 | | . North-east | 54 | ** | | . " . |
| ** | | East | 50 | 11 | | Rainy day. |
| 11 | 21. | | 56 | ** | | Fine day. |
| ** | | North-east | 63 | ** | | " |
| !! | 23. 24. | | 73 | 11 | | 11 |
| 11 | | | 70 | 11 | | " |
| " | | West | 72 | | | ;; |
| ** | 27. | . East | 50 | ** | | Rainy day. |
| 11 | | . North-east | | 11 | | Fine day. |
| ** | 29 . | | | 11 | | |
| ** | | East | 58 | ., | | Fine day. |
| " | 31. | | | " | | 11 |
| une | 1. | South | 76 66 | " | •••••• | Dull deg |
| " | | South East | 65 | " | | Dull day. Fine day. |
| " | 4. | . Past | 69 | " | | Rainy day. |
| " | 5. | | | 11 | | Dull day. |
| 11 | 6. | | 80 | ., | | Fine day. |
| 11 | 7. | | 62 | ** | | " |
| 11 | 8. | | 74 | 11 | | Dull day. |
| 11 | 9. | | 70 | ** | | Fine day. |
| 11 | | . North-east. | | ** | | 11 |
| 11 | 11. | , tt | | 11 | | " |
| ** | | West | 74 | 11 | | " |
| 11 | 13. 14. | | 78 | ** | | Dull day. |
| " | | West | 66 | " | | Rainy day. |
| " | 16. | | | ,, | | Dull day. |
| | | . North-west | | 11 | | Fine day. |
| 11 | | . West | 67 | ** | | " |
| " | | . North-east. | 70 | ** | | " |
| ** | 20. | South-west | 63 | ** | | Heavy rain and thunderstorm. |
| ** | 21. | . East | 65 | ** | • • • • • • • • • • • • • • • • • • • • | Fine day. |
| 11 | | . West | 60 | ** | | Dull dog |
| ** | 23. 24. | | | " | ** *** *** *** *** | Dull day. Fine day. |
| 11 | 25. | North-east | | ** | | Time day. |
| 11 | | . East. | | | | " |
| " | 27. | | 69 | 11 | | " |
| ** | | . South-east | | 11 | | Rainy day. |
| ** | | . North-east | | 11 | | Fine day. |
| 11 | | . North-west | | 11 | | 11 |
| uly | | . West | | 11 | | " |
| ** | | | 87 | " | | " |
| " | $\frac{3}{4}$ | | | 11 | | " |
| 11 11 | 5. | | 73 | 11 | | 11 |
| " | 6. | | 76 | 11 | | Rainy day. |
| ** | | South-east | | 11 | | Fine day. |
| 11 | 8. | | | ** | | 11 |
| ** | 9. | . North-west | | .1 | | Rainy day. |
| ** | 10. | | 75 | 11 | | Fine day. |
| 11 | | West | | • | | ** |
| " | | North-west | | 11 | | " |
| " | 13. | EastNorth | 10 | " | | 11 |
| " | | South-west | | " | | 11 |
| 11 | | West | | " | | |
| " | | North | | 11 | | 1 " |
| " | | North-east | | " | | |
| " | 19 | | | " | | |
| 11 | 20. | | 70 | 11 | | 1 ,, |
| ** | | East | | 11 | | |
| Ħ | | | | *** | | , , |
| *1 | 23 | | | ** | | |
| | ~ 4 | " | 60 | | | . " |

WEATHER REPORT FOR 1899-Continued.

| Da | ate. | Wind (at 8 to 9 a.m.) | Temperature (at 8 to 9 a.m.) | Remarks. |
|-------|------------|-----------------------|------------------------------|-------------------------------------|
| | | | | |
| July | 2 5 | South-west | 75 aflove | Fine day. |
| " | 26 | North-west | 75 " | " |
| 11 | 27 23 | | 50 | " |
| " | 29 | | | 91 |
| ** | 30 | North-east | | " |
| . " | | East | 69 " | 11 |
| Aug. | 1 2 | | | ** |
| " | 3 | | 70 | 11 |
| 11 | 4 | | | 11 |
| ** | 5 | | | |
| *** | 6 | | 78 " | 11 |
| 11 | 7. 8 | North-east | 70 | 11 |
| " | 9 | | 64 " | 11 |
| 11 | 10 | South-west | 63 " | *** |
| 11 | 11 | | 70 " | |
| ** | 12 | West | 69 " | Rainy day. |
| " | 13 . 14 | South-east | 65 " | Fine day. |
| - 11 | 15 | South-west | 68 " | " |
| ** | 16 | | 65 " | " |
| ** | 17 | | 80 " | н |
| ** | 18. | West | 76 " | II . |
| 11 | 19 20 | North-east | 79 " | 11 |
| 11 | | South-west | 85 " | |
| ** | 22. | South-east | 78 " | Rainy day. |
| 11 | 23 | North-east | 68 " | |
| 11 | 24 25 | | 66 " | Fine day. |
| " | 26 | South-east | 75 " | Dull day. |
| " | | West | 70 " | rine day. |
| 11 | 28 | South | 72 " | |
| 11 | 29 | | | 11 |
| | 30 31 | | | ! !! |
| Sept. | 1 | | 62 " | 11 |
| 11 | 2 | 11 | 64 " | " |
| 11 | 3 | West | | Rainy day. |
| " | 4 | North-east | | Fine day. |
| " | 5 6 | South-east | 58 " | II . |
| 11 | 7 | South-east | 57 " | •• •• |
| 11 | 8. | East | | |
| *1 | 9 | North-east | 60 " | " |
| 11 | 10 | | 64 " | " |
| ** | 11 12 | | 66 " | Rainy day, hail at |
| 11 | 13 | North | 59 " | Rainy day, hail storm. Fine day. |
| 11 | 14 | | 51 " | " " |
| " | 15 | North | 53 " | 11 |
| ** | 16 | South-west | A P | 11 |
| " | 17 18 | South | 75 " | |
| " | | East | 58 " | 11 |
| 11 | 2 0 | South-east | 55 " | Rainy day. |
| " | | North-east. | 61 " | Dull day. |
| " | | WestSouth-east. | 1.5 | |
| " | | West | 45 " | Reiny dev |
| " | | South-east | | Rainy day. |
| ** | 2 6 | North | 68 " | 11 |
| 11 | | N | 49 ,, | Dull day. |
| 11 | | North-west | 60 " | Fine day. |
| " | | South-west | | " |
| Oct. | | East | 36 " | Cloudy with snow falling. |
| 11 | 2 | North-east | 31 " | Dull day. |
| | | | | |

WEATHER REPORT FOR 1899-Continued.

| Da | te. | Wind (at 8 to 9 a.m.) | | Temperature (at 8 to 9 a.m.) | | | | | | Remarks. | | |
|------|-------------|-----------------------|----------|------------------------------|----|------------|-----------|---------|-------------|----------|----------------------------------------------|--|
| Oct. | 3 | East | 44 a | bove | | | | | | Fin | e day. | |
| 11 | 4 | | | " | | | | | • • • • • | 1 | uay. | |
| 11 | 5 | North-east. | | ** | | | | | | | | |
| 11 | 6 | South-west | 51 | 11 | | . | | | | | 11 | |
| ** | 7 | West | 40 | ** | | | | | | | 11 | |
| 11 | | East | 46 | ** | | | | | | Rai | ny day. | |
| ** | | South-east | 48 | ** | | | | | | | n • | |
| 11 | | West | 50 | " | | | | | | | | |
| 11 | | South-east | 63 | " | | | | | | | nperature at 3 p.n 69 degrees. | |
| " | | North | 1= - | | | | | | | Jul | ii day. | |
| ** | | North-west | 60 | | | | | | | Fin | ne dav. | |
| ** | | North | 64 | ** | | | | | | | 11 | |
| 11 | | East | 52 | ** | | | | | | ! | н | |
| -11 | 17 | West | 68 | ** | | | | | | | " | |
| 11 | | South-west | | 11 | | | | | | | | |
| 11 | | West North-east | 57 43 | ** | | | | | | | e day. | |
| 11 | | East | 38 | ** | | | | | | | 11 | |
| " | | West | | ** | | | | | | | 11 | |
| 41 | | South-west | | ** | | | | | | | | |
| 11 | | East | | ** | | | | | | . ! | 11 | |
| -11 | | South-west | | ** | | | | | | | U | |
| - 11 | | North-west | | 11 | | | | | | | ." , | |
| " | 28. | South-east | 44 | 11 | | | | | | | iny day. | |
| 11 | | North-west | | " | | | | | | | | |
| " | | South-west | 46 | " | | | | | | | e day | |
| ** | | North-east. | | | | | | | | 1 111 | ic day. | |
| Nov. | | East. | | 11 | | | | | | . Rai | iny day. | |
| 11 | | North-east | 33 | ** | | | . | | | | ne day. | |
| 11 | | South | 37 | 11 | | | | | | ٠ ا ـ ا | n _ | |
| 11 | | N | | " | | | | | | Rai | iny day. | |
| | | . West | | ** | | ٠. | | | | | ne day. | |
| 11 | | West | | 11 | | | | | | | | |
| ** | | East | | ** | | | | | | | ll day | |
| 11 | | North-west | | | | | | | | | " | |
| 11 | | North-east | | 11 | | | | | | | ne day. | |
| ** | | South-west | | *1 | • | | | | | • | First snow of season at 2.30 p. n | |
| 11 | | North-west | | 11 | | | | | • • • • • | | " First sleigh roads. | |
| *** | | North | 32 | " | | • • • • | | | | 10- | 3 | |
| 11 | 14. | . West | | ** | | | | | · · · · · · | ro | ggy day. ne day. | |
| " | | North | | | • | | | | | | ie uay. | |
| ** | | East. | 27 | - 11 | | | | | | ` | Steamer Hamilton to wint | |
| | | | į | | | | | | | 1 | quarters. | |
| -11 | | South west | 39 | 11 | , | | | | | | " | |
| ** | | . West | | 11 | • | | • • • • | • • • • | | | 11 | |
| 11 | | . East | | ** | • | | | | · · · · · · | | ** | |
| " | | North-east | | " | | | | | | | ıll day. | |
| " | 23. | | 39 | | • | | | | | Fir | ne d ay. | |
| 11 | 24. | | 34 | ** | | | | | | | II. | |
| ** | 25 . | East. | . 36 | 11 | | | | | | | H . | |
| 11.1 | | . North-east | | 11 | | | | | | - | ** | |
| ** | | . West | 40 | ** | | | | | | | H 31 .1 | |
| " | 28. 20 | | | 11 | | | | | | | ill day. | |
| " | 29. 30 | North-east | 43 38 | *** | | | | | | | ne d ay. | |
| Dec. | 30. 1 | South-west | 42 | " | | | | | | • | " | |
| " | 2. | . North-east | 43 | " | | | | | | . Du | ıll day. | |
| 11 | 3. | . West | . 48 | ** | | | | | | Fir | ne day. | |
| 11 | 4. | . North-east | 30 | 11 | ٠. | | | | | Sn | owing. | |
| 11 | | North-west | | 11 | | | | | | | ne day. | |
| *1 | 6. | North-east | . 24 | ** | • | | | · • • • | • • • • • | | owing; harbour fleet put into wint | |
| " | 7 | . West | 26 | | | . . | | | | | quarters opposite harbour office. ne day. | |
| " | 8. | North-west | 23 | " | | | | | | | ne day. | |
| 41 | | North | | | | | | | | | ** | |

WEATHER REPORT FOR 1899- Concluded.

| Dat | .e.• | Wind (at 8 to 9 a.m.) | Temperature (at 8 to 9 a.m.) Remarks. |
|------|----------|-----------------------|-------------------------------------------------|
| Dec. | | | 36 above Fine day. |
| 11 | | | Rainy day; removing the lights. |
| 11 | | | 57 " " |
| 11 | | North-east | 41 " |
| ** | 14 | | 20 " Fine day. |
| 11 | | North | 24 " Heavy snowstorm. |
| ** | | | 13 " Fine day. |
| *1 | | South-east | |
| ** | | West | 37 " Dull day. |
| ** | | South | |
| 11 | | | 30 " Fine day. |
| 1. | 21. | South | 38 " |
| 11 | | West | |
| 11 | | South-east | |
| " | | North | 34 " |
| 11 | | South-west | |
| 11 | | West | |
| 11 | | South-west | |
| 11 | | West | |
| ** | | South-east | 20 " Snowing. |
| 11 | 30 31 | West | 1 " Stormy day; closing of navigation Fine day. |

APPENDIX No. 3.

TORONTO HARBOUR COMMISSIONERS' REPORT FOR THE YEAR 1899.

Secretary of the Toronto Harbour Trust in account with the Commissioners for the year ending 31st December, 1899.

| Dr. Gr | ENERAL BA | LANCE SHEET. | CR. | |
|----------------|-----------------------------------------------------------|-------------------|------------------------------|----|
| Wharf property | \$ cts. 43,073 72 591 91 5,619 02 7 55 5,800 00 55,092 20 | Bonds (unmatured) | \$ 5,000 50,092 55,092 | 20 |

We have examined the books and vouchers and have compared the balance sheet, as above, with the said books and vouchers, and we certify the same to be correct, and to represent a true statement of the affairs of the Trust at this date, December 31st, 1899.

W. R. HARRIS,
S. BRUCE HARMAN,
Auditors.

ARTHUR B. LEE, Chairman.
J. T. MATTHEWS,
F. S. SPENCE,
W. A. GEDDES,
JAMES FRAME,

Commissioners.

COLIN W. POSTLETHWAIFE,

Harbour Master.

Toronto, January 5th, 1900.

RECEIPTS and Expenditure of the Toronto Harbour Trust for the year 1899.

| Receipts. | \$ cts. | Expenditure. | \$ | cts |
|----------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------|
| Cash in bank, Jan. 1 | 2,138 25 15 65 5,000 00 11,558 90 66 67 8 00 7 25 49 54 25 15 | Charges Premium and interest. Lights, buoys and beacons. Insurance Salaries General repairs Printing and stationery. Office expenses and rent. Dredging Expenses to Ottawa. Engineer's fees Surveyor's fees. Interest on overdraft Bonds (matured) Cash in bank | 153 1,740 1,704 35 775 2,668 100 120 46 6 5,000 5,619 | 00 20 00 08 07 91 48 00 00 10 |
| | 18,869 41 | | 18,869 | 41 |

Examined and found correct,

W. R. HARRIS, S. BRUCE HARMAN,

Auditors.

TORONTO, January 5th, 1900.

Dr.

PROFIT AND LOSS.

CR.

| | \$ ets. | , | \$ cts |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| Charges Premium and interest Lights, buoys and beacons Insurance: Salaries General repairs Printing and stationery. Office expenses and rent Dredging Loss on elevator Engineer's fees Surveyor's fees Deputation to Ottawa. Balance to credit of profit and loss. | 425 00 375 00 27 53 153 00 1,740 00 1,696 83 \$5 07 775 91 2,668 48 4,450 00 120 00 46 00 74 85 50,092 20 | Balance per ledger Harbour dues. Canadian Pacific Railway. Interest on deposits. Rent, boathouse sites | 46,069 53 11,558 90 5,000 00 43 44 8 00 |
| · - | 62,679 87 | | 62,679 8 |

Examined and found correct.

W. R. HARRIS, S. BRUCE HARMAN,

Audtiors.

TORONTO, January 5th, 1900.

63 VICTORIA, A. 1900

STATEMENT OF ACCOUNTS FOR THE YEAR 1899 IN DETAIL.

| 1899. | FURNITURE ACCOUNT. | \$ cts. | \$ ct |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------|
| Jan. 1 | Amount per ledger folio 490 | •• •• ••• | 591 91 |
| | PROPERTY ACCOUNT. | | |
| Tom 1 | Amount per ledger folio 495 | | 19 079 76 |
| Jan. 1 | Amount per leuger folio 455 | **** | 43,073 72 |
| | ELEVATOR ACCOUNT. | | |
| | Amount secured by assurance written off by profit and loss. | | |
| Dec. 30 | written off by profit and loss | 4,450 00 | 10,250 00 |
| | GENERAL REPAIR ACCOUNT. | | |
| 7ah 98 | G. Booth & Son, lettering notice boards | 16 25 | |
| July 28 | F. W. Stean & Co., painting lighthouses, &c | 132 00 | |
| | Lumber and hardware, breakwater repairs | 1,146 58 331 10 | |
| | Kivas Tully, engineer's fees on same | 78 15 | |
| A 110 2 | Nov. 30, sale of old material | 1,704 08 7 25 | |
| iug. U | | | 1,696 83 |
| | Charges. | | |
| | Bonus to harbour master and deputy | 125 00 300 00 | |
| Jec. 23 | Tees to commissioners and address | | 425 00 |
| | PRINTING AND STATIONERY. | | |
| Feb. 3 | Annual statement, Arcade Printing Co | 15 00 | |
| Apr. 15 | Import manifests, " New keys and repairing old ones | 5 00 0 60 | |
| Oct. 13 | Embossed envelopes, J. Bain & Co | 4 00 | |
| " 13 Dec. 30 | Black and red ink "Pens, pencils and stamps | 1 05 9 42 | |
| | Tuesto angli. A greating | | 35 07 |
| | Insurance Account. | | 150.00 |
| an. 10 | Premiums on lighthouses and elevator | | 153 00 |
| | LIGHT, BUOYS AND BEACONS. | | |
| Apr. — | Painting can and spar buoys | 18 10 | |
| May — | Placing and raising buoys Notice to mariners and posting same | 44 00 9 50 | |
| Dec. — | Gas account | 11 79 | |
| 7 | New burners for white lighthouse | 2 00 1 21 | |
| Iar. 11 | Sounding in Queen's wharf channel Tug for inspecting breakwater and Queen's wharf. | 1 50 | |
| Nov. 27 | Extra labour, repairing buoys | 3 00 3 10 | |
| F 01 | D | 94 20 | |
| May 31 | Proportion paid by city warterworks, as per agreement | | 27 53 |
| | Salaries. | | |
| Dec— | C. W. Postlethwaite, harbour master | 1,020 00 720 00 | |
| " " | water a man and a company among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an among an amon | .20 00 | 1,740 00 |

STATEMENT OF ACCOUNTS FOR THE YEAR 1899, IN DETAIL—Concluded.

| | OFFICE SUPPLIES. | \$ | cts. | \$ | cts |
|----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|----------------------------------------------------|-------|------|
| Oct. 13 I July 13 Q Jan. 21 I " 30 V Oct. 5 S " 23 V Dec. 30 I | Rent of offices for one year Rent of two telephones. Jas account Directory for 1899. Wire letter box for office door Subscription to Globe newspaper. Waterworks account for house at Queen's wharf Diaries for offices. Petty cash. | 8 5 0 5 2 | 00 00 01 00 75 00 60 00 55 | nnt | . 01 |
| | | | | 775 | 91 |
| " —[I | DREDGING ACCOUNT. W. E. Phinn, per contract. K. Tully, engineer's fees. J. B. Allan, check clerk | 2,493 124 50 | | 2,668 | 48 |
| | INTEREST ACCOUNT. | | | • | |
| May 31 Nov. 20 | Interest on deposit in Bank of Toronto | | 70 84 | | |
| Sept. — | Interest on overdraft | | 54 10 | 43 | 44 |
| | DEBENTURE ACCOUNT. | | | | |
| July —, '92 | Issued 35 bonds for \$1,000 each | 35,000 30,000 | | | |
| 1 | To mature in 1900, 5 bonds, \$1,000 each | | | 5,000 | 00 |
| | PREMIUM AND INTEREST. | | | | |
| July 2 Dec. 30 | Interest on 10 bonds for half year at 5 per cent | | 00 | 375 | i 00 |
| | Engineer's Fres. | | | | |
| May 1 Mar | R. P. Fairbairn, surveyor's plan for government patents Kivas Tully, professional services | | 00 | 100 | 6 00 |

63 VICTORIA, A. 1900

COMPARATIVE STATEMENT of Goods arrived per Steamer and Sailing Vessel for years 1898 and 1899.

| Description of Goods. | | 1898. | 1899. |
|-----------------------------|----------|--------------------|----------------|
| General merchandise | tons. | 16,635 | 18,918 |
| Coal | ", | 161,038 | 187,715 |
| | cords. | 246 | 109 |
| | toise. | $1,932\frac{1}{2}$ | 2,909 |
| Building stone | tons. | 595 | 523 |
| | parrels. | 1,810 | 4,472 |
| | boxes. | 15,458 277,710 | 4,271 |
| | bags. | 211,110 | 403,743 682 |
| Fire bricks | | 100,900 | 65,000 |
| Common bricks | | 956,000 | 468,000 |
| Irain | oushels. | 37,890 | 54,030 |
| Sheep, hogs and calves | | 14 | 3 6 |
| Horses, cattle and vehicles | | 136 | 183 |

COLIN W. POSTLETHWAITE.

Harbour Master.

FORTY-NINTH ANNUAL REPORT.

To the Commissioners of the Harbour of Toronto.

GENTLEMEN,—I have the honour to submit my annual report for the year 1899. The harbour was clear of ice on April 8th, having been frozen over for 116 days.

The ice formed on December 28th, fourteen days later than last year.

The first arrival for the season was the ss. Lakeside, with passengers and cargo from St. Catharines on March 30th. The last to arrive was the Rover, with a load of stone, on December 18th.

The number of arrivals at this port during 1899 is 3,648, an increase of 255 as

compared with 1898.

| | 1898. | 1899. | Increase. | Decrease. | Tonnage 1898. | Tonnage 1899. |
|--------------------------------|-------|-------|-----------|-------------|------------------|------------------|
| Propellers loaded | 412 | 376 | | 36) | | |
| " light | 35 | 30 | | 5 ∫ | 119,522 | 118,468 |
| Steamers loaded | 2,183 | 2,357 | 174 | • } | 874,424 | 923,265 |
| " light Sailing vessels loaded | 746 | 876 | 130 | 3 ∫ | • | 020,200 |
| light | 13 | 8 | 100 | 5 } | 78,546 | 99,149 |
| | 3,393 | 3,648 | | | 1,072,498 | 1,140,882 |

The trade of this port, therefore, is over two and a quarter million tons, registered. There are 66 vessels wintering here this season, viz., 19 steamers, 14 schooners, 11 propellers, 11 steam launches, 8 sailing yachts and 3 dredges, in all representing about 12,207 tons.

Cash receipts from all sources, including cash on hand from last year, amount to \$18,869.41.

Expenses of all kinds amount to \$13,242.84, leaving a cash balance of \$5,626.27. Coal receipts this year by vessel are: anthracite, 158,957 tons and bituminous, 28,758 tons, in all 187,715 tons, being an increase of 26,677 tons over last year. This is the heaviest importation by vessel since 1873 and is attributable in some measure, perhaps, to the difficulty of obtaining railway cars for this class of freight, resulting to the advantage of vessel owners and mariners generally. The total quantity of coal

imported by vessel and rail according to returns from the custom-house is anthracite, $36\overline{5},514$ and bituminous, $359,972\frac{1}{2}$, total $725,486\frac{1}{2}$, as against 662,680 tons in 1898.

The fruit crop has been a good one this year, resulting in a large increase in packages carried. A new fruit market has been opened at Grimsby this season. It

has been found to be a good fruit centre and shipments have been large.

Dredging has been light this year but sufficient to keep open all channels leading to the coal docks. The city sand pump was employed for a few days at the Queen's wharf removing the deposit from the Bathurst Street sewer, but being needed elsewhere it was very shortly taken away and did not return. Dredging will be required here in the spring.

The highest water during the year was 15 inches above zero on June 4, the lowest was 12 inches below zero on December 6th. Average for the year, 2 inches above zero.

The lamps at Queen's wharf were lighted for the first time on April 4th, and discontinued on December 9th.

The buoys were placed out on May 1st, and taken up on November 29th.

The Government Engineer in charge of the harbour works at the eastern entrance reports as follows;

'The bar that had formed during the past winter south of the eastern entrance was again removed, and the channel south of the west pier for 850 feet was dredged the full width between the piers, giving a depth of water of 17 feet 6 inches below zero on the harbour gauge at the Queen's wharf.'

The fog horn was sounded on nineteen days, viz., once in April, seven times in

May, twice in June, once in July and eight times in October.

On November 22nd the Commissioners' elevator at the Queen's wharf was destroyed by fire. It was partially insured and should the present lessees, the Canadian Pacific Railway require it, the elevator will be rebuilt. It is a satisfaction to record that the incendiary was caught, convicted and sentenced to seven years in the Kingston Penitentiary, all within a month.

On February 21st a deputation composed of the Chairman, the Harbour Master and the Engineer in company with the Mayor and representatives of the council, also the president of the Board of Trade and representatives of the marine section of that board, had an interview in Ottawa with the Hon. the Minister of Public Works for the purpose of asking aid from the Government towards improvements in the Toronto harbour. The views expressed by the deputation were favourably received by the Hon. the Minister and subsequently the sum of \$50,000 was placed in the estimates for diverting the current of the Don into Ashbridges Marsh and so through to the lake, and the Government Engineer, Mr. Temple, was instructed to prepare plans for the It is earnestly hoped that this most important work will be pushed forward with all celerity, for it is idle to contemplate any comprehensive scheme for deepening the harbour until this most fruitful source of all the trouble is permanently removed.

The precipitation for the year per returns from the observatory is as follows: rain 25.795 inches, snow reduced to water, 3.180 inches. Total 28.975 inches, or two inches less than last year. This shortage in the rain fall doubtless is the cause of the low levels in Lake Ontario, to be still further lowered, no doubt, by the recent opening of

the canal at Chicago, connecting Lake Michigan and the Mississippi River.

I am, gentlemen,

Your obedient servant,

COLIN W. POSTLETHWAITE,

Harbour Master.

TORONTO, January 4th, 1900.

SIR,—I have the honour to report that the following quantities of dredging were done at the wharfs, Mr. W. E. Phinn, contractor, at the rate of 12c. per cubic yard.

| | Cubic Yards. |
|------------------------------------------|--------------|
| Medler & Arnot's Wharf, and entrance | 3,570 |
| Elias Rogers Co.'s Wharf, and entrance | 8,295 |
| Princess Street Wharf, and entrance | |
| Electric Light Co.'s Wharf, Scott street | 3,730 |
| West Market Street Slip | |
| | |
| Total | 20,782 |

The sand pump belonging to the city worked a few days at the western channel in June, removing a portion of the sand and sewage deposited by the Bathurst Street drain. Deputy Harbour Master Hall reported that after the dredge was removed, a vessel drawing 8 feet 4 inches of water, grounded in the channel, near the outlet of the drain. Additional dredging should, therefore, be done by the city to complete the work as originally required. There was not any dredging done on the Range course, but will probably be required this year, as the water level in Lake Ontario continues low, at present 7 inches below zero. Sundry repairs were made to the planking on the front of the wharf, and the planking of the breakwater was renewed. The light keeper's house was painted, also the Red and Range light houses, and the Storm Signal House.

I remain,

Your obedient servant,

KIVAS TULLY,

Engineer.

A. B. Lee, Esq., Chairman Toronto Harbour Commissioners.

APPENDIX No. 4.

QUEBEC HARBOUR COMMISSIONERS' REPORT FOR THE YEAR 1899.

(Under the Quebec Harbour Commissioners' Act, 1899.)

QUEBEC, January 2, 1900.

To the Honourable Sir L. H. Davies, K.C.M.G.
Minister of Marine and Fisheries,
Ottawa.

Sir,—In compliance with the requirements of the Quebec Harbour Commissioners' Act, 1899, I have the honour to report as follows on the doings of the Quebec Harbour Commissioners for the year 1899.

CHIEF ENGINEER'S REPORT.

The annexed report (marked 'A') from the Chief Engineer, Mr. St. George Boswell, conveys information in regard to the progress of the construction of the new wharf on the river front, and the various additions and repairs made to the Louise Docks and other properties of the commissioners during the year.

WHARFINGER'S REPORT.

The annexed report (marked 'B') from the Wharfinger, Mr. P. Flynn, gives the usual information regarding the number of vessels using the Louise Docks and the railway traffic over this portion of the Commissioners' property during the year 1899.

HARBOUR MASTER'S REPORT.

The annexed report (marked 'C') from the Harbour Master, Mr. James C. Sullivan, gives information in regard to the opening and closing of navigation in the harbour, formation of ice, disposal of ballast, &c. During the past season no ballast was dumped into the river, all that was brought here being utilized by the Commissioners in their new works.

At St. Thomas, the Commissioners continue to employ the Harbour Master there to supervise the discharge of ballast, and to see that the regulations are strictly obeyed.

PREMISES LEASED.

Renewals for one year were granted to the following tenants: W. Carrier, store No. 11; E. M. Lennon & Co., stores Nos. 7 and 8; John S. Thom, office in store No. 10; Quebec Coal Co., Reynar's wharf; A. R. Pruneau & Co., Marmette's wharf.

Renewals of five years were granted to the Grand Trunk Railway Company for their wharf, and to Madden & Son for the coal yard they occupy on the embankment.

In these two last cases provision was made that should the Commissioners wish to extend the wharf frontage further up the river, the lease to the Grand Trunk can be cancelled after due notice being given, and in the case of Madden & Son, if commissioners require the ground for other purposes than that of a coal yard, they could cancel Madden & Son's lease.

The coal shed on Wellington wharf, formerly occupied by G. M. Webster & Co., was leased to Whitehead & Turner, and East India wharf and store No. 5 (vacant last year) was leased to E. C. Benson and Jos. Gingras.

An extension of frontage was given in the coal space, Inner Basin, to G. M. Webster & Co., and they were also allotted another space on the north side of the embankment

for a hard coal yard.

Provision was also made in the leases to G. M. Webster & Co. for cancellation if the water frontage or ground on north side of embankment was required for other purposes.

Store No. 4, on East India wharf, which was under lease to Mr. John Flood, was badly damaged by fire. It was insured in the Commercial Union Assurance Co. for \$4,000, and the assessed damages of \$1,897 were promptly paid by that company.

Properties that remained unlet during the year were: Atkinson's wharf, and part

of store No. 10, and stores No. 4 and 6, East India wharf.

COLD STORAGE WAREHOUSES.

The two large stores Nos. 1 and 2, situated at the eastern end of the Pointe-à-Carcy wharf, were, in 1896, leased to the Quebec Cold Storage and Warehouse Company, who have built an other large warehouse, No. 3, and office between the two former Nos. 1 and 3 are used for ordinary storage; but the company has, at great expense, fitted up No. 2 as a cold store for dairy products, fruit, &c., by insulating with non-conducting substances the walls and floors of the building and of the several rooms into which it is divided, and has installed in the engine room built at the western end, a Linde ammonia refrigeration plant driven by electric motors

The cold air that is generated in a special room is driven by fanners through the shafts to the several rooms, thus regulating the temperature to suit the goods stored therein, and also ventilating the rooms. In a similar manner in winter, warm air is

driven into certain rooms to enable the correct temperature to be maintained.

The Canadian Pacific Railway tracks run close alongside all the stores, thus affording the greatest facilities for receiving goods, and also for shipping by ocean steamers.

GREAT NORTHERN RAILWAY COMPANY'S GRAIN ELEVATOR.

By a notarial deed passed on June 30th, 1899, the Commissioners granted a site to the Great Northern Railway Company for a grain elevator of not less than one 1,000,000 bushels, capacity, and also guaranteed the interest to the extent of \$200,000 for twenty years, at three per cent per annum, on bonds that will be known as Quebec Grain Elevator Bonds, to assist the company to build their elevator. Commissioners also granted to same company exemption from harbour dues for a period of five consecutive years to the first ocean steamship company running under traffic agreement with the Great Northern Railway Company, which will make Quebec its terminal point and load here full cargoes of grain and other products from Parry Sound or other points on the Great Northern Railway.

These concessions, which required parliamentary sanction, received the Royal Assent on August 11th, 1899, and are now known and entitled: 'An Act respecting

the Quebec Harbour Commissioners,' 62-63 Victoria, Chapter 35.

WORK SHOPS' SITES.

Commissioners have granted under a long lease to the Great Northern Railway Company sites on the northern front of the embankment, where that company will erect extensive work shops for the building and repairing of their rolling stock, and where a large number of hands will be constantly employed. It is expected that the work of building will be commenced early in the spring.

REPAIRS TO PROPERTY.

Careful attention has been paid, during the year, to the various properties of the Commissioners, to maintain and bring them up to a first-class condition. Details will be found in the chief engineer's report.

REVISION AND CODIFICATION OF LAWS AND BY-LAWS.

Commissioners are pleased to say that the revision of their laws is now completed, their Act (the Quebec Harbour Commissioners' Act, 1899) having passed both Houses. It was assented to and came in force on July 10th, 1899. The by-laws are now being carefully gone over and revised, and it is hoped that they will be completed and ready for sanction before the opening of navigation.

BY-LAW ABOUT EXCESSIVE WHISTLING.

Under their new Act, the Commissioners submitted to and had approved by His Excellency the Governor General in Council, a by-law to prevent and control the excessive use of their steam whistles by vessels in passing through the harbour of Quebec.

IMPROVEMENTS ON SOUTH SIDE OF THE HARBOUR.

By a resolution passed at a meeting held on May 22, \$50,000 was appropriated for improvements on the south side of the harbour, out of the amount of \$350,000 authorized by 61 Victoria, Chapter 48, and 62-63 'Victoria, Chapter 35 (the Harbour Commissioners' Act, 1899).

TARIFF CHANGES.

Commissioners have reduced the moorage charges on vessels using their docks and wharfs, and have also reduced the top wharfage charges on grain, coal, coke, salt, cement, earthen-ware, drain-pipes, fire-brick, gypsum, marble and all other stones, phosphates, sand, slate, iron-ore, whiting and scoria blocks. Wood pulp has been made free of top wharfage.

EXPENDITURE ON CAPITAL ACCOUNT.

Particulars of the expenditure on capital account will be found in a statement accompanying this report. In this it will be seen that, practically, all the expenditure on this account has been for the work of extending the Pointe-à-Carcy wharf. Thus, out of a total expenditure of one hundred and twenty-two thousand, four hundred and eleven dollars and sixty-eight cents (\$122,411.68) on capital account, there was for the Pointe-à-Carcy wharf extension an expenditure during 1899 of one hundred and twenty-one thousand five hundred and three dollars and sixty-seven cents (\$121,503.67). Chief Engineer's report gives details as to the progress of this work, particulars as to which was given in the report of 1898.

REVENUE AND EXPENDITURE.

The Commissioners' revenue for 1899 was seventy-seven thousand three hundred and forty-eight dollars and six cents (77,348.06), an increase of three thousand and seventy-one dollars and fifty-nine cents (\$3,071.59), over that of 1898, and the expenditure (including interest on first preference bonds) was forty-four thousand, one hundred and eighty-eight dollars and seven cents (\$44,188.07) leaving a surplus, which includes

the amount charged to the Department of the Interior, for the ground occupied for immigration purposes, of thirty-three thousand, one hundred and fifty-nine dollars and ninety-nine cents (\$33,159.99).

As included in the receipts of 1898, there was an exceptional item of \$1,890 for premiums on first preference bonds sold. This, if deducted from 1898, would make the receipts and earnings for 1899 four thousand nine hundred and sixty-one dollars and fifty-nine cents (\$4,961.59) better than those of 1898.

The principal increases over 1898 have been in Louise Docks earnings, \$6,233.31; customs receipts, \$896.36; and the principal decreases in interest and interest and premiums received on bonds, \$3,006.61. Atkinson's wharf and the two large stores on East India wharf having remained unlet during 1899, there was a falling off in the revenues of the properties outside of the docks of \$1,061.54.

GRAVING DOCK.

The Commissioners are pleased to note that the contract has been awarded and that the work of lengthening the Lévis Graving Dock is to be at once commenced. While the Commissioners are satisfied that the lengthening of this dock will be a great boom to the trade of the St. Lawrence, and have constantly urged it upon the honourable the Minister of Public Works, they believe the present tendency of the trade is to build vessels of such length and beam, that the Lévis Graving Dock even as lengthened will not be able to accommodate them.

The Commissioners have therefore strongly urged upon the honourable the Minister of Public Works, to build a second graving dock in Quebec, one that will be capable of meeting this development in large steamers, and able to accommodate any vessel now affoat or likely to be affoat for some years to come.

ACTING CHAIRMAN.

During the absence in Europe of the Chairman (Mr. J. B. Laliberté) Mr. Narcisse Rioux was the presiding officer, having been unanimously elected by the board as acting-chairman.

ICE CUTTING.

Forty-two thousand four hundred and fifty (42,450) blocks of ice, all for local use, have been cut during the winter of 1899-1900, a decrease of twelve thousand six hundred and nine (12,609) blocks as compared with the cut of the previous year.

Care has been taken that all the ice that is cut for domestic uses is perfectly pure, and taken from localities in the harbour as have been selected after an analysis of the ice had been made.

To this report are annexed the various statements conveying the information yearly forwarded to your department in connection with the harbour, as also a complete statement of the Commissioners' account for the year.

I have the honour to be, sir,

Your most obedient servant,

JAS. WOODS,

Secretary-Treasurer.

A.

HARBOUR ENGINEER'S OFFCE, QUEBEC, January 2, 1900.

James Woods, Esq.,
Secretary-Treasurer,
Harbour Commission, Quebec.

SIR,—I have the honour to submit herewith the following with reference to the various works in connection with the maintenance and improvement of the Harbour of Quebec, executed during the year 1899.

NEW WORK.

SOUTHERN EXTENSION TO POINTE-A-CARCY WHARF.

The construction of the foundation cribwork for this pier was proceeded with during the winter of 1899, during which time five blocks, aggregating a length of 630 feet, were prepared. The first of these blocks, for the river face of the pier, was sunk in position on May 24 last, the second one on the 29th of the same month, and the third and last on June 22. Of the two blocks for the inner or pond face, prepared during the winter, the first was sunk in position on August 8, and the second on August 26. There still remains an interval of 35 feet to be closed by cribwork, in order to complete this inner face and connect it with the Pointe-à-Carcy wharf. This space had to be left open in order to permit the entrance of dump scows used for filling the area contained between the inner and outer lines of cribwork. As this filling has now been completed, as far as it can be done by dump scows, this space may be closed early next season. The superstructure of this pier has been completed, with the exception of that portion which it was necessary to defer until the work of the dump scows had been completed, and the substructure closing entrance to area within cribs placed in position.

The elevator dredge No. 8 was placed at the Commissioners' disposal by the Department of Public Works, on July 7 last; and from that date until August 5, was employed preparing a foundation for the inner line of cribwork blocks of the south extension to Pointe a Carcy wharf. The dredge was then removed to the wet dock, where it continued at work, grading down the basin until November 17, on which date it was removed and taken in charge by the Department of Public Works.

The Commissioners' dredge was employed, during the early part of the season as a steam crane for handling timber used in the construction of the cribwork. On August 5 this dredge was removed to the custom-house pond where she worked excavating the foundations for the inner line of cribwork until August 26, after which she was removed into the wet dock, and at first engaged excavating about 100 tons of coal that had fallen from the cross wall into the dock, subsequently at grading in various parts of the Basin. During the latter part of the season up to December 2 the dredge was employed deepening the custom-house pond along the face of the inner line of the new cribwork. After this date until December 7, she was employed at the removal of a sunken scow at the western end of the wet dock.

To provide the site for a grain elevator, applied for by the Great Northern Railway Co., a portion of the Commissioners' pond has been inclosed by cribwork retaining wall, and the space so inclosed filled in up the level of the surface of the adjacent wharfs with materials furnished by carters.

The quay frontages and surface areas added to the Pointe-à-Carcy wharf by the works executed the past season are as under.

Quay frontage, river face, 350 feet, giving, with old frontage, a continuous river frontage of 580 feet; deep water quay frontage in custom-house pond, 300 feet; quay frontage at elevator site, 170 feet. Surface area of pier extension south of Pointe-à-Carcy wharf, 38,000 superficial feet; surface area of filled portion of custom-house pond, 46,000 superficial feet.

PRINCESS LOUISE EMBANKMENT.

At the request of the collector of customs, a part of the old immigration building on breakwater has been partitioned off and fitted for the inspection of first-class passenger baggage.

One section of this building, that is to say the part formerly used as a disinfecting establishment, has also been repaired, and is now used by the Customs Department as

a landing shed for bonded freight.

The north-east and south west corners of the breakwater have been rebuilt, an extra cast iron mooring post put in, and repairs made to the face of the wharf.

An additional length of coal platform has been laid down on the cross-wall, one of the Messrs. Connolly's Bros. derricks having been removed for the purpose of providing the required additional space.

The new freight shed on breakwater has been painted, and the metallic covering

of the two cross-wall sheds has been repaired and the roofs painted.

The railway tracks and property generally have been maintained in good order, and minor repairs effected when required.

GENERAL.

The foundation of store No. 11 has been rebuilt on the north and west sides of building.

New fenders have been placed along the wharf frontage leased to the Grand Trunk

Railway Co.

The part of the East India wharf, at the eastern end of Arthur Street, has been filled in, planked, and fenced off from the street.

The roof of coal shed on James Street has been repaired, and the required minor

repairs to the Commissioners' various properties effected.

The cross wall draw-bridge was operated for the first time on April 14, and for the last time on December 9.

The entrance gates to the wet dock were shut for the first time on May 3, and

remained in operation until November 22.

The entrance gates to the wet dock were not opened for the afternoon tide of September 15 and 28; the tide, on the above dates not having risen sufficiently for the purpose.

I have the honour to be, sir,

Your obedient servant,

St. GEORGE BOSWELL, Chief Engineer.

B.

HARBOUR COMMISSIONERS' OFFICE, QUEBEC, January 2, 1900.

JAMES WOODS, Esq.,

Secretary-Treasurer.

Harbour Commissioners, Quebec.

Sir,—I have the honour to submit the following with reference to the traffic of the Louise Docks and Wharfs.

During the past season, forty-six (46) ocean mail steamers, one hundred and thirty-six thousand, eight hundred and fifty-eight (136,858) tons register, used the docks for landing immigrants, baggage, &c., and six hundred and fifty-two (652) tons of western freight.

Sixty (60) steamships of one hundred and sixty-four thousand one hundred and eighty-six (164,186) tons register, landed eight thousand four hundred and twenty-seven (8,427) tons of general cargo.

Six (6) steamships of twelve thousand eight hundred (12.800) tons register landed one thousand eight hundred and forty-four (1.844) tons of cement.

One (1) steamship of one thousand five hundred and forty-four (1,544) tons register landed one thousand seven hundred and fifty-nine (1,759) tons of railroad iron.

Fourteen (14) steamships of thirty-nine thousand two hundred and fifty (39,250) tons register landed three thousand seven hundred and seventy-six (3,776) tons of salt.

Two (2) steamships of two thousand five hundred and forty-seven (2.547) tons register landed three thousand four hundred and fifty-three (3,453) tons of bricks.

Nine (9) sailing ships of two thousand five hundred and eighty-two (2.582) tons register landed two thousand one hundred and twenty-three (2.123) tons molasses.

Four (4) barges of three hundred and eighty-two (382) tons register landed four

hundred and eighty-two (482) tons of sugar.

Tweaty-six (26) steamships of twenty-nine thousand three hundred and thirty-nine (29,339) tons register landed sixty thousand nine hundred and forty-four (60,944) tons

Three (3) sailing ships of three thousand eight hundred and twenty four tons (3.824) register landed four thousand three hundred and seventy (4,370) tons of coal.

Fifteen (15) lower ports steamships of one thousand and eighty-five (1,085) tons

register landed seven hundred and five (705) tons coal.

One hundred and thirty one (131) barges and schooners of eleven thousand six hundred and forty (11,640) tons register landed eighteen thousand nine hundred and ninety (18,990) tons of coal.

Six (6) schooners of four hundred and sixty-nine (469) tons register landed seven

hundred and twelve (712) tons of cut stone.

Twenty (20) lower ports steamships of fourteen hundred and forty (1,440) tons register landed three hundred and fifty-seven (357) tons of freight.

Twenty (20) schooners of one thousand and seventy (1,070) tons register landed

twenty thousand nine hundred and forty-one (20,941) railway ties.

Seventeen (17) steamships of fifty-six thousand four hundred and twenty-four (56,424) tons register shipped four thousand nine hundred and sixty (4,960) tons of wood pulp.

Seventeen (17) ferry steamers of four thousand two hundred and thirty-three

(4,233) tons register shipped sixteen hundred and forty (1,640) tons of wood pulp.

Six (6) steamships of twenty thousand four hundred and eighty (20,480) tons register shipped three thousand four hundred and fifty-eight (3,458) heads of cattle, or one thousand and twenty-six (1,026) tons.

Twenty (20) lower ports steamships of fourteen hundred and forty (1,440) tons

register shipped eight hundred and ninety-four (894) tons of general cargo.

Fifty-four (54) steamships of one hundred and twenty-three thousand nine hundred and twenty-six (123,926) tons register loaded part cargoes of timber and deals.

One (1) sailing ship of four hundred and ninety-two (492) tons register loaded part cargo of deals.

Eighteen (18) steamships of twenty-nine thousand nine hundred and fifty (29,950)

tons register loaded full cargoes of timber and deals.

Three (3) sailing ships of two thousand seven hundred and sixty-seven (2,767) tons

register loaded full cargoes of timber and deals.

Fifteen (15) steamships of forty-five thousand and sixty one (45,061) tons register

shipped four hundred and forty-two (442) tons of freight.

The surface traffic has required the employment of five thousand nine hundred and twenty cars (5,920), being an increase of two thousand five hundred and thirty-seven (2,537) cars over the previous year.

During the past season, the different ocean mail steamers landed eighteen thousand one hundred (18,100) steerage passengers at the Immigration Station, Louise Docks, who were forwarded to their future homes by the Canadian Pacific Railway Company.

No record has been kept of cabin passengers.

The following vessels who had suffered accidents on their outward trip were accommodated in the Louise Basin, where they, in some cases, having discharged the

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whole or a portion of their cargoes, after repairs were made, reloaded and proceeded to sea:---

SS. Ramilies,
Merrimac,
Philadelphian,
Almerian,
Gallia,
Ella Sayer,
Parisian.

One steamer, the ss. Manchester Importer, returned to take off deck load of deals and then proceeded to sea.

Four hundred and six (406) barges and one hundred and fifty-six (156) schooners paid moorage during the season.

There are wintering on the Louise Docks thirty-five thousand (35,000) Quebec

standard of deals.

There are wintering in the upper and lower basins:—

Seven (7) passenger steamers; two (2) steamships; two (2) government steamers; three (3) lightships; fifteen (15) schooners; seventeen (17) lighters; eleven (11) canal boats; sixteen (16) tug boats; four (4) steam lifting schooners; six (6) pontoons; one (1) brig; one (1) steam dredge.

The freight sheds on the cross-wall and breakwater are utilized during the winter months for storing grain, salt, &c., which the owners are obliged to remove before the

opening of navigation.

The docks are used, from November 20, for wintering a large number of vessels of various tonnage, where they find safe quarters to the opening of navigation.

I have the honour to be, sir,

Your most obedient servant,

P. FLYNN,
Wharfinger.

C.

HARBOUR COMMISSIONERS' OFFICE, QUEBEC, January 2, 1900.

JAMES WOODS, Esq.,

Secretary-Treasurer,

Harbour Commission, Quebec.

SIR,—I have the honour to submit the following report with reference to the harbour of Quebec for 1899:—

Navigation in the harbour was open all winter.

The ice in the tidal basin and wet dock broke up on April 15.

The ice in the St. Charles River and north channel broke up and cleared on April 20.

Local navigation from the lower St. Lawrence was opened on April 5 by schooner St. Laurent.

Steam schooner Marie Josephine left the harbour for the lower St. Lawrence with a general cargo on April 6.

Revenue cutter Constance left the harbour for the lower St. Lawrence on April 7. The mail tender Rhoda left the harbour for Rimouski on April 18 on mail service.

The first ocean steamer, s.s. Savoy, left the harbour on April 22 for Anticosti with a general cargo.

The first ocean freight steamers from the Mediterranean, s.s. Fremona and St. Mark, arrived in the harbour on April 22, and put into Indian Cove to await the passing down of the ice in the river between Quebec and Montreal.

The first ocean mail and passenger steamer, s.s. Dominion, arrived in the harbour

on April 23.

The ice in the St. Lawrence between Quebec and Montreal passed down on April 26.

All local pontoons were placed in the harbour on April 28.

The first ocean steamer with coal, s. s. Rydal Holme, arrived in the harbour on April 26.

The first Richelieu and Ontario Navigation Co.'s steamer left for the Saguenay on

May 3.

The first sailing vessel from sea, barque *Hefhi*, arrived in the harbour on May 13. The limits of the clear water space opposite the city are indicated at night by red lights, and in day time by sign boards.

Ten (10) ballast vessels discharged two thousand eight hundred and fifteen (2,815)

tons of ballast into the Commissioners' properties, subdived as follows:—

| Louise Basin (siding) | 310 |
|-------------------------------------------|---------|
| Louise Dasin (siding) | . 310 |
| Louise Basin (new works) | . 835 |
| Pointe-à-Carcy and new wharf (new works). | . 1,670 |
| | |

The cost of obtaining this ballast has been three hundred and fifty-six dollars (\$356), or about \$1.22 per long ton.

No ballast has been thrown into the river during the past season.

The harbour regulations have been distributed to vessels using the harbour during

the season of navigation and the carrying out of them attended to.

In addition to the routine work of the harbour and office, two hundred and fifty-four (254) sea-going steamers have been berthed in the Louise docks, breakwater and Pointe-à-Carcy wharfs, an increase of sixty-one (61) steamers as compared with last year.

Twenty-one (21) sea-going sailing vessels have been berthed at the same wharfs, a

decrease of fifteen (15) vessels as compared with last year.

H. M. S. Crescent, Talbot, Pearl, Psyche and Quail arrived on September 11 and anchored in the harbour.

The last sea-going sailing vessel, barque Strathmuin, left for sea on October 22.

The last ocean steamer with coal, s. s. Polino, arrived on November 25.

The last ocean, freight steamer, s. s. Mayflower, arrived in the harbour on November 23.

The last passenger steamer of the Richelieu and Ontario Navigation Co., Saguenay, arrived from Saguenay and way ports on November 14.

The last passenger steamer of the Richelieu and Ontario Navigation Co., Quebec, left

for Montreal on November 26.

The last ocean, mail and passenger steamer, s. s. Lake Ontario, left the harbour on November 23.

The last ocean passenger steamer, s. s. Laurentian, left the harbour on November 25.

The last ocean, freight steamer, S. S. Mayflower, left the harbour on November 30, at 10.45 p. m.

The ice in the St. Charles River formed on December 27.

Up to January 1 the ice in the north channel had not formed.

Steam schooner Marie Joséphine left the harbour for Murray Bay with general

cargo on December 10, and returned on December 12.

Notices have been posted in suitable localities warning parties from discharging rubbish of any kind into the harbour, docks, &c., and every precaution is being taken to prevent any violation of the regulations of the Commissioners in that repect.

I have the honour to be, sir,

Your obedient servant,

JAMES C. SULLIVAN,

Harbour Master.

63 VICTORIA, A. 1900

| | cts. | STO SE | 1909. | | |
|----------------------------------------------------------------|-----------------------------------|-------------------------------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| Dec. 31 To Tonnage dues Import " Export " | 12,343 84 3,915 93 4,547 78 | Office and the second | Dec. 31 By | - | |
| To Property Earnings- | 2,200 41 | 23,094 01 | | Schooling reports salaries Bonus of one year salary to Mr. Jos. F. Golden, wharfinger, upon his retirement from office | |
| Louise docks, wharves and stores under lease | 36,966 79 | | | Legal expenditure Property expenditure, taxes, repairing and main- | : |
| Due by and charged to the Dominion | | | | taining Louise docks, wharves and stores | |
| | 13,845 48 | 20 010 07 | | | |
| | | 00,016 21 | | Harbour master's service | |
| To Beach and Deep Water Lots. | : | 1,273 69 | | Bonus Pilot Chouinard | : |
| To Interest Account— Twelve months interest on account cur- | | | | Stationery | |
| The Sand in La Banque Nationale | : | 2,135 35 35 35 35 | | Report and annexures for 1898. | |
| | : | ! | | : | : |
| | | | | Bell Telephone Company. Guarantee Co. for sectreas, and book-keeper. | |
| | | | | Removing snow | |
| | | | | Examining apprentice pilots expenses, steno- | |
| | | | | Dr. Wilf. Beaupré, examining old pilots | |
| | | | | Harbour master St. Thomas, reporting ballast | |
| | | | | Vessels. | : |
| | | | | sundries. | : |
| | | | | Six months interest to January 1, 1900, on | |
| | | | | \$150,000 of First Preference bonds at 4 p.c. | : |
| | | | | Camples of receipts from Customs and some | |
| - | | | | ings of Louise docks, wharves and stores | |
| - | | | | | |
| | - | | | | 19,314 51 |
| | | | | Due by and charged to the Department of the | |
| | | | | d for | 12 845 48 |
| | | | | THIRD REPORT TO THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE THE TORSE | or orogan |
| | | 77 348 06 | | | |
| | | | | | |

| To Amount at credit of grantees, beach and deep Aug 815 90 Receiver General | 55,461 87 3,612,802 42 153,000 00 1,897 00 546,513 96 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| ter wharf Carcy wharf In a | 58 93 546,513 96 |
| Carcy depening 8, 215 improvementa, River St. Charles 3,119,058 improvementa, River St. Charles 3,119,058 improvementa, River St. Charles 3,119,058 improvementa, River St. Charles 3,119,058 improvementa, River St. Charles 3,119,058 improvementa, River St. Charles 1,10,941 hand 785 38 Banque Nationale 31,770 58 5,609 cane dredge 5,105 cane dredge 3,674 institute 3,674 institute 3,474 | |
| hand | |
| rmiture 3,674 was account 394 | |
| Anchor | |
| 1,725 11,725 11,725 53 64 83 83 83 83 81,8able 572 | |
| Suspense Account— Rents for November and December | |
| 4,413,114 18 | 4,413,114 18 |

We hereby certify that we have examined the books and vouchers of the Quebec Harbour Commission for the year 1899, and that that balance sheet as found in the Journal folios 570, 571, 572 and 573 is correct.

L. A. BERGEVIN,

Auditors.

ARTHUR E. SCOTT,

Auditors.

| Date. | |
|--------------|---|
| oţ | |
| Sheet | |
| Balance | |
| per | |
| Liabilities, | |
| | |
| and | |
| Assets | |
| % | • |
| STATEMENT | , |

| 1899. | Assets. | es cts. | se cts. | 1899. | LIABILITIES. | s cts. | s cts. |
|---------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------|--------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|--------------|
| Dec. 31 | r wharf srcy wharf nk " | 225,563 08 288 907 40 48,552 99 15,740 32 86,541 85 | | Dec. 31. | Quebec harbour debentures. Receiver General Fix Preference bonds. Six months interest on First Preference bonds to Jan. 1, 1900. Outstanding accounts. | 3,612,802 42 43,380 00 150,000 00 3,000 00 58 93 | 2 MM 941 95 |
| | Atkinsons Reynar's | 9,918 29 | 726,327 13 | | Surplus, composed as follows— Beach and deep water lots | 55,461 87 | 00 117 000 0 |
| | Harbout Intervements— River St. Charles Deepening of the inside face of Pointe- à-Carcy wharf | 3,119,058 98 86,275 36 | 3.205.334.34 | | Score store I.O. 4 | 546,513 96 | 603,872 83 |
| | Harbour Improvements—River front. Breakwater curve, &c Pointe-à-Carcy extension. | 19,210 22 151,730 81 | 170,941 03 | | | | |
| | Cash— On hand In La Banque Nationale. | 785 38 31,770 58 | 32,555 96 | | | | |
| | In re Peach and Deep Water Lots—Capital at debit 'sundries' | 34,644 00 6,171 90 984 24 | 41,800 14 | | | | |
| | Rents, Wharfage, &c.— Due by sundries, as per balance sheet. Rents for Nevember and December | 8,453 76 1,554 14 | 10,007 90 | | | | |
| | Dominion Government— Unsettled claims | : | 195,492 55 | | | | |
| | Hopper barge | : | 5,609 28 | | | | |
| | Steam crane dredge | | 5,105 21 | | | | |

11b

| Tools Tools Pile driver Office furniture Bills receivable | 2,537 56 2,737 26 33 70 3,674 97 672 96 | |
|-----------------------------------------------------------|-----------------------------------------------------|--------------|
| | 4,413,114 18 | 4,413,114 18 |

We hereby certify that we have examined the books and vouchers of assets and liabilities of the Quebec Harbour Commission Secretary-Treasurer.

L. A. BERGEVIN, ARTHUR_E. SCOTT, for the year 1899, and we have found the same in all particulars the true position of the trust at that date.

QUEBEC, February 3, 1900.

QUEBEC, January 2, 1900.

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QUEBEC, January 2, 1900.

EXPENDITURE ON CAPITAL ACCOUNT FOR THE YEAR 1899.

HARBOUR IMPROVEMENTS, RIVER FRONT.

| Point-à-Carcy extension\$ 121,488 67 | | |
|-----------------------------------------|---------|------------|
| Breakwater, curve, &c | | |
| | 121,503 | 67 |
| Harbour improvements, River St. Charles | 84 | 00 |
| Ottawa cove | | 04 |
| Office furniture | | 00 |
| Tools account | 70 | 27 |
| Pile driver | 33 | 70 |
| Steam crane dredge | 50 | 00 |
| \$ | 122,411 | 6 8 |

JAS. WOODS,

Secretary-Treasurer.

QUEBEC HARBOUR COMMISSION.

| _ | 1898. | 1899. | Difference | e in 1899. |
|------------------------------|-----------|-----------|------------|------------|
| | \$ cts. | \$ cts. | \$ cts. | |
| Connage dues | 12,609 69 | 12,343 84 | 265 85 | Decrease. |
| mport " | 3,442 73 | 3,915 98 | 473 25 | Increase. |
| Export " | 3,858 82 | 4,547 78 | 688 96 | ۱,, |
| Iarbour " | 2,275 98 | 2,286 41 | 10 43 | ,, |
| roperty receipts | 45,640 50 | 50,812 27 | 5,171 77 | " |
| nterest | 1,591 93 | 2,135 59 | 543 66 | ., |
| Beach and deep water lots | 1,301 75 | 1,273 69 | 28 06 | Decrease. |
| Sundries | 4 80 | 32 50 | 27 70 | Increase. |
| nterest and premium on bonds | 3,550 27 | | 3,550 27 | Decrease. |
| | 74,276 47 | 77,348 06 | 3,071 59 | Increase. |

HARBOUR COMMISSIONERS' OFFICE.

Quebec, February 3, 1900.

To the Chairman and Commissioners, Quebec Harbour Commission.

Gentlemen,—We beg respectfully to report that we have audited the books and vouchers of the commission for the year 1899 and we are pleased to state that we have found everything perfectly correct and in very good order.

We beg to tender our sincere thanks to the secretary for his courtesy and all the

facilities possible which he has given us.

We have the honour to be, gentlemen, Your obedient servants,

> L. A. BERGEVIN, ARTHUR E. SCOTT.

> > Auditors.

APPENDIX No. 5.

BELLEVILLE HARBOUR COMMISSIONERS, REPORT FOR YEAR ENDED DECEMBER 31, 1899.

Belleville, January 16, 1900.

To the Honourable

The Minister of Marine and Fisheries
Ottawa.

SIR,—The Harbour Commissioners of the City of Belleville beg to submit herewith a statement of the receipts and expenditure in connection with the harbour for the year ending December 31, 1889.

The report of the harbour master for the year is also inclosed.

The larger portion of the amount under the heading of 'Harbour Improvement' was expended on the western embankment of the river. This embankment is now completed to its southerly end joining the boom piers.

It is expected that it will protect the land on the western side of the harbour from the floods and spring freshets and by confining the river at its mouth (as recommended by the Government engineers) materially lessen the effects of the breaking up of the ice in the spring.

The material used in this work was taken from the dredging done in the harbour during the early part of the summer. The dredge did some excellent work in removing obstructions and in deepening the western channel of the harbour.

I have the honour to be sir,

Your obedient servant,

GEORGE WALLBRIDGE.

Chair nan, Harbour Commissioners Belleville Ont.

STATEMENT of the Receipts and Expenditure of the Harbour Commissioners of Belleville, Ont., for the Year ending December 31, 1899. Dr.

| Receipts. | s cts. | e cts. | Expenditure. | e cts. | e cts. |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|----------------------------------|
| Harbour dues collected during the year, as per harbour master's report. Rent of small house on river bank for 10 months to Oct. 31, 1899. | 25 00 | 2,605 38 | Buoys—Placing, removing and painting Booms—Swinging and removing. Plans and surveys for the Department of Public Works. Ice cutting to relieve flooding | | 8 42 100 00 19 00 37 00 |
| Less paid out for repairs | 4 28 | 20 72 | Harbour Improvement— For completion of western embankment. | 1,025 65 | |
| Material— Received from the Bay of Quinté Bridge Co. for material from deedging | 39 00 5 00 | 4 | For repairs to island embankment | 1/9 60 | 1,205 30 4 65 |
| Journal of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer | | 3 | Salaries— Harbour master, 12 mos Tally clerk | 00 009 | 90 |
| | | | Office Expenses—Rent of office, storehouse and boathouse. Fuel (for office), \$4.50; repairs to boat, \$5.50. Stationery and postage, \$7.15; sundries, \$2.25 Travelling expenses Legal advice and papers. | 30 00 10 40 9 40 1 50 16 50 | 3 |
| | | | | | 67 80 |
| Balance on hand January 1, 1899 | | 2,670 10 850 76 | Balance on hand and in bank | : | 2,102 17 1,418 69 |
| | | 3,520 86 | | | 3,520 86 |
| | | | | | |

Dominion of Canada, Province of Ontario, County of Hastings.

To Wit:

In the matter of the Report of the Harbour Commissioners of the City of Belleville, for the year ended December 31, 1899.

- I, GEORGE WALLBRIDGE of the city of Belleville, in the county of Hastings, merchant, do solemnly declare that:
 - 1. I am chairman of the Harbour Commissioners of Belleville.
- 2. That annexed hereto is a statement of the receipts and expenditures of the Harbour Commissioners of Belleville for the year ending December 31, 1899.
 - 3. That the said statement is true and correct as therein set forth.
- 4. That nothing is wilfully omitted therefrom which should be stated therein, or improperly inserted therein, to the best of my knowledge, information and belief.

And I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath and by virtue of 'The Canada Evidence Act,' of 1893.

GEO. WALLBRIDGE.

Declared before me at the city of Belleville, in the county of Hastings, this 18th day of January, A.D. 1900.

G. MASSON,

A Notary Public.

Belleville, January 16, 1900.

To the Honourable

The Minister of Marine and Fisheries, Ottawa.

SIR,—The undersigned harbour master of the city of Belleville begs to submit the following report for the year 1899.

Navigation opened in Belleville harbour on April 18 and closed on December 9.

| Import dues | s on 14,103 tons coal, less rebate on 181 tons | | |
|-------------|------------------------------------------------|----------|----|
| | pped\$ | 1,401 | 25 |
| Dues on | 693,147 feet lumber | 34 | |
| " | 890,000 shingles | 26 | 70 |
| " | 1,233 cords wood | 61 | 65 |
| " | 180,000 lath | 2 | 27 |
| •6 | 47 tons cement | 4 | 70 |
| | 1,217 tons merchandise | 121 | 70 |
| " | 101 " salt | 10 | 10 |
| " | 291 " potters' clay | 17 | 46 |
| 66 | 9,500 bush. corn | 11 | 87 |
| " | 2,000 " oats | 2 | 50 |
| 66 | $108\frac{1}{2}$ tons tomatoes | 10 | 85 |
| " | 60 cubic feet stone | 1 | 20 |
| " | 760 bush. pease | | 95 |
| | | | |

\$ 1,707 83

300 cubic yards stone.....

Export dues on 120,485 logs &c.,....

"

"

"

"

"

. 66

"

"

"

"

"

"

"

"

"

| | 53 | VICTO | RIA, | A. | 1900 |
|-----------------------------------|------|----------|------|----|------|
| 120,485 logs &c., | . \$ | 759 | 15 | | |
| 97,150 feet lumber | • | 9 | 71 | | |
| 15,731 bush. barley | | 19 | 66 | | |
| 1,411 " rye | | 1 | 76 | | |
| 5,635 " pease | | 7 | 80 | | |
| 1,673 " oats | | 2 | 09 | | |
| 27,124 " wheat | | 33 | 90 | | |
| 83 tons cheese | | 8 | 30 | | |
| 70,000 shingles | | 2 | 10 | | |
| $464\frac{1}{2}$ tons merchandise | | 46 | 45 | | |
| 2,000 feet lumber | | | 10 | | |

6 00

1 25

25,000 brick................... Dues collected during the season are as follows: 897 55

Total amount derived from imports..... \$ 1,707 83 Total amount derived from exports....... 2,605 38

The amount of dues collected show a considerable increase over last year largely due to a greater quantity of coal being received this year.

The dredge did good work in the harbour while working here during last spring removing obstructions in the western channel and also along the docks on the eastern side.

All of which is respectfully submitted.

I have the honour to be, sir,

Your odedient servant,

D. COLLINS.

Harbour Master.

DOMINION OF CANADA, In the matter of the report of the Province of Ontario, County of Hastings, harbour master of the city of Belleville, for the year ending December 31, 1899. To Wit:

I, DANIEL COLLINS, of the city of Belleville, in the county of Hastings, harbour master, do solemnly declare that:

I am harbour master at the city of Belleville.

That my report hereunto annexed contains a true, correct and full statement of the revenue from the harbour at the city of Belleville for the year ending on the 31st day of December, 1899.

That the said report is in all other respects true and correct to the best of my

knowledge, information and belief.

And I make this solemn declaration, conscientiously believing it to be true and knowing that it is of the same force and effect as if made under oath and by virtue of 'The Canada Evidence Act of 1893.'

D. COLLINS.

Harbour Master.

Declared before me at the city of Belleville, in the county of Hastings, this 18th day January, 1900.

G. MASSON,

A Notary Public.

APPENDIX No. 6.

THREE RIVERS HARBOUR COMMISSIONERS REPORT FOR THE YEAR 1899.

COMMISSIONERS:

ALEX. HOULISTON, Esq., Chairman

NAP. LAJOIE, Esq. ARTHUR OLIVER, Esq. HENRY E. HART, Esq. P. A. DROLET, Esq.

GEORGE BALCER, Secretary.

A remarkable feature in this year's statement is undoubtedly the sudden, and we readily admit, rather unexpected large increase in the shipping of the port during the season of navigation 1899.

From an average of some 40 vessels, with 70 to 75,000 tons for the last half decade our ocean traffic increased to 73 vessels with 160,840 tons for Three Rivers wharves alone, bringing up the total number

i. e: a gain of more than 100 per cent in the number of vessels, and 150 per cent in the tonnage over the best season ever attained.

For years past our traffic has been steadily increasing, and nearly all our former reports bear evidence of a regular marked progress. But neither the general prosperity of the country, nor the unmistakable direct influence of the industrial development in this section of the province could, at the present moment at least, warrant such abnormal increase as witnessed during the season 1899. Some other equally potent factors will therefore have to be sought for.

Foremost amongst the latter are the geographical situation and the natural advantages of a port which, extending for miles right along the main 30 foot channel, thousands of feet in width, can afford to offer to the shipping, at a relatively small outlay, any amount of accommodation not easily met with elsewhere, and facilities for concentrating freight, loading and unloading vessels seldom equaled in other ports. Thus can we explain that with even moderate, and for such a large traffic rather limited improvements, we have at last succeeded in drawing the attention of the larger shipping circles who, up to quite recently, would not have thought of risking one of their big 10,000 ton steamers alongside our wharves.

We candidly admit, when in last year's report we prided ourselves upon an organization capable of meeting, for at least some time to come, all exigencies of modern traffic, we did not expect such numbers of the larger class of vessels applying at once and the same time for space; and freight offering in such quantity as to render our accommodation on more than one occasion totally inadequate. And the sense of responsability again became apparent as to the urgency for further extending our harbour improvements.

Applying an amount originally designed for local purposes, the commissioners at once commenced the construction of another large 30 foot deep wharf. But the season was scarcely half over when it was found that nothing less than the total completion of the eastern section would accommodate the lumber trade alone; while in the western section the wharves would have to be extended at least 600 to 700 feet for the further accommodation of the also rapidly increasing coal trade.

So much for actual traffic.

But when the initial works at the Shawinigan Falls will be completed; when the gigantic industrial establishments now under construction at that place will be in working order, and others under consideration, be established in Three Rivers, the question arises: will the contemplated increase in our improvements be sufficient to accommodate the constantly increasing traffic?

We know, for instance, that the production of the Laurentide Pulp Co. at the Grand Mère will exceed, this season, 200,000 tons, partly for home consumption, but to a greater extent for export. To produce such quantities it requires, apart from the wood and other raw material, from 25,000 to 30,000 tons of coal, sulphur, clay, &c;

all articles to be imported by sea.

With the output of the Radnor forges, and other minor establishments already operating we will not go far astray in saying that, inside of a few years another 500,000 tons of freight will have to be added to, and this as much for the benefit of the ocean shipping as for the land and river carrying trade; and more pertinent than ever will be the question: how to provide for handling all this freight?

And this is not all.

In August last, about the time when the water in the St. Lawrence was at the lowest, the question of shipping cattle from Three Rivers was seriously discussed. The larger steamers, not being able under prevailing circumstances to take their full cargo at Montreal, the interested parties came to the conclusion that our port, being nearer to Montreal and not hampered by the inconveniences of extreme tides, would best be in position to relieve this periodical drawback. And preparations were made to ship from here a portion of the 30,000 head of cattle then remaining to be forwarded, when—owing to the shallowness opposite Champlain River—three (3) steamers in succession met with a slight accident in the main channel. Although the impediment had at once been removed by a government dredge, it was thought advisable to go to Quebec to load the cattle—even at far larger expense—until more accommodation and properly adapted improvements for this particular trade could be established in our port.

Thus is it clear that our accommodations do not even now fully answer the purpose, and as for the coming traffic no time must be lost to provide for every necessary

improvement.

But here another serious question arises:

'Are the commissioners in position to meet the heavy expenses for such largely increased and costly harbour works?'

With the exigencies of modern traffic; the demand and extension of to-day's trade and commerce; the continual increase in the size and draught of vessels, requiring each and all special commodities—Three Rivers not more than Montreal, Quebec or any other port can dispose of sufficient resources to go beyond a certain limit. Trying to raise fresh loans and thus intentionally impairing their finances might be of but poor help; imposing new taxes, or increasing existing harbour dues would be of but scant relief, and a policy of rather doubtful nature, righteously condemned by every one.

Only one logical solution remains:

'The participation of the Dominion in the expenses for all unavoidable extra harbour works.'

Here as well as in other parts of the country Government's action and intervention is the primary condition for establishing works of purely public interest. Question of local interest, political favour, or excessive amour de clocher shall not and do not prevail here. A large view has to be taken of our case, or the present and future development of the trade of the Dominion is but a myth, or the prevailing conditions require the most serious and immediate attention.

Besides, larger ports are not the only ones deserving careful consideration. Trade interests command consideration in every quarter, for every detail and in all its ramifications, and in this our section of the Dominion where new and most powerful factors are at present engaged in preparing an era of unprecedented industrial development—the attention of the government will necessarily have to be particularly directed.

Public opinion is far from adverse to these views, and we have reason to believe that the Government—fully realizing the facts—will not fail to do its duty.

COMPARATIVE Statement of Exports and Imports for the Port and District of Three Rivers for the year ending December 31, 1899.

The aggregate volume of 'direct' foreign trade as per custom and consular returns amounted, in 1890, to \$2,235,150 divided into:

| Exports | \$1,856,850 |
|---------------------------------------------------------------------|-------------|
| Imports | 378,300 |
| the largest amount for 'direct' transportation ever attained before |). |
| In 1898, the total figured | \$1,785,180 |
| In 1897 | |

Thus in 1890, we have a surplus of \$450,000, or 30 per cent over the total of the preceding, and \$600,000 or 37 per cent over the year 1897.

In further comparing we find exports in 1899 showing an increase of \$782,000, or

66 per cent over 1898; and \$415,000 or 29 per cent over 1897.

Imports in 1899 fell short of \$232,000 as compared with 1898, but gained \$186,000 over 1897. The large difference with 1898 is accounted for by the importation during that season, of the costly machineries for the Grand'Mére Pulp and Paper In 1900, larger figures will again appear under the same heading for the mammoth establishments at the Shawinigan Falls.

The progress of our imports following their regular course, further comments are not necessary. Not so with the exports, the details of which may furnish some more useful information.

For the first time in many years our exports to Great Britain exceeded the exports to the United States, and this by a most appreciated figure.

Never before did we send to the mother country more than \$600,000 worth and the average of the last ten years attained about \$500,000. This time we reached the million. A net gain of exactly 100 per cent.

True one may observe that the price of lumber for instance being very high, the

increase in our exports do not bear the same interest.

This may partly be the case, but an average of \$11.50 per M. feet B.M. do not vary much with the average of preceding years while it remains even below the average of a good many other seasons. The quantities, on the other hand, are far more suggestive. They exceeded in 1899 by 90 per cent the quantities shipped in 1898 70 per cent of those of 1897, and 80 per cent over 1896.

Another notable feature is the progress in the export of pulp and paper to Great Britain; an article which henceforth will play a prominent figure and show a continual

regular increase.

It may also be well to remind that in the foregoing no mention is made of our indirect exports to England. Cheese and butter to the amount of over \$600,000 are still annually shipped via Montreal, and many thousand tons of our hay are carried off every season by the outgoing cattle steamers.

Our export to the United States, in 1899, although larger than in 1898, and about

the same as in 1897, show a decrease of some \$140,000 over 189.

The discrepancy is entirely due to the quantities of lumber shipped and the effect

of the \$2 duty levied on the lumber in the United States.

In last mentioned year 42,000,000 feet, at a value of \$374,000, were shipped whereas shipping in 1897 was reduced to twenty-eight and a half million and \$270,000, and in 1898 to even nineteen and a half million with only \$135,000; 1899 coming in again with about 30,000,000 feet and \$265,000, a better average is also obtained, although that average does not give the exact value of the increase in the price which lately so well maintained in the market of the United States.

Pulp wood gained some 10,000 cords over 1898, and about 16,000 over 1897.

quantity shipped in 1899 was 66,350 cords, valued at \$210,000.

Year by year progress has been noted in the export of that article, although the price never varied much. The proposed change in the fiscal policy of the Quebec Government, imposing an increased stumpage due on pulp wood not manufactured in the province, will undoubtedly have a modifying effect upon next year's export. Still we are under impression that matters will settle themselves, the wood cut on private property not being subject to the government measure and a difference of even \$1.50 per cord of the raw material may not represent a very large percentage in the final value of a ton of paper in the United States.

The shipping of wood pulp to the United States held its own in 1899; the same

with most of our other articles of exports.

Exports to other countries continued moderate.

France received three cargoes of lumber and a few hundred tons of charcoal iron. Spain had but two cargoes of lumber; while some trial shipping with paper had been made to Holland and Belgium; and a commencement of a fairly good opening established with the same product in the Australian colonies.

We may further remark that the total export of our staple representing the respectable amount of 106,000,000 feet lumber valued at \$1,165,000 has been forwarded.

Seventy-six and a half million in 80 cargoes to British and continental markets, and 29,000,000 feet in 490 canal barges, and a small proportion by rail, to the United States. At an average of 44.6 per petg. std., the freight for Europe represents over \$400,000. Adding the other freight, ocean carriers earnings in our port in 1899 did not fall short of a half million dollars.

In conclusion we beg to give an outside opinion as to the value of our port in con-

nection with the present industrial development in our district.

In a communication to the president of the Shawinigan Water and Power Co., the hydraulic and mill engineers speaking of 'Transportation Facilities' reported, after railroad matters as follows.

'While at Three Rivers you have a point which offers most excellent shipping facilities both by rail and water. This will be an especially desirable location at which to manufacture for export, as vessels en route to all parts of the world will touch here. There is no other place where there is a water power of this magnitude which can be economically transmitted to a point reached by ocean going boats. Your company will be able to sell power at Three Rivers cheaper than it can be had at any other sea port in the world.

The following is the summary statement of exports:-

To the United States-

| T 1 41 10 10 10 00 000 | Δ. | 005 505 |
|------------------------------------|----|-----------|
| Lumber, thousand feet B.M., 29,800 | # | 265,535 |
| " other | | 14,590 |
| Pulp wood, cords, 66,349 | | 239,560 |
| Wood pulp | | 144,270 |
| Produce of the field and farm | | 30,555 |
| " mines | | 87,475 |
| Other manufactures and produce | | 6,340 |
| Household effects | | 18,715 |
| | \$ | 807,040 |
| To Great Britain— | _ | |
| Lumber, thousand feet B.M., 74,500 | # | 877,380 |
| Square timber | ** | 1,480 |
| Paper and cardboard | • | 124.195 |
| Uo- | | 124,130 |
| Hay | | 100 |
| | \$ | 1,003,235 |
| | | |

| Fo France— Lumber, feet, B.M., 903,500 | | 10,055 7, 500 |
|-----------------------------------------------------|-----------|-------------------------|
| | \$ | 17,555 |
| To Spain— Lumber, feet, B.M., 888,000 | \$ | 10,000 |
| Fo Holland and Belgium— Paper and charcoal pig iron | \$ | 2,195 |
| Fo Australia— Paper | \$ | 16,835 |
| Total exports | \$ | 1,856,950 |
| Imports. | _ | • |
| From the United States— | | |
| Plants, hardware and machineries | \$ | 90,400 |
| Metal | | 12,950 |
| Drugs, chemicals, &c | | 7,890 |
| Firebricks, sand, clay, grindstone | | 5,130 |
| Coal | | 11,830 |
| Breadstuff and provision | | 19,130 |
| Cotton and woollen goods | | 13,243 |
| Fancy goods | | 4,178 |
| Leather and manufacturing of | | 26,790 |
| Other manufacture | | 10,35 |
| Wood and manufacture of | | 1,795 |
| Raw hides, skins and furs | | 3,66 |
| " tobacco | • | 5,47 |
| Books, prints and stationery Divers | | 3,643 |
| Settlers' effects | • | 12,18 |
| Settlers enects | _ | 26,23 |
| B | \$ | 254,898 |
| From Great Britain— | | |
| Cotton and woollen goods | \$ | 8,54 |
| Dress and fancy goods | | 2,56 |
| Manufactured articles | • | 650 |
| Leather | | 1,26 |
| Sulphur | • | 18,520 |
| China clay | _ | 2,70 |
| | \$ | 34,240 |
| From France— | | |
| Dress and fancy goods | \$ | 1,31 |
| | . " | 220 |
| Furs | | |
| FursBooks and stationery | | 930 |
| Furs Books and stationery Wine and brandy | | 930 790 |

| • | 63 | VICTORIA, A. 1 |
|------------------------------------|------|----------------|
| From Holland— | | |
| Gin | \$ | 4,015 |
| From Germany— | | |
| Leather and manufacture of | .\$ | 1,030 |
| Dress and fancy goods | | 125 |
| Divers | • | 420 |
| | \$ | 1,575 |
| From Austria— | | ···· |
| Furs | \$ | 3 25 |
| From Lower Provinces— | | |
| 24,500 tons coal | \$ | 80,000 |
| Total imports | \$ | 378,305 |
| Grand total 'direct' transactions- | | |
| Exports | . \$ | 1.856.950 |
| Imports | | |
| | \$ | 2,235,255 |

GEORGE BALCER,

Secretary.

Harbour Commissioners' Office, Three Rivers, February 24, 1900.

STATEMENT of Number and Tonnage of Sailing Vessels and Steamers entered inward and outward at the port and out-ports of Three Rivers for the year 1899.

OCEAN TRAFFIC.

| Return of Vessels Inward. | No. | Tons. | Return of Vessels Outwards. | No. | Tons. |
|---------------------------|---------|------------------|-----------------------------|-------------------|------------------------------------|
| Total arrivals | 91 | 200,686 | Total departures | 91 | 200,686 |
| Steamers | 89 2 | 198,502 2,184 | British and Canadian | 84 4 2 1 | 189,150 5,748 4,674 1,114 |

PORT OF THREE RIVERS.

| | | | <u> </u> | | | |
|-------------------------------------------------------------------|--------|------------------|-------------------|------------------|--------------------|-------------------------------------|
| Arrived. | No. | Tons. | Cleared For. | r | To. | Tons. |
| SteamersSailing vessels | | 158,656 2,184 | Great Britain | | 59 10 2 2 | 136,490 15,210 5,459 3,681 |
| | ου | TPORTS- | -BATISCAN. | | | |
| Steamers | . 3 | 8,232 | Great Britain | | 3 | 8,232 |
| LAKE ST | . PETE | R-PIER | REVILLE, LOUISEVI | LLE. | | |
| Steamers | 15 | 31,614 | Great Britain | | 14 | 28,870 2,744 |
| | | UNITED | STATES. | | | |
| | | | | Number. | Т | onnage. |
| Port of Three Rivers—United St Outports—United States canal be | | | | 496 185 | | 47,458 17,578 |
| | | | | 681 | | 65,028 |
| | | INLAND | TRAFFIC. | | | |
| Bateaux not registered | | | | 105 56 131 | | 5,18- 13,95 |
| | | | | 292 | | 19,130 |
| | | RECAPIT | TULATION. | | | |
| Ocean traffic | | | | 91 681 292 | | 200,68 65,02 19,13 |
| LOCAL | | | | | | |

(Richelieu and Ontario Navigation Company's steamers, market and local boats not included.)

RECEIPTS and Disbursements of Harbour Commission of Three Rivers for the year 1899.

RECEIPTS.

| | | | | Course | TONS OF HA | COLLECTIONS OF HARBOUR DUES. | | | | Pro | PROCEEDS FROM | X |
|-----------|-------------------------------------------------------------|------------------------------------------|------------------------|-----------------------|-----------------------|------------------------------|--------------------------------------------|------------------|------------------|-------------|---------------|----------|
| | | Comm | Commissioner's Office. | Office. | | | Custom-house. | nouse. | | | | |
| Months. | E | _ | On Goods. | | Dant | | On Goods. | ods. | | Sale of | Notes | Other |
| | dues dues on vessels. | - | Inwards. Outwards. | Com- mutation. | wharf and moorage. | Tonnage dues. | Inwards. | Outwards. | Moorage dues. | debentures. | issued. | sources. |
| | e cts. | s cts. | cts. | cts. | es ots. | e cts. | e cts. | ee cts. | es cts. | ee cts. | s cts. | s cts. |
| January | | 15 49 | 88 | 28 27 | : | : | : | : | : | 20,000 00 | | |
| March | • | | 10.88 | 4 50 | 8000 | | | | | | | |
| May | 13 17 | 2 to 3 | 20 73 | | 8 : | | | | | | | |
| June. | 12 8 8 19 | | 4 59 | 3 8 8 8 8 | | 20 0G 720 | 35. | 00 000 | | | | |
| August | 8 8 8 8 8 | | 388 1 × 8 | 3 : | 348 | 200 00 | 1,000 00 | 1,000 00 | | | | |
| September | 28 28 28 28 28 | 38 | 88 88 | | 88 | 1,000 00 | 250 00 | 750 00 | | | | |
| November | 17 23 | ¥ % % 3 | 106 34 8 40 | 38 88 | 100 80 | 1,300 00 | 146 68 | 395 01 395 01 | 546 40 | | | 795 13 |
| | 325 00 | 337 68 | 234 82 | 227 77 | 377 85 | 3,629 87 | 2,146 68 | 3,345 01 | 546 40 | 20,000 00 | | 795 13 |
| | Courtesto | Pountagnos Ostra | 1 | | RECAPITULATION | ATION. | | | | | | |
| | Tonna Harbc | Tonnage dues | inwards | | | | 325 00 337 68 234 82 227 77 | | | | | |
| | Rent c | Rent of wharves and moorage | and moorag | 9 | | ' | | 1.503 12 | | | | |
| | Custom-house— Tonnage due Harbour due "Moorage due | . xi x x x x x x x x x x x x x x x x x x | inwards | | | | 3,629 87 2,146 68 3,345 01 546 40 | | | | | |

| 20,795 13 | | \$ 55,245 91 |
|--------------------------------------------------------------------------|--------------------------------------------|----------------|
| Processor Frank— Sale of debentures Reinbursement. Interest on deposits. | Deposit in bank and cash, January 1, 1899. | Total receipts |

RECEIPTS and Disbursements of Harbour Commission of Three Rivers, &c.—Concluded.

DISBURSEMENTS.

| | | Ехри | NSES FOR A | EXPENSES FOR ADMINISTRATION. | rion. | | | | DISBURSEMENTS CHARGEABLE TO | NTS CHARG | RABLE TO | | |
|---------------------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-------------------------------------------------------|--------------------------------------|-----------------|----------------------------------------------------|----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|-----------------------------------------|------------------------------------------------------------------------|---------------------------------------------|-------------------------------------|
| Монтив. | Current expenses. | Salaries and Commissions | Rent. | Printing and Stationery | Travelling and other Expenses. | Refunds. | Refunds. Engineer's Office. | Repairs. | Construc- tion Account. | Plants and Tools. | Property Account. | Interest Account. | Divers Sinking Fund. |
| January Rebruary March April April June July September. October November. | 6 cg. 33 22 22 23 24 24 25 25 25 25 25 25 25 25 25 25 25 25 25 | \$ cb. 159 33 147 33 147 33 147 33 147 33 167 33 167 33 167 33 167 33 167 33 167 33 167 33 | ct 200 00 00 00 00 00 00 00 00 00 00 00 00 | \$ cts. 16 38 28 70 33 00 27 60 105 68 | cts. | \$ cts. | \$ cts. 24 50 0 50 0 50 0 50 2 50 2 50 2 50 2 50 2 | \$ cts. 12 00 24 35 147 75 147 75 27 65 28 38 286 56 38 39 214 35 1,388 71 | \$ cts. 2,050 00 2,050 00 3,249 16 4,355 32 521 43 1,800 00 1,900 00 2,110 00 4,100 00 4,100 00 2,135 50 2,156 51 | \$ cta. 77 50 150 00 42 28 43 10 136 10 | \$ cts. 530 00 123 33 1,237 50 800 00 50 70 2,744 28 | \$ cts. 1,525 00 2,275 00 2,275 00 3,912 50 | \$ cts. 202 50 477 50 477 50 689 00 |
| | | ADMINISTRATION— | MTION | | æ | RECAPITULATION. | TION. | 87.070 | | | | | |

| | | 30 00 0 | 20 | 1,464 91 |
|-----------------|---------------------------|-----------------------------------------------------------|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| RECAPITULATION. | Salaries and commissions. | Kent 200 00 Printing and stationery 105 68 Refunds 299 57 | DISBURSTMENTS— Engineer's office. \$ 76 20 Repairs and general harbour expenses. 1,388 71 | Construction account Plants and tools Property account 2,744 28 |

| | 36, 856 23 18,389 68 | \$ 55,245 91 | GEORGE BALCER, Secretary-Treasurer. |
|-------------------------|------------------------------------------------------------------|--------------|----------------------------------------|
| 92 | 98 18 18 | | 9 |
| 4,592 50 | | : | |
| \$ 3,912 50 680 00 | | : | |
| Interest on debentures. | Total disbursements Deposit in bank and cash, December 31, 1899. | Total | |
| | | | p |

Тняее Rivers, January 15, 1900.

APPENDIX No. 7

REPORT OF THE PICTOU HARBOUR COMMISSIONERS FOR THE YEAR ENDED DECEMBER 31, 1899.

Pictou, N.S., January 12, 1900.

F. GOURDEAU, Esq.,
Deputy Minister of Marine and Fisheries,
Ottawa.

SIR,—I have the honour to inclose you accounts of the Harbour Commissioners, for the Port of Pictou, N.S., for the year ending December 31, 1899. Also, a statement from the Collector of Customs for this port.

Yours very truly,
HENRY G. IVES,
Secretary.

MEMORANDUM of Receipts and Disbursements on account of Harbour Dues at the Port of Pictou, N.S., during the year ending December 31, 1899.

| 189 | 99. | receipts. | \$ | \$ |
|--------------|----------|-----------------------------------------------------------------------------------------------|------------------|--------|
| Jan. Dec. | 31 | Balance in Bank of Nova Scotia | 70 00 675 25 | |
| Dec. | 31 31 | Paid harbour master's salary for 1899 | 200 00 475 25 | |
| ** | 31 | Balance in Bank of Nova Scotia, reserved to pay harbour master's salary during winter of 1900 | 70 00 | 745 25 |
| 11 | 31 | Balance in bank | 70 00 | |

Certified correct,

D. McDONALD,

Collector.

SESSIONAL PAPER No. 11b

HARBOUR COMMISSIONERS, Port of Pictou, in account with Henry G. Ives, Secretary.

| 1899 | }. │ | | \$ cts. | 189 | 9. | | | \$ cts |
|-------|----------|---------------------------------------------------------|----------------|------|------------|----|-------------------------------------------|----------|
| an. | 14 | To E. M. McDonald's account | | Jan. | | | Balance per account | 612 41 |
| 11 | 20 | for 1898 | 12 15 | Dec. | 30 | | Deposited by collector per his account | 475 25 |
| 11 | 26 | for 1898 Jas. McDonald, repairing | 1 70 | " | 3 0 | | Interest on \$2,500 deposit receipt | 128 25 |
| | | buoy pump | 0 50 | | | | receipt | 120 20 |
| April | | _ due per his account | 10 82 | | | | | |
| " | 4 | Interest on mortgage, one year up to Nov. 15, 1898. | 10 56 | | | | | |
| 1ay | 2 | Mell. McDonald for bushes for channel to East River. | 4 00 | | | | | |
| 11 | 12 | John Dalton, pumping buoy | 1 00 | ļ | | ĺ | | |
| 11 | 13 | Thos. Fraser, bushing West | 0.00 | | | | | |
| 11 | 13 | River Wm. Livingston, bushing | 8 00 | li | | | | |
| | | East River, removing log from channel and repair- | | | | | | |
| | | ing wharf | 23 00 | | | | | |
| ** | 17 18 | Expenses to New Glasgow | 2 00 | | | | | |
| " | 10 | Jas. A. Fraser, paint, &c., for buoys | 2 13 | | | | | |
| 11 | 18 | Painting buoys and chang- | c 00 | | | | | |
| une | 5 | ing Middle River buoy Jno. McLennan for pun- | 6 0 0 | | | | | |
| | 6 | cheon for buoy | 3 75 | | | | | |
| " | 0 | Jno. McRea, bushing Middle River | 8 00 | li | | | | |
| | 26 | Pumping East River buoy. | 2 00 | 1 | | | | |
| uly | 6 | Commissioners' travelling expenses | 14 00 | | | | | |
| ** | 14 | SS. Drummond, bushing channel to East River | 6 00 | | | | | |
| lug. | 23 | Joseph Graham, wharfinger, | 0 00 | | | : | | |
| -n+ | 1 | &c., N. Glasgow | 25 00 |] | | : | | |
| ept. | 1 | G. Reddy, blacksmith, repairing buoys | 13 32 | | | | | |
| ** | 5 | E. Cameron, tinsmith, repair- | 4 85 | | | ! | | |
| ct. | 7 | ing buoy | | | | | | |
| ** | 24 | Harbour buoys | 12 00 | | | | | |
| | | channel East River | 1 50 | | | | | |
| ec. | 15 30 | Taking in harbour buoys E. M. McDonald's account | 20 00 | H | | | | |
| *' | | 1899 | 25 00 | ļ! | | | | |
| " | 30 30 | W. B. Ives' account 1899 Secretary's salary | 7 00 100 00 | il | | | | |
| " | 30 | Balance in Bank of Nova Scotia | 891 63 | | | | | |
| | | Scoula | | Dec. | 3 0 | Ву | Balance credit in Bank of - | |
| | | | 1,215 91 | | | | Nova Scotia 891.63 | 1,215 91 |

HENRY. G. IVES,

Secretary.

Pictou, January 1, 1900.

APPENDIX No. 8.

REPORT OF THE HARBOUR COMMISSIONERS OF NORTH SYDNEY FOR THE YEAR ENDED DECEMBER 31, 1899.

> Office of Harbour Commissioners, NORTH SYDNEY, C.B., July 11, 1900.

JOHN HARDIE, Esq.,

Acting Deputy Minister of Marine and Fisheries, Ottawa.

SIR,-I beg to hand you herewith inclosed report and financial statement of the North Sydney Harbour Commissioners. I regret the delay in forwarding these papers. They were laid aside for signature and neglected.

Your obedient servant,

WM. HACKETT,

Secretary.

OFFICE OF HARBOUR COMMISSIONERS, NORTH SYDNEY, C.B., Jan. 20, 1900.

Number, tonnage and classification of vessels that arrived at this port during the year ending December 31, 1899, navigated by 23,825 seamen:-

| | Number. | Tonnage. |
|-------------------------|---------|----------|
| Ocean-going steamships | 591 | 569,454 |
| Coasting | | 44,231 |
| Ships | | 1,455 |
| Barques | | 7,240 |
| Barkentines | | 3,746 |
| Brigantines | 13 | 2,405 |
| Schooners | | ð8,150 |
| - | 1,576 | 686,681 |
| al shipments for 1899:— | | |

Coa

Dominion Coal Company, Ltd. 1,541,282 "

WM. HACKETT,

Secy. Harbour Commissioners.

SESSIONAL PAPER No. 11b

HARBOUR COMMISSIONERS' Statement of Receipts and Disbursements for Year ending December 31, 1899.

| 1899. | | | Receipts. | \$ cts. 1899. | | DISBURSEMENTS. | \$ cts | |
|-------|----------|-----------|--------------------------------------------|----------------|--|-----------------|-----------------|--|
| | | Balance o | n hand Dec. 31, 1898 | 1,682 09 | | Peter McDonald | 200 0 | |
| Jan. | | Cash fron | a customs, harbour dues | 19 93 | | J. W. Gordon | 200 0 | |
| _ !! | 26 | " | " | 24 69 | | Joseph Shean | 400 0 | |
| Feb. | 28 | " | " | 14 33 | | Office | 50 0 | |
| April | | " | | 13 45 | | V. E. Bown | 45 0 | |
| May | 9 | ** | " | 78 57 | | Wm. Hackett | 400 0 | |
| 11 | 15 | " | " •• | 46 20 | | | | |
| 11 | 22 29 | " | " | 52 88 67 88 | | | | |
| June | 29 6 | " | " | 127 09 | | | | |
| une | 12 | " | " | 71 24 | | | | |
| " | 17 | " | " | 62 73 | | | | |
| ** | 24 | ", | " | 61 23 | | | | |
| July | i | " | " | 48 06 | | | | |
| " | 8 | ,,, | " | 92 66 | | | | |
| | 15 | | " | 47 93 | | | | |
| ** | 22 | ,, | | 82 74 | | | | |
| 11 | 29 | ,, | | 64 39 | | | | |
| Aug. | 5 | ,, | | 48 84 | | | | |
| 11 | 12 | " | u | 71 00 † | | | | |
| ** | 19 | " | | 92 42 | | - i | | |
| . 11 | 26 | ** | ** | 45 97 | | | | |
| Sept. | 2 | " | | 65 28 | | | | |
| ** | .9 | " | tr | 73 36 | | | | |
| 11 | 16 | " | 11 | 52 32 | | | | |
| " | 23 23 | " | 99 D | 47 52 37 35 | | | | |
| ** | 23 30 | " | SS. Bruce for Aug customs, harbour dues | 67 80 | | | | |
| Oct. | 7 | " | , | 63 07 | | | | |
| " | 14 | ., | - 1 | 42 69 | | | | |
| " | 21 | " | " | 49 10 | | | | |
| " | 28 | ; | " :. | 57 08 | | | | |
| Nov. | 4 | ; | " | 30 95 | | | | |
| " | 4 | 11 | SS. Bruce for Sept | 44 44 | | | | |
| | 11 | ** | customs, harbour dues | 46 90 | | | | |
| ** | 18 | ,, | , , , , , , , , , , , , , , , , , , , , | 34 02 | | 1 | | |
| ** | 25 | " | | 59 19 | | | | |
| | 25 | 1, | SS. Bruce for Oct | 40 78 | | | | |
| Dec. | 2 | ** | customs, harbour dues | 26 61 | | | | |
| 11 | 9 | 11 | " | 22 60 | | | | |
| 11 | 16 | " | | 31 60 | | | | |
| ** | 23 | 11 | , , , , , , | 34 26 | | | | |
| 11 | 31 | ** | wharfage | 20 00 | | | | |
| ** | 31 | 11 | SS. Bruce, \$44.56 for | 00.00 | | | | |
| | 91 | | Nov., \$44.34 for Dec. | 88 90 | | Polones on hand | 2,680 3 | |
| " | 31 | " | customs, harbour dues | 23 21 | | Balance on hand | <i>4</i> ,000 3 | |
| | | | | 3.975 35 | | | 3,975 3 | |
| | | 1 | | 9,919 99 | | j | 0,010 0 | |

PETER J. McDONALD, JAMES W. GORDON, WM. HACKETT.

NORTH SYDNEY, C.B., January 20, 1900.

APPENDIX No. 9.

REPORT OF THE PILOTAGE AUTHORITY OF MONTREAL FOR THE YEAR 1899.

HARBOUR COMMISSIONERS OF MONTREAL, SECRETARY'S OFFICE, MONTREAL, February 28, 1900.

F. GOURDEAU, Esq.,
Deputy Minister of Marine and Fisheries,
Ottawa.

Sir,—I have the honour, by direction of the Harbour Commissioners of Montreal, as the pilotage authority, to transmit, for the information of the honourable the Minister of Marine and Fisheries, the following report of the pilotage district of Montreal, for the year ended December 31, 1899.

The accompanying statement gives the names, earnings, &c., of all the pilots for the past season, and shows a decrease in the latter of \$4,459.57 from 1898, in which year they exceeded those of any previous year by almost \$10,000.

The total amount of pilotage dues was received from the following services, namely:

BRITISH.

| Steamships | 535 | 36 | \$66,122 | 87 |
|------------|-----|-----------|----------|----|
| FOREIGN. | | | | |
| Steamships | 16 | 00 | \$ 8,664 | 81 |
| Total | | . | | 68 |

Before the opening of navigation, the selection of pilots was made as usual by the Montreal shipping firms, who had been asked in writing if they desired to avail themselves of the privilege granted in by-law 109.

On April 4 Pilot Zéphirin Bouillé, 70 years of age, was granted a renewal of his license for another year, after being examined under the provisions of by-law 103. On May 26, however, he tendered his resignation and was placed on the pension list from August 15.

Before the opening of navigation Pilot François Desjordy, of Lavaltrie, who had been pensioned on May 1, 1897, for impaired eyesight, furnished medical certificates to the effect that his sight had not improved, and was, in consequence, continued on the pension list until May 1, 1900.

There are now 54 pilots on the list, which, in virtue of by-law 99, is limited to 55. In March, an examination of apprentice pilots was held, at which there were eight candidates, of which Messrs. Anthyme Perrault and Achille Bélanger passed a satisfactory examination, and were granted permits in accordance with by-law 96 of the commissioners.

The following list gives the names, age, residence and date of license of each apprentice pilot now serving his time under this Authority:

| TITOT | OF | APPR | ENTICE | PILOTS |
|-------|----|------|--------|--------|
| | | | | |

| No. | Name. | Age. | Residence. | Date of License |
|-----|---------------------|------|------------------------|-----------------|
| 1 | *Perrault, Anthyme | 31 | Deschambault | Oct. 14, 1890. |
| | *Bélanger, Achille | | Lotbinière | " 11, 1892. |
| 3 | Raymond, J. N | 30 | Ste. Anne de la Pérade | · 14, 1890. |
| 4 | Pleau, J. E | 29 | Deschambault | Nov. 11, 1890. |
| 5 | Veillet, George. | 30 | Ste. Anne de la Pérade | July 19, 1892. |
| 6 | Labranche, Melville | 25 | Portneuf | Oct. 11, 1892. |
| 7 | Gagnon, Albert | 24 | Three Rivers | ıı 11, 1892. |
| 8 | Paquin, Azarias | 26 | Deschambault | ıı 11, 1892. |
| 9 | Gignac, Arthur | 26 | Portneuf | 11. 1892. |
| 10 | Paquet, Damien | 26 | Deschambault | May 30, 1893. |
| 11 | Bourassa, Henri | | | Oct. 24, 1893. |
| 12 | Angers, Alfred | 23 | Ste. Anne de la Pérade | Jan. 30, 1894. |
| 13 | Gariepy, J. A. U | 20 | St. Alban | June 2, 1896. |

^{*} Permit issued May 4, 1899 (Art. 96 Harbour Commissioners' By-laws).

Twenty-nine applicants to be placed on the list of apprentice pilots were also examined on August 16, and the commissioners have not yet decided how many new apprentices will be licensed.

LIST OF APPLICANTS FOR LICENSE AS APPRENTICE PILOTS.

| No. | Name. | Residence. | Date of Application |
|-----------------|------------------------|----------------------------------|------------------------------|
| 1 | Gariény A. J. P | Lachevrotière | Jan. 16 1894. |
| 2 | Franctic Oswald | Portneuf | March 1 1894 |
| 3 | Hamelin Chas. B. | Champlain. | Nov. 17, 1896. |
| 4 | Perron Tancrede. | Deschambault. | 28, 1896. |
| 5 | Angers J B | Ste. Anne de la Pérade | . 28 1896 |
| 6 | Patoine J. B., ir., | Sydney, C.B | Dec. 3, 1896. |
| 7 | Frenette Delavoie | Sydney, C.BPortneuf. | Jan. 25, 1897. |
| 8 | Couthier Laurent I | Dogohon boult | March 26 1897 |
| 9 | Perrault, fils, David. | Quebec, 306 St. Valier St. | April 8, 1897. |
| 1ŏ | Hamelin, Fortunat | " | 19, 1897. |
| 11 | Gauthier, Adélard | | May 6, 1897. |
| $\overline{12}$ | Arcand, J. Emilien | | ,, 7, 1897. |
| 13 | Gauthier, Cyriac. | " | ,, 9, 1897. |
| 14 | Rover, fils | Quebec, 306 St. Valier St | , 23, 1897. |
| 15 | Gariény, Henri. | Lachevrotière | ,, 24, 1897. |
| 16 | Perrault, Jean | Deschambault. | ,, 25, 1897. |
| 17 | Brunet, Edouard | Montreal | ., 2, 1898. |
| 18 | Carpentier, Eugène. | Champlain | June 28, 1898. |
| 19 | Fortier, J. Philéas | St. Jean, Ile d'Orléans | Aug. 27, 1898. |
| 20 | Rivard, Frs. Xavier | Grondines | Sept. 12, 1898. |
| 21 | Mayrand, Joseph | Lachevrotière | Nov. 6, 1898. |
| 22 | Arcand Arthur | Portneuf | 9, 1898. |
| 23 | Frenette, Georges | | ₁₁ 15, 1898. |
| 24 | Gariepy, Hercule | Deschambault | · 18, 1898. |
| 25 | Arcand, Alfred | Grondines | April 1 ¹ , 1899. |
| 26 | Bouillé, Henri | Deschambault | Aug. 5, 1899. |
| 27 | | River Lafleur, Island of Orleans | |
| 28 | | Deschambault. | |
| | | Portneuf | |

The amounts received and expended by the harbour commissioners, as pilotage authority of the district, apart from their receipts and disbursements in trust for the

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Montreal Decayed Pilots' Fund, of which the annual report and statements have been sent you, were as follows:—

RECEIVED.

| From H. & A. Allan, for two copies of evidence re Gallia | |
|-------------------------------------------------------------------------------------------------------------------------------|----|
| investigation\$ 10 00 | 0 |
| Pilot, ² of the pilotage dues on sundry vessels 8 51 | 1 |
| Collector of customs. Three Rivers. 2 of the pilotage | |
| Collector of customs, Three Rivers, $\frac{2}{7}$ of the pilotage dues on vessels to and from Three Rivers and Batiscan 22 35 | 5 |
| Collector of customs, Sorel, $\frac{2}{7}$ of the pilotage dues on | |
| vessels to and from Sorel | 1 |
| Collector of customs, Montreal, $\frac{2}{7}$ of the pilotage dues | , |
| on vessels to and from Montreal | |
| | _ |
| Total \$1,465 01 | 1 |
| | • |
| EXPENDED. | |
| By deficiency, brought forward from 1898 \$ 868 48 | 8 |
| Pilots in attendance at examination of apprentices 292 40 | |
| Cléophas Auger, pilot, expenses in connection with in- | |
| spection of the channel | 7 |
| Dominion Express Company, parcel pilotage agent at | • |
| Quebec 0 38 | 5 |
| Quebec | |
| vestigation | n |
| Geoffrion, Geoffrion & Roy, professional service in con- | • |
| nection with pilotage matters | 5 |
| H. Hains, stenographer's fees re investigation into collis- | |
| ion between ss. Turret Court and Ramillies 8 00 | n |
| Urquhart & Wright, stenographer's fees in Greta | U |
| Holme Investigation | Λ |
| Urquhart & Wright, stenographer's fees re investigation | U |
| into collision between ss. Turret Court and | |
| | ^ |
| Ramillies | v |
| L. A. Cusson, stenographer's fees in Greta Holme in- | Ω |
| vestigation | U |
| Urquhart & Wright, stenographer's fees in Sophie | ^ |
| Rickmers Investigation 14 00 | U |
| N. C. Dufresne, pilot, travelling expenses re Turret | |
| Court and Ramillies investigation 8 7 | |
| Jos. Paquin, bailiff's fees | 7 |
| Joseph Thibaudeau, salary as Montreal pilotage agent to | |
| Quebec 600 0 | |
| Joseph Thibaudeau, allowance for stationery, postage, &c. 19 8 | |
| Printing, stationery, &c | 10 |
| o, , , | |

The above statement shows a surplus of revenue over expenditure for the year 1899 of \$101.04, but owing to the deficiency brought forward from 1898, there still remains over expenditure for five years of \$757.44.

The tariff of pilotage dues was the same as has been in force since March, 1877, and is as follows:

From the harbour of Quebec to Three Rivers and the opposite side of the River St. Lawrence, or any place above Portneuf and below Three Rivers:

| SESSIONAL PAPER No. 11b |
|------------------------------------------------------------------------------------------------------------------------------------|
| For the pilotage of any vessel in tow, or propelled by steam (except as hereinafter mentioned), for each foot of draught of water: |
| Upwards \$1 50 Downwards 1 50 |
| For the pilotage of any sea-going vessel propelled by steam, for each foot of draught of water: |
| Upwards |
| For the pilotage of any vessel under sail, for each foot of draught of water: |
| Upwards 2 60 Downwards 1 90 |
| From the harbour of Quebec to Sorel and the opposite side of River St. Lawrence, or any place before Three Rivers and below Sorel: |
| For the pilotage of any vessel in tow, or propelled by steam (except as hereinafter mentioned), for each foot of draught of water: |
| Upwards \$1 50 Downwards 1 50 |
| For the pilotage of any sea-going vessel propelled by steam, for each foot of draught of water: |
| Upwards 1 $87\frac{1}{2}$ Downwards 1 $87\frac{1}{2}$ |
| For the pilotage of any vessel under sail, for each foot of draught of water: |
| Upwards 3 15 Downwards 2 10 |
| From the harbour of Quebec to the harbour of Montreal, or to any place above Sorel and below the harbour of Montreal: |
| For the pilotage of any vessel in tow, or propelled by steam (except as hereinafter mentioned) for each foot of draught of water: |
| Upwards \$2 00 Downwards 2 00 |
| For the pilotage of any sea-going vessel propelled by steam, for each foot of draught of water: |
| Upwards 2 50 Downwards 2 50 |
| For the pilotage of any vessel under sail, for each foot of draught of water: |
| Upwards 4 20 Downwards 2 80 |

From the harbour of Montreal to Sorel, or to any place above Sorel and below - Hochelaga, and from Sorel, or any place above Sorel and below Hochelaga, to the harbour of Montreal, for each foot of draught of water for each such pilotage:

| Upwards . | | | | | 00 |
|-----------|-----------------------------------------|------|------|---|----|
| Downwards | • • • • • • • • • • • • • • • • • • • • | | | 1 | 00 |

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For the removal of any vessel from one wharf to another, within the limits of the harbour, or from any of the wharfs into the Lachine Canal; or out of the said canal to any of the wharfs in the harbour; or from the foot of the current; or from Longueuil into the harbour; or from the harbour to the foot of the current or to Longueuil; for each service \$5.

The following is a list of accidents and mishaps which called for investigation:

At 1.10 p.m., on May 14, the ss. Gallia, in charge of Pilot Zéphirin Bouillé, in rounding Point aux Soldats, a little above Stone Island lighthouse, near Sorel, grounded in the mud.

The pilot reported at length and claimed that the cause of the accident was the

sudden jamming of the wheel.

After a careful inquiry and a visit to the scene of the accident, in company with the Chief Engineer of the Department of Marine and Fisheries, the commissioners came to the conclusion that the grounding was due to the three causes:

1. To the inefficiency of the steam steering gear of the vessel.

2. To the want of proper and constant supervision on the part of the captain, as he is always in charge of his ship.

3. To the error of the pilot in allowing the steamer to come at full speed around the bend in the river, and, in consequence, the pilot was suspended for two months.

The vessel was afterwards successfully floated, and an examination of her hull

proved that no injury had been sustained.

The following complaint was received from Messrs. Furness, Withy & Co., Ltd.: We desire to advise you that Pilot Liboire Perrault, in charge of the ss. Sophie Rickmers, when leaving this port on August 10, did some damage to the ss. Philadelphian of the Leyland Line. The damage to this steamer can only be attributed to the very faulty handling and incompetent management of this pilot, inasmuch as the damage was caused through his incompetency; and, again, it occupied some time, some two or three hours, to get the steamer clear of her berth. There has been further damage to a barge, which was moored at the end of Victoria Pier, through the steamer having approached too closely to the end and colliding with the barge when turning.

The commissioners held an investigation and suspended the pilot for a period of

two months.

Coming up the river on August 5, the ss. Turret Court in charge of Pilot Néré Bellisle, about a mile and a half below Pointe à Citrouille lighthouse, Batiscan, ran into ss. Ramillies, which was coming from an opposite direction and was heavily loaded.

Both vessels sustained injury, the Ramillies had to be beached, but was afterwards

got off and both vessels continued their voyage.

Although no complaint was lodged, the commissioners decided to hold an investigation, and, after hearing both pilots, it was deemed advisable to examine one of the officers of the *Turret Court*, who was duly summoned to appear, but failed to do so, and the investigation is still pending.

Coming down the river with the ss. Greta Holme on September 4, Pilot Jean Arcand grounded the ship about 250 feet below the black buoy at Point Verchères.

Upon a complaint being made, an investigation was held, the result of which was that the commissioners decided to suspend the pilot for ten months and condemned him to pay the costs of the investigation. The vessel sustained no injury.

Coming down the river on October 25, the ss. Turret drawing twelve feet, grounded near Verchères, while in charge of Pilot Arthur Bellisle. No damage to the

ship.

A complaint was laid against the pilot by the owners of the vessel, Messrs. Peterson, Tate & Co., and, after a careful investigation, Pilot Bellisle was suspended, until August 1, 1900.

He took a writ of certiorari, and the case is pending in the Superior Court.

In connection with these accidents, it may be remarked that about one hundred vessels (out of a total number of 801 sea-going vessels), passed down the channel during the season drawing 26 feet and over and up to 28 feet 7 inches.

The water in the channel kept at a fairly satisfactory depth throughout the season, except in the three last months, when it went below the normal, 27 feet 6 inches, several times. From May 1 to the close of ocean navigation, the highest mark reached was 36 feet 8 inches, and the lowest 26 feet 8 inches, on October 26.

Appended is a list of ves-els which passed down during the latter part of the season drawing 26 feet and over, with the relative depth in the channel on the day of passage, as indicated by the Government gauge at Sorel:

STATEMENT showing Draught of Steamships for part of Season of 1899, drawing 26 feet and over.

| | Date. | | Stea | mer. | Draft when stationary in harbour by Pilot's Report | | | | |
|-------|------------|-----|------------------|-------|-------------------------------------------------------------|------|-------------|-----|---------|
| | | | | | | Ft. | in. | Ft. | in. |
| Aug. | 2 | SS. | Roman | (down | n) | 27 | 6 | 28 | 4 |
| 11 | 3 | | Sedgemore | *** | | . 26 | 6 | 28 | 4 |
| " | 3 | ŀ | Lake Huron | | | 26 | ŏ | 28 | 4 |
| 11 | 4 | | Monteagle | 11 | **** | . 26 | Ō | 28 | 4 |
| ** | 4 | 1 | Virginian | ** | | 26 | $\tilde{2}$ | 28 | 4 |
| ** | 5 | ļ | Vancouver | ** | | 26 | 4 | 28 | 4 |
| | 8 | | Pomeranian | 11 | | 27 | 8 | 28 | 3 |
| ** | 9 | | Torr Head | ., | | 26 | Õ | 28 | 1 |
| ** | 10 | | Monterey | - 11 | | . 26 | 6 | 28 | 1 |
| ** | 10 | i | Laurentian | 11 | | 27 | ž | 28 | ī |
| *1 | 11 | | Manchester City | | | 26 | 3 | 27 | 11 |
| ** | 12 | | Dominion | | | . 26 | 6 | 27 | 9 |
| ** | 13 | | Hurona | | *** ************* | 27 | ŏ | 27 | 9 |
| 11 | 13 | 1 | Pinemore | 11 | | . 26 | 6 | 27 | 9 |
| 11 | 17 | | Sardinian | ** | *** *** | . 26 | 2 | 27 | 2 |
| 11 | 18 | | Ikbal | | | 26 | $\bar{6}$ | 27 | 2 |
| | 19 | | Cambroman | ** | | . 26 | 0 | 27 | 3 |
| ** | 22 | | Sarmatian | ** | | . 26 | 6 | 28 | 1 |
| ** | 2 5 | | Milwaukee | | | . 27 | Ŏ | 28 | $ar{2}$ |
| ** | 31 | | Maplemore | ,, | | 26 | ŏ | 26 | 7 |
| Sept. | 1 | | Iona | 11 | | . 26 | 6 | 27 | Ò |
| 11 | 7 | | Fremona | | ***** | 26 | 3 | 26 | 9 |
| 11 | 13 | ! | Pomeranian | | | . 26 | ŏ | 26 | 6 |
| 11 | 21 |] | Monterey | ., | | 26 | ŏ | 27 | 6 |
| Oct. | 5 | | Montfort | | | . 26 | ě | 28 | 5 |
| 11 | 5 | | Ottoman | 11 | | 26 | ŏ | 28 | 5 |
| 11 | 7 | | Vancouver | ., | | 26 | 6 | 28 | 7 |
| - 11 | 8 | | Manchester Enter | | | 26 | Ğ | 28 | 5 |
| 11 | 12 | 1 | Monteagle | 11 | | 26 | Ō | 27 | 8 |
| 11 | 17 | : | Pomeranian | 11 | | . 26 | 6 | 27 | 3 |
| Nov. | 3 | 1 | Amarynthia | | | 26 | | 28 | 0 |

On September 16 an investigation was held by the commissioners on a complaint made by pilots Gédéon Groleau and Jean Arcand against Jean Nault, line pilot, of having piloted the ss. Gallia from Sorel to Quebec. The complainants claimed that this ship should have been piloted by a tour de role pilot.

After hearing the parties, the commissioners took the case en délibéré.

The semaphores of Cap Santé and Cap à la Roche were worked throughout the season, and were of great benefit to the pilots passing at those places at the lower stages of the tide.

In view of reports that certain vessels had been discharging ashes in the channel, the same notice to mariners as was published in last year's report was sent to the shipping firms and pilots.

The usual edition of the tide-tables which were furnished by the Department of Marine and Fisheries was issued by the commissioners in both English and French and was very freely distributed among the pilots and the shipping firms.

I have the honour to be, sir,

Your obedient servant, DAVID SEATH,

63 VICTORIA, A. 1900

HARBOUR COMMISSIONERS OF MONTREAL, SECRETARY'S OFFICE, MONTREAL, January 10, 1900.

F. GOURDEAU, Esq.,

Deputy Minister of Marine and Fisheries, Ottawa.

SIR,—I have the honour, by direction of the Harbour Commissioners of Montreal, to transmit you herewith, for the information of the Honourable the Minister of Marine and Fisheries, the usual statements (1) receipts and disbursements of the Montreal Decayed Pilots' Fund for the year ended December 30, 1899, and (2) assets of the fund at December 30, 1899.

The following is an abstract of the former:-

RECEIPTS.

| 5 per cent pilotage du | ies, collected at Montreal | \$ | 3,540 | 61 |
|------------------------|-------------------------------------|----|-----------|----|
| | " Three Rivers and Batiscan | | 55 | 90 |
| " | " " Sorel | | 19 | 77 |
| ** | | | 21 | 27 |
| Amount collected and | d applied under paragraph 62 of the | | | |
| | t | | 54 | 00 |
| | | | 3,691 | 55 |
| Interest on investmen | nts and cash in bank | | 2,325 | |
| interest on investmen | its and cash in bank | | 2,020 | |
| | Total | \$ | 6,017 | 12 |
| | DISBURSEMENTS. | | | |
| Pensions to old pilots | and widows of pilots and minors | \$ | 5,189 | 88 |
| Audit of the fund for | 1898 | " | | 00 |
| Postage stamps and s | tationery | | 10 | 00 |
| | | # | 5.224 | 88 |

Showing a gain for the year of \$782.14.

Pilot Louis Bellisle of Deschambault, who was licensed on February 28, 1872, died on December 28, 1898, aged 53 years, and his widow died on January 3, 1899, leaving three minor children to whose tutor a pension of \$37.33 per quarter was granted.

Retired Pilot George Raymond, of Deschambault, licensed on June 20, 1861, and placed on the pension list on July 1, 1889, died on October 30, 1899, aged 70 years.

Widow J. Leandre Dessureau, of Sorel, who had been a pensioner for nine years, died on April 9, 1899, and as is customary the full pension for the current quarter, ending April 30, was paid to her legal heir.

Pilot Zéphirin Bouillé, of Deschambault, who was licensed on March 1, 1855, and the senior pilot, whose license was renewed at the opening of the navigation season, resigned and was placed on the pension list from August 15, 1899.

At the close of the year there were twenty-two pensioners, namely, nine old pilots, twelve widows and the minors of one pilot.

I have the honour to be, sir,

Your obedient servant,

DAVID SEATH,

Secretary.

| SESSI | ONAL | PAPER No. 11b | • |
|--------------------------------------------------------------------------|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CR. | e cts. | 28888888888888888888888888888888888888 | 21 8388888888888888888888888888888888888 |
| VID SEATH, Treasurer, in Account with the Montreal Decayed Pilots' Fund. | By pensions paid to the following, for three months ending | Widow L. David Bouillé, Deschambault "Jobs Leandre Dessureau, Sorel. "Athanase Dufresne, Deschambault "Victor Gagnou, Champlain. Placide Gallardet, St. Gregorie le Grand Alexis Gauthier, Deschambault J. Octave Hamelin J. Octave Hamelin Joseph Lise David Mathieu, Grondines Zéphirin Mayrand, Contreceur Edouard Naud, Sorel. Joseph Toupin, Champlain Old Pilot Cyrille Belliale, Deschambault. "Damase Cayen, Portnet François Desjordy, Lavaltrie. J. B. Dorvali, Cap de la Madeline François Desjordy, Lavaltrie. J. B. Dorvali, Cap de la Madeline Prierre Gagnon, Three Rivers Augustin Naud, Montreal. David Perrault, Deschambault. "Augustin Naud, Montreal. David Perrault, Deschambault. "George Raymond, St. Casmir. | By pensions paid to the following for three months ending May L. David Bouillé, Deschambault Joseph Leaudre Deschambault Athanase Dufreane, Deschambault Victor Gagnon, Champlain Placide Gaillardet, St Gregoire Edouard Naud, Sorel Alaxis Gauthier, Deschambault J. Octave Hamelin J. Octave Hamelin J. Octave Hamelin Joseph Leveillé, Montreal Adolphe Lise David Mathieu, Grondines Zéphirin Mayrand, Coutrecceur Joseph Toupin, Champlain Heirs Louis Bellisle, Deschambault, from December 28, 1898 |
| ith the | 1899. | Feb. | May 3 |
| Account w | \$ cts. | 1,020 00 1,020 00 437 05 1 50 125 00 125 00 | |
| DAVID SEATH, Treasurer, in | | | Montreal harbour coupons, due July 5, 1899— Series R, Nos. 20 and 102 = 2 × \$15 00 = \$3 0 00 " R " 42 and 117-119 = 4 × 30 00 = 120 00 " R " 164-182 = 9 × 20 00 = 150 00 " F " 164-182 = 9 × 20 00 = 150 00 " H " 64-65, 139-142 = 6 × 20 00 = 120 00 Filot J. S. Labranche, \$\$\\$\$ of pilotage dues on yacht Thetis, from Montreal to Quebec, draught 9 feet. Collector of Customs, Montreal, \$\$\\$\$\$ Trinity dues collected in August. Plot George Arcand, \$\$\\$\$\$ of pilotage dues on H.M.S. Pearl, Quebec to Montreal, draught 17 feet 2 inches Pearl Montreal to Quebec, draught 17 feet 2 inches Pearl Montreal to Quebec, draught 17 feet 2 inches Pearl Montreal to Quebec, draught 17 feet. |
| Dr. | oi oi | Feb. 2 May 31 June 16 " 30 July 19 " 31 | Aug. 23 Cept. 20 |

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| CR. | ets. | : | 88888888 88888888 8 | 28888888888888888888888888888888888888 | 888 888 | 8885 8888 | 29 33 37 33 37 33 37 33 |
|-------------------------------------------------------------------------------|---------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| SEATH, Treasurer in account with the Montreal Decayed Pilots' Fund—Continued. | 1899. | Brought forward | Old Pilot Cyrille Belisle, Deschambault. " François Desjordy, Levaltrie. " François Desjordy, Levaltrie. " François Desjordy, Levaltrie. " J. B. Dorval, Cap de la Madeline. " Pierre Gagnon, Three Rivers. " Augustin Naud, Montreal. " Augustin Naud, Montreal. " George Raymond " " George Raymond " " Treffle Toupin, Normandin " Treffle Toupin, Normandin " December 31, 1898. December 31, 1898. Aug. 3 By pensions paid to the following for three months, ending | Widow L. David Bouille, Deschambault, Athanase Dufresne "Yiebr Gagnon, Champlain "Yiebr Gagnon, Champlain "Pacide Gaulardet, St. Gregoire "Alexis Gauthier, Deschambault "J. Octave Hamelin "J. Octave Hamelin "J. Octave Hamelin "J. Octave Hamelin "J. Octave Hamelin "J. Octave Hamelin "J. Octave Hamelin "J. Octave Hamelin "J. Octave Hamelin "J. Octave Hamelin "J. Octave Hamelin "J. Octave Hamelin "J. Octave Hamelin "J. Octave Hamelin "J. Octave Hamelin "J. Octave Hamelin "J. Octave Hamelin "J. Octave Hamelin "J. Octave Hamelin "J. David Palisle "J. P. Dorn" J. Octavel J. Javaltrie | P. D. Colora, Optical Machenie. " Please Game, Three Rivers. " Augustin Naud, Montreal | By pension paic | Widow L. David Bouillé, Deschambault. Athanase Dufreane Victor Gagnon, Champlain Placide Gaillardet, St. Grégoire. |
| the M | | | | | | Nov. | |
| DR. DAVID SEATH, Treasurer in account with | es cts. | | 531 90 | | ; | 5 75 35 33 18 67 | 470 60 |
| | | Brought forward | Collector of customs, Montreal, # Trinity dues collected in September | | 2 To Pilot O. Naud, five-sevenths of pilotage dues on H.M.S. Talbot, Quebec to Montreal and return, draught 21 | feet. The Imperial Oil Company, Ltd., pilotage dues on barges 52 and 72 Quebec to Montreal, each with draught of 8 feet 10 inches = 17 ft. 8 inches at \$2 per foot. Montreal to Quebec, each with draught of 4 feet 8 inches = 9 feet 4 inches at \$2 per foot | <u> </u> |
| | 1899. | | Sept. 30 | | 0ct. 2 | • | ਸ਼ - |
| | • | | 9 2 | | _ | | |

| 33.33 34.33 34.33 35.33 35.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 36.33 | 8338 | 8888 8488 8488 | 888 888 | 888 888 | 888 | 268 268 268 268 | 10 00 3,459 98 | 8,684 86 |
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| Alexis Gauthier, Deschambault | David Mathieu, Grondines "Zéphirin Mayrand, Contreceur | Ledouard Naud, Sorel. Joseph Toupin, Champlain Hers Louis Bellisle, Deschambault. | Old Fliot Cyfile Beliste, " " Damase Cayen, Portneuf " Francois Desiordy, Lavaltrie | J. B. Dorval, Cap de la Madeline Pierre Gagnon, Three Rivers | Augustin Naud, Montreal. David Persult, Deschambault. | Grenge And mona " Trefffe Toupin, Normandin Zenhirin Bonille, Deschambult | Stationery and postage on pensions remitted during 1899 Balance to January 1900. | |
| | | | | | | | | |
| 68 2 | 1 35 | 8 8 | 2 K | 8 8 | 4 55 | 12 6 | 5 57 | 4 86 |
| 2 39 | 1 25 | | 345 95 | | 24 55 | 19 77 | 35 57 | 8,684 86 |
| | | o Montreal and return, draught 16 sevenths of pilotage dues on barge | ò. | | | Sorel, five-sevenths Trinity dues | Montreal City and District Savings Dans, Interest at rate of 3 per cent per annum on money at deposit 35 57 during 1889. | 8,684,86 |
| | | | ò. | Collector of customs, Three Rivers, five-sevenths Trinity dues for season 1899 | Collector of custons, Montreal, five-sevenths Trinity dues balance for 1899 | Collector of customs, Sorel, five-sevenths Trinity dues for seaou 1899. | per annum on money at deposit | 8,684 86 |

DAVID SEATH, Treasurer in account with the Montreal Decayed Pilots' Fund-Continued.

STATEMENT OF THE FUND.

| | | Series. | Nos. |
|-----------|---------------------------------------------------------------|--------------|---------------|
| | Montreal Harbour debentures— | | ļ |
| 1,000 0 | Due 5th July, 1906, interest at 6 p.c. = 2 × 500 | \mathbf{R} | 20 and 102 |
| 4,000 0 | " 5th " 1906 " $6 \text{ p.c.} = 4 \times 1,000 \dots$ | R | 2 and 117-119 |
| 2,000 0 | 5th 1906 6 p.c. = $1 \times 2,000$ | R | 84 |
| 6,000 0 | " 5th " 1915 " $5 \text{ p.c.} = 6 \times 1,000 \dots$ | D | 21 and 45-49 |
| 9,000 0 | 5th 1917 4 p.c. = $9 \times 1,000$ | F | 164-172 |
| 2,000 0 | 5th 1918 4 p.c. = $2 \times 1,000$ | G | 289-290 |
| 2,000 0 | 5th 1921 4 p.c. = $2 \times 1,000$ | Н | 64-65 |
| 4,000 0 | 5th 1921 4 p.c. = $4 \times 1,000$ | H | 139-142 |
| 16,000 0 | " 5th " 1924 " 4 p.c. – 16 × 1,000 | J | 231 -246 |
| | City of Montreal Consolidated Fund— | | |
| 5,000 0 | Due 1st July, 1910, interest 5 p.c50 × 100 | | 165 |
| 3,459 9 | Cash in Montreal City and District Savings Bank at 3 per cent | | |
| 54,459 98 | | | |

DAVID SEATH.

MONTREAL, 31st December, 1899.

Treasurer.

We hereby certify that we have examined the entries for the year 1899 as recorded on the preceding pages and have found them to agree with vouchers on file, also that debentures and certificates to the amount of \$54,459.98 as described in statement on opposite page have this day been submitted for our inspection.

RIDDEL & COMMON, C.A.,

Auditors.

MONTREAL, 6th February, 1900.

HARBOUR COMMISSIONERS OF MONTREAL, SECRETARY'S OFFICE, MONTREAL, January 11, 1900.

F. GOURDEAU, Esq.,

Deputy Minister of Marine and Fisheries, Ottawa.

Sir,-I have the honour to inform you that in the report of the Montreal Decayed

Pilots' Fund forwarded to you yesterday, I omitted to insert the following:-

'Before the opening of navigation, Pilot François Desjordy, of Lavaltrie, who had been on the pension list since May 1, 1897, on account of impaired eyesight again submitted medical certificates to the effect that his sight had not improved. In view thereof he was continued as a pensioner until May 1, 1900.'

I have the honour to be, sir.

Your obedient servant,

DAVID SEATH.

Secretary.

APPENDIX No. 10.

REPORT OF THE PILOTAGE AUTHORITY OF QUEBEC FOR THE YEAR ENDED DECEMBER 31, 1899.

Quebec, January 2, 1900.

To the Honourable Sir L. H. DAVIES,
Minister of Marine and Fisheries,
&c., &c., &c.,
Ottawa.

Sir,—In compliance with the requirements of the Pilotage Act, 36 Victoria, chapter 54, section 22, I have the honour to submit the following report from the Quebec Harbour Commissioners as pilotage authority for the year 1899.

SERVICE OF THE PILOT STATIONS.

The operations of the year began by the sailing, on April 17, of the pilot schooner No. 2 with eight pilots.

On April 28, pilot schooner No. 1 left with twelve pilots, and on May 18, pilot schooner No. 5 took down ten pilots.

On May 4, 10 and 12, twenty pilots were dispatched to pilotage grounds over the Intercolonial Railway.

As usual, all the pilot stations have been provided with pilots during the season through the Intercolonial Railway and the pilot schooners, and the service has been performed to the satisfaction of the commissioners.

OLD PILOTS.

Previous to the opening of navigation, nine of the old pilots who had attained the age of sixty-five and over, were summoned before the commissioners under the authority of the 32nd section of the Pilotage Act, in order to ascertain whether they could continue in the exercise of their duties for the ensuing year. These old pilots had previously to this all passed an examination before a specialist, selected by the pilotage authority, as to their eyesight, colour sight and hearing, and upon this final examination, were all found competent to perform their duties, and their licenses were accordingly renewed for one year.

At a subsequent meeting of the pilotage authority, Pilot George Normand, of Crane Island, after passing all the necessary examinations, had his branch renewed for one year.

PILOTS SUPERANNUATED.

Two pilots have been placed on the retired list during the year, viz. :

Ant. Thos. Chouinard, of Pointe-au-Père.

Jos. Pepin dit Lachance, of Quebec.

Mr. Chouinard was branched in 1864 and had thus seen thirty-five years' service, and Mr. Lachance who received his branch in 1865 had thirty-four years' service to his credit.

11b-7

ADMISSIONS TO PRACTICE.

Section 24 of the Pilotage Act provides that no new license shall be granted by the pilotage authority of the district of Quebec until the number of pilots in the said district is reduced below one hundred and twenty-five. This limitation having been reached through deaths and superannuations, three apprentices who had passed their time and had been waiting admission for some years, were, after a most thorough examination by the pilotage authority, in which they were assisted by Messrs. L. R. Demers and A. Sansterre, two of the most experienced pilots of the river, admitted to practice as branch pilots for and below the harbour of Quebec, their names being:—

Adélard Vézina, of St. Michel, Bellechasse, Jean Baptiste Pouliot, of St. John, Orleans, Joseph Thivierge, of St. John, Orleans.

The number of pilots on the active list now stands at the prescribed limit of 125.

DEATHS.

Three pilots have died during the year: Mr. Antoine Gobeil, No. 1 on the active list of pilots, Mr. Charles Vézina, No. 7 and Mr. Josalias Philéas Langlois, No. 76.

Messrs. Gobeil and Vézina had a long and successful career as pilots. Mr. Gobeil branched in 1850, having forty-nine years of service to his credit. Mr. Vézina branched in 1854, had forty-four years' service; and Mr. Langlois branched in 1877, had seen twenty-two years of service.

The commissioners are pleased to be able to state that all of these pilots have left good and clear records. Mr. Ant. Gobeil, who had been piloting nearly half a century, a large portion of this time as one of the pilots employed by the Allan Line, has not an accident or complaint of any kind appearing against him in his official record.

TRIALS.

Two complaints were lodged against their pilots by masters of vessels during the season of navigation. The first was by the master of the barge *Rembrandt* against pilot No. 77 for grounding that barge on St. Anne shoals. Vessel came off without damage, but to do so had to discharge a portion of her coal cargo. Vessel left port the day the complaint was lodged (August 30) and as she did not return again during the season case could not be gone on with.

The second complaint was by the master of the ss. Almerian against pilot No. 119 for running that vessel ashore at Beaumont Reef. Trial was held on September 18, 20 and 25, the pilot being found guilty and suspended to June 1, 1900.

Complaint was lodged by the Corporation of Pilots against pilot No. 92 for assaulting one of their directors; but on a written apology being made it was withdrawn and action was not proceeded with.

Under the commissioners' by-law authorized by sub-section j of section 5, sworn complaint was lodged against pilot No. 19, that owing to the bad condition of his eye-sight that he was unable to perform his duties as a pilot. Action was dismissed, it being guaranteed by the direction of the Corporation of Pilots that this pilot had not been allowed and would not be allowed to pilot until his eyesight was perfectly restored to the satisfaction of the commissioners.

A statement annexed to this report conveys all the particulars as to the nature of the complaint and the result of the investigation in each case.

APPRENTICE PILOTS.

Three apprentice pilots having been admitted to practice during the season, leaving five on the list. Of these only three are to be counted, as Messrs. Dugal and Nolet, through their long absence are considered to be dead.

These three apprentices cannot be admitted to practice before the number of pilots on the active list is reduced to one hundred and twenty-five, as provided for in the Pilotage Act, 36 Victoria, chapter 54, section 24.

PILOTAGE EARNINGS.

According to a return received from the secretary-treasurer of the Corporation of Pilots for and below the harbour of Quebec, their gross earnings for the season have been one hundred and twenty-nine thousand and forty-nine dollars and forty-seven cents (\$129,049.47).

Out of this one hundred and twenty-four thousand three hundred and eighty-six dollars and ninety-five cents (\$124,386.95) was received from eight hundred and sixtynine British vessels, and the halance, four thousand six hundred and sixty-two dollars

and fifty-two cents (\$4,662.52) from sixty foreign craft.

The total expenses (including percentage for pension fund) have been twenty-two thousand six hundred and eleven dollars and thirty-three cents, leaving a balance of one hundred and two thousand four hundred and thirty eight dollars and fourteen cents, to be divided among an average of 122 and 123 pilots, giving them a net dividend of eight hundred and thirty-two dollars and eighty-three cents (\$832.83) each.

RANGE AND RIVER LIGHTS.

Commissioners have improved their range lights by duplicating them, thus doubling

their power and insuring in any case one lamp being in operation.

Commissioners have also urged upon the Department of Marine and Fisheries, that the only satisfactory solution of lighting the traverse would be by the construction of two crib blocks and the erection of permanent lighthouses on them, and have also urged the placing of a revolving light at the west point of the Island of Orleans, a gas buoy on the Beauport Beach, and that any gas buoys not already occulting be made so.

DIRECTORS OF THE CORPORATION OF PILOTS.

At their annual meeting held on the eleventh day of December last, the pilots elected the following directors to their corporation for the ensuing year:

Messrs. L. E. Morin, Ed. Larochelle, sr., Jean Baptiste Tremblay, Arbel Bernier, Léon Labrecque and Jos. Pouliot, jr., and at a subsequent meeting of the new board, Mr. L. E. Morin was unanimously re-elected president.

Annexed to the present report are the various statements, not herein alluded to,

which contain all the information yearly conveyed to your department by the commissioners in their capacity of pilotage authority.

I have the honor to be, Sir,

Your most obedient servant,

JAMES WOODS,

Secretary-Treasurer.

PILOTAGE TARIFF.

RATES of Pilotage for the Harbour of Quebec and below, as per by-law passed by the Quebec Harbour Commissioners, on June 18, 1891, and sanctioned by His Excellency the Governor General in Council, on June 26, 1891.

TABLE I.

RATES of Pilotage for the Harbour of Quebec and below, for each foot of draught of water.

| From | То | From May 1 to Nov. 10. | From Nov. 10 to Nov. 19. | From Nov. 19 to Mar. 1. | From March 1 to May 1. |
|-----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------|--------------------------------|-------------------------------|------------------------------|
| , | Anchorage or mooring ground in the basin or harbour of Quebec | | \$4.95 | \$6.02 | \$ 4.41 |
| The anchorage ground at the Brandy Pots off Hare Is- land or any place above the said anchorage ground and below St. Roch's Point | | |] | <u>2</u> | 25 " |
| St. Roch's Point or any place above this Point and below the Pointe-aux-Pins, on Crane Island | " " | <u>.</u> | 1 | <u>.</u> | 3 |
| Pointe-aux-Pins or Crane Island or any place below St. Patrick's Hole The anchorage or mooring | 1 11 11 | 1 " | 1 " | ‡ " | 1 " |
| ground in the Basin of the Harbour of Quebec | Bic Island or the place where the pilot shall be discharged in the river below Quebec | .] | \$4 .46 | \$ 5.5 4 | \$3.93 |

TABLE II.

RATES of Pilotage for the Harbour of Quebec and below.

| From | То | \$ cts. |
|-------------------------------------------------|------------------------------------|--------------|
| Any place in the harbour of Quebec, not being a | Any other wharf within said limits | 2 50 5 00 |

Pilots taking charge of vessels at St. Patrick's Hole or above it, shall be entitled to no more than the sum allowed in Table II for piloting vessels from one part of the harbour to another.

J. B. LALIBERTÉ, Chairman.

JAS. WOODS, Secretary-Treasurer.

HARBOUR COMMISSIONERS' OFFICE, QUEBEC, January 3, 1900.

SESSIONAL PAPER No. 11b

who retired, struck off the active list, or died during the year, the number temporarily suspended, the number who were unable to serve, the number in charge of Government steamers, &c. STATEMENT showing the number of Pilots for and below the Harbour of Quebec, on the active list, on December 31, 1899, the number

| NA | L PAPE | H No. 11b | | |
|----|------------------------------------|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| | | Casualties and Remarks. | Employed by the Allan Line—Died suddenly August 11, 1899. Absent one month. Sick part of the season. Eurployed by the Thompson Line. President of the Corporation of Pilots. Re-elected at last election. Employed by the Black Diamond Line. Sick all the season. One of the directors of the Corporation of Pilots. Re-elected at last election. One of the directors of the Corporation of Pilots. Re-elected at last election. Office keeper. Employed by the Dominion Line. " Black Diamond Line. " Black Diamond Line. Pensioned July 20, 1899. Master of the Savuenay Station. | Sick part of the season. (Absent.) Employed by the Black Diamond Line. Master of pilot schooner Price. |
| | . G. H | Моуажев. | こちもももももももものもこ ももこも〇〇 〇ここのの〇 | 81010 |
| | Number of Pilotage effected. | Outwards. | 204488777488144 | 80010 |
| | OF BE | .sbrawnI | 0000444404000001 441000 1811400 | 20010 |
| | | Residence. | St. John Orleans Quebec St. John, Orleans. Crane Island Trois-Pistoles St. Michel, Bellechasse Lauzon, Lévis St. John, Orleans. Quebec St. John, Orleans. St. John, Orleans St. John, Orleans St. John, Orleans St. John, Orleans St. Jaurent, Orleans St. John, Orleans St. John, Orleans St. John, Orleans Tadonsac | Orleans " nille, Orleans |
| | | Age. | 1528585858888888 248 888 244 88 | 882822 |
| | | Name. | Antoine Gobeil Charles Francis Brown Paul Paquet Joseph Pouliot Georges Normand David Damour Charles Vézina. Numa Lachance. Joseph Gravel. Auguste Coullard Després. Jean-Bee. Pouliot. Jean-Bee. Pouliot. Jean-Gobeil. Joseph Paquet. Louis Edmond Morion Moïse Lachance. Joseph B. Brown. Hubert Raymond. Achille Damour. Joseph Pouliot. Laurent Godbout. Laurent Godbout. Achille Damour. Joseph Pouliot. Laurent Godbout. Bar. Pepin dit Laplante. Fra. Xav. Delisle. | Cyprien Langlois Jean Delisle Nazaire, Curodeau Charles Normand. |
| | | Number. | 18842888 2882888 181811 1818 1818 1818 1 | |

STATEMENT Showing the Number of Pilots for and below the Harbour of Quebec-Continued.

| | | | | | | | | | | | | | | | 00 | ٧. | 01 | O. | | , , | | - |
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| | Casualties and Remarks. | One of the directors of the Corporation of Pilots. Re-elected | at last election. | Employed by the Beaver Line. | full proyect by the prominion same | Employed by the Thompson Line. | One of the directors of the Corporation of Pilots. Re-eletced at | ast erection: Employed by the Quebec Steamship Co. Carbray-Routh Co. | " Allan Line. | Holme Line. | | " Black Diamond Line. | = | Sick all the season. | Employed by the Beaver Line. International Coal Co. | " Black Diamond Line. | = | | " Black Diamond Line. | " Ross Co.'s Line. | " Black Diamond Line. "Allan Line. | |
| GES D. | Movages. | 6 | , | | - 010 | 400 | • • | 67 | 0 | -0 | 4- | +0 | | • • • | - r | 0 | ₩- | 0 | ⊢ ₹ | | | |
| NUMBER OF PILOTAGES EFFECTED. | .ebrawtuO | - | > 1 | .~ 10 è | 3100 | . E | 90 | 15 | 12 | 42 | eo - | 12,4 | 92 | 0 | <u>4</u> & | ∞ | es 55 | 18 | 12 | ာမာ | 212 | 7. c |
| OF] | Inwards. | | > | <u> </u> | 4,0, | 91 91 | 90 | 15 | 18 | E 7 | 4, 1 | . <u> </u> | 2. | * 0 | ∞ <u>;</u> c | 2 1- | ಬ ಪ | 8 | IĬ | o r- | 112 | 44 |
| | Residence. | | Anepec | Notre-Dame, Lévis | St. John, Orleans | Chateau-Richer | St. Michel, Bellechasse | Quebec. | Ouebec. | St. John, Orleans | St. Michel, Bellechasse | St. Laurent, Orleans. | | St. John, Orleans | St. Michel, Bellechasse | **Compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to | $\overline{}$ | St. Joseph, Lévis | Montreal | Ste. Luce, Kimouski | | St. John, Orleans Ste. Pétronille, Orleans |
| The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s | Age. | 1 | 8 | % 8 | 25.52 | 2 2 | 22 22 | 53 | 2 2 | 187 | 22 | 38 5 | 3.78 | ± ₹ | 64.2 | 22 | 122 | 2 4 | 8 | 83 | 223 | \$ 12 6 |
| | Name. | | Jean-Bte. Tremblay | Ray. Baquet dit Lamontagne FrsXav. Lamarre | Moïse Pouliot. | Chs. Alarie Raymond | L. B. O. Goutron dit Larochelle Chs. Hermie alias A. Bernier | Louis Robert Demers | Vital Ephrem Chamberland | Joseph Fortier | Nestor Lachance Cyrille Audet dit Lapointe | Joseph Lapointe | There Fepin an Lachance Théophile Gourdeau | Isiode Noël | Alfred Larochelle. | Théophile Corriveau | Pierre Gobeil | Theodule Fepin dit Lachance | Jean Bte, Patoin. | Narcisse Lavoie | Louis Albert Royer. | Adelard Santerre. Onésime Noël. Napoléon Baillargeon |
| | Yumber. | 1 | 엃 | | | 88 | | | | | | | | | | | | | | | 35 | 222 |

| SESSIONAL PAPER No. 11b |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Re-elected |
| Master of pilot schooner Vigie. Employed by the Black Diamond Line. Sick one month. Employed by the Black Diamond Line. Died the April 30, 1899. Employed by the Hamburg-American Packet Co. Allan Line. In Black Diamond Line. One of the directors of the Corporation of Pilots. at last election. Employed by the Ross Line. One of the directors of the Corporation of Pilots. at last election. Employed by the Ross Line. One of the directors of the Corporation of Pilots. at last election. Employed by the Ross Line. Master of pilot's schooner Mouette. Employed by the Black Diamond Line. In Black Diamond Line. Black Diamond Line. Sick during three months. Employed by the Thompson Line. Black Diamond Line. Black Diamond Line. Employed by the Thompson Line. Black Diamond Line. Employed by the Honding Line. Black Diamond Line. Black Diamond Line. Employed by the Thompson Line. Black Diamond Line. Employed by the Thompson Line. Employed by the Thompson Line. |
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| |
| C-3545-5014-400-405881100 20 41170-4300005-4450007-445051304 |
| St. John, Orleans Notre Dame, Levis. Notre Dame, Levis. St. John, Orleans St. John, Orleans St. Laurent, Orleans St. Joseph, Levis St. Joseph, Levis St. Michel, Bellechasse St. John, Orleans St. Lauce, Rimouski Ste. Luce, Rimouski Ste. Luce, Rimouski Ste. Luce, Rimouski Ste. Luce, Rimouski Ste. Luce, Rimouski St. John, Orleans St. John, Orleans St. John, Orleans St. John, Orleans St. John, Orleans St. John, Orleans St. John, Orleans St. John, Orleans St. John, Orleans St. John, Orleans St. John, Orleans St. John, Orleans St. John, Orleans St. Taurent, Orleans St. John, Orleans St. Taurent, Orleans St. John, Orleans St. Taurent, Orleans St. John, Orleans St. Jaurent, Orleans St. John, Orleans St. Taurent, Orleans St. Jaurent, Orleans St. Jaurent, Orleans St. Jaurent, Orleans St. Jaurent, Orleans St. Jaurent, Orleans St. Jaurent, Orleans St. Jaurent, Orleans St. Jaurent, Orleans St. John, Orleans St. John, Orleans St. John, Orleans |
| 2444444444444444444444444444444444444 |
| 65 Jos. Frs. X. Bernier 66 Frs. X. Demeule. 67 Louis Honoré Lapierre 69 David Arthur Bouffard 70 Jean Théophile St. Laurent. 71 Jacques Georges Dugas. 72 Joseph Victor Gourdeau. 73 Louis alias Trefflé Delisle. 74 J. Bte. Couillard. 75 Chs. Pelletier 76 Samuel Rioux. 77 Nazaire Delisle. 77 Adjutor Balilargeon. 82 Samuel Rioux. 83 Samuel Rioux. 84 Adjutor Balilargeon. 85 Faul Lachance. 86 Joseph Pouliot. 87 Joseph Larchelle. 88 Adjutor Lachance. 88 Adjutor Lachance. 89 Frs. Gaudreau 88 Adjutor Lachance. 89 Frs. Gaudreau 80 Arthur Koenig 89 Joseph Lachance. 80 Joseph Lachance. 80 Joseph Lachance. 81 Joseph Lachance. 82 Joseph Lachance. 83 Joseph Lachance. 84 Adjutor Lachance. 85 Joseph Lachance. 86 Joseph Lachance. 87 Joseph Lachance. 88 Joseph Lachance. 89 Joseph Lachance. 89 Joseph Paquet. 89 Joseph Paquet. 80 Jean A. Lachance. 80 Jean A. Lachance. 80 Jean A. Lachance. 81 Jean Baillargeon. 82 Joseph Vezina. 83 Joseph Vezina. 84 Julia Asselin. 85 Julia Asselin. 86 Julia Asselin. 87 Prudent Marmen. 88 Lucien Lachance. 89 Joseph Vezina. 80 Julia Asselin. 80 Julia Asselin. 80 Julia Asselin. 81 Mired Dion. 82 Mired Bailla Bernier. 84 Julia Barnier. 85 Julia Barnier. 86 Julia Asselin. |

STATEMENT showing the Number of Pilots for and below the Harbour of Quebec-Continued.

| Name. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residence. Residenc | Residence. Residence. Outwards. Outwards. Movages. |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|

JAMES WOODS,
Secretary-Treasurer.

Harbour Commissioners' Office, Quebec, January 2, 1900.

QUEBEC HARBOUR COMMISSION.

STATEMENT of Trials held, during the year 1899, before the Quebec Harbour Commissioners under the authority of the Pilotage Act, 36 Vic., chap. 54, and 45 Vic., chap. 32, sec. 4.

| Nature of Complaint. | Date of Trial. | Result. |
|-------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| at Beaumont Reef. Incapable of performing his duties | 25th of Sep- tember 27th June. | Found guilty and suspended to the 1st June, 1900. Dismissed. |
| | Running SS. "Almerian" ashore at Beaumont Reef. Incapable of performing his duties as a pilot owing to the bad con- | Running SS. "Almerian" ashore 10th, 20th and at Beaumont Reef. 25th of September Incapable of performing his duties 27th June. as a pilot owing to the bad con- |

QUEBEC, 2nd January, 1900.

JAS. WOODS. Secretary-Treasurer.

QUEBEC HARBOUR COMMISSION.

List of Apprentice Pilots immediatly under the Quebec Harbour Commissioners' Pilotage Authority, on the 31st December, 1899.

| Number. | Names. | When Indentured. | . Remarks. |
|------------------|------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ${f 1} \\ {f 2}$ | George Dugas. Ernest Nolet | 11th April, 1871 19th March, 1874 | Absent since the fall of 1877. Absent since the fall of 1878. (It is stipulated in the indentures of those |
| 3 4 5 | Léonidas Lachance., Eudore Langlois FrsX. Eustache Wm. Doiron. | " " " 12th July, " | It is stipulated in the indentures of those apprentices that they will not be admitted to pass their examination before the number of Pilots is reduced to 125 as provided for by the Act 45th Vic., cap. 32. |

HARBOUR COMMISSIONERS' OFFICE, Quebec, 2nd January, 1900.

Certified,

JAS. WOODS.

Secretary-Treasurer.

Quebec, December 30, 1899.

F. Gourdeau, Esq.

Deputy Minister of Marine and Fisheries,

Ottawa.

Sir,—I have the honour to forward a detailed statement in duplicate of the moneys received and expended by the Decayed Pilot Fund of Quebec, for the year 1899; a similar statement in duplicate of the moneys received and expended by the Corporation of Pilots for the year just ended; all of which revised and certified:-

> The total amount of receipts was...... \$129,049 47

to be distributed among an average of 122 to 123 pilots, giving to each a net dividend of \$832.83.

One hundred foreign vessels paid in \$4,662.52 and eight hundred and sixty-nine British vessels paid in \$124,386.95.

All of which is respectfully submitted.

F. X. DION,

Secretary-Treasurer.

THE CORPORATION OF PILOTS.

STATEMENT of Moneys received and disbursed by the Corporation of Pilots for the Decayed Pilot Fund of Quebec during the year 1899.

| RECEIPTS. | \$ | ets. | One Pilot at \$96. | \$ | ct |
|------------------------------------------|-------------------------|-------|----------------------------------|----------|-----|
| l'o balance of 1898 | 23,890 | 69 | Pelletier, François | 96 | 0 |
| capital remitted | 3,210 8,968 | | Three Pilots at \$88. | | |
| nterest on investments | 3,403 | | Charest, Pierre | 88 | ด |
| nterest from savings bank | | 48 | Pouliot, Paul | 88 | |
| - | 40,115 | 27 | Raymond, Léandre | 88 | 0 |
| Expenditure. | | | Onc Pilot at \$57, — | 264 | 0 |
| | 5 490 | | | | |
| By relief | $\substack{7,438\\499}$ | 98 | Forbes, James | 57 | 0 |
| By salaries | | 00 | | | _ |
| By deposit in savings bank | 31,520 | | Whows, | | |
| Balance on hand | 107 | 07 | M | | |
| - | 40,115 | 27 | Twenty-two Widows at \$70. | | |
| | | | Widow Audet, George dit Lapointe | 70 | 0 |
| PENSIONERS RELIEVED BY THE FUND. | | | Bernier, J Bte., on account | 52 | |
| Soboil Toom | 00 | 07 | Brown, Charles | 70 | |
| Hobeil, Jean | | 87 | " Caron, Maximin | 70 | |
| ddam, J. E. | | 00 | Delisle, Magloire | 70 70 | |
| Després, Auguste | | 00 | Dumas, François. | 70 | |
| ouliot, Joseph | | 00 | Dion, J. Bte. | 70 | |
| anglois, Philéas | | . 11 | Dick, Jos., died Sept. 24, 1898. | 10 | |
| - | | | " Godbout, Laurent | 7ŏ | |
| | 499 | 98 | " Girard, Dominique | 70 | |
| _ | | | " Gobeil, Antoine, pensioned | | |
| Pensioners at the expense of the | FUND | • | August 11, 1899 | 15 | |
| 100 - 04 0 12 4 77 1 7 1 mathematical | 37 | | Jouvin, Hilaire, on account | 52 | |
| Imount paid to Each during the year from | ı Noven | wer | Laprise, Louis | 70 | |
| 1, 1898, to November 1, 1899. | | | Langlois, Paul | 70 | |
| Ten Pilots at \$120. | | | Lavoie, Louis Joseph | 70 70 | |
| 2 cm · ttota da pino. | | | Marcoux, Edouard | 70 | |
| Souffard, David | 120 | 00 | Pelletier, Alexis. | 70 | |
| Chassé, Jean | | 00 | Pouliot, Jean | 7ŏ | |
| Couillard, Jos. Phil | | 00 | Vaillancourt, Alex | 70 | |
| Demers, Victor | | 00 | vézina, Charles, pensioned | • | |
| enest, Edouard | | 00. (| September 15, 1899 | 8 | 3 |
| Oufresne, Jérémie | | 00 | | | |
| Lapointe, Antoine | | 00 | TILL. TITLE | 1,329 | 1 (|
| Pouliot, Joseph | | 00 (| Eighteen Widows at \$66. | | - |
| Iénard, Régis | | 00 | Widow Bâquet, Annibal | 66 | ٠, |
| - | | | " Coulombe, Jean. | 66 | |
| | 1,200 | 00 | " Fontaine, Louis | 66 | |
| Three Pilots at \$110. | | | " Delisle, F. X | 66 | |
| | | | Dumas, Hubert | 66 | ; |
| erreault, Dominique | | 00 | " Forgues, Narcisse | 66 | ; |
| houinard, Thos., pensioned Apl. 1, 1899 | | 17 | Fontaine, Pierre | 66 | |
| achance, Jos., pensioned July 19, 1899. | 31 | 10 | Guénard, Michel. | 66 | |
| - | 202 | 5 27 | Lachance, F. X | 66 | |
| Two Pilots at \$100. | 200 | , 21 | Lachance, Barth | 66 | |
| 1 110 1 11018 Ut \$100. | | | Lamarre, Jean Frs | 66 66 | |
| Després, Abraham, died Jan. 2, 1899 | 17 | 25 | Laprise, Pierre | 66 | |
| t. Laurent, Amable, died Dec. 19, 1898 | 15 | 3 25 | Marticotte, Isaïe | 66 | |
| , , , , , , , , , , , , , , , , , , , , | | | Morency, Joseph | 66 | |
| | 30 | 50 | Raymond, Joseph, died April | 50 | |
| Two Pilots at \$98. | | | 14. 1899 | 30 |) |
| | | | " Ruelland, Pierre, arrears | 16 | |
| | Δ. | 3 00 | " " year | 66 | , |
| | | | | | |
| Dick, Ovide | | 3 00 | " Thievierge, Louis | 66 | ; (|

STATEMENT of Moneys received and disbursed by the Corporation of Pilots for the Decayed Pilot Fund of Quebec, &c.—Continued.

| | Nine Widows at \$65. | | Six Widows at \$40.80. | \$ cts. |
|-------|-------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-------------------------------------------|----------------------------------------------------------|
| | Adam, J. E | 65 00 | Widow Dandurand, Jacques | 40 80 |
| 11 | Babin, Damase | 65 00 | " Keable, André | 40 80 |
| 11 • | Demers, Edouard Dorion, Eustache | 65 00 | Morency, Guillaume | 40 80 |
| ** | Dorion, Eustache | 65 00 | " Pelletier, D. F | 40 80 |
| ** | rorum, Nicholas | 65 00 | Rouleau, Pierre | 40 80 |
| | Genest, Amable | 65 00 | Dallaire, Napoleon | 40 80 |
| ** | Gaudreau, François | 65 00 | | 244 80 |
| " | Lapointe, Joseph, on account. Leclerc, Ls. Ol | 48 75 65 00 | Six Widows at \$38.40. — | |
| | , | 568 75 | Widow Caron, Fabien | 38 40 |
| | | | " Côté, Magloire | 38 40 |
| | Six Widows at \$63. | | Langlois, Louis (A.R.) on acct. | 28 80 |
| | | | McNeil, Thomas | 38 40 |
| Widow | Boucher, Antoine, died March | | " Turgeon, Alfred | 38 40 |
| | 4, 1899. | 21 70 | " Larochelle, Laurent | 38 40 |
| 11 | Cinq-Mars, David | 63 00 | | |
| 11 | Crépault, Louis | 63 00 | | 220 80 |
| 18 | Curodeau, Pierre | 63 00 | CHILDREN. — | |
| ** | Mercier, Magloire | 63 00 | | |
| 11 | Roy, Alexis | 63 0 0 | Child of Boutin, Ths., inf., on acct. (1) | 13 50 |
| | | | Couillard, Hilaire(1) | 18 00 |
| | | 336 70 | Dugas, Jean, inf(1) | 18 00 |
| | | | Forbes, Isaac, inf., ac (2) | 24 75 |
| | Nine Widows at \$60. | | Fortin, Nicholas, inf., ac(1) | 9 00 |
| | 5 / 0 | | Giroux, Jean, inf(1) | 18 00 |
| Widow | Després, George, pensioned November 9, 1898 | *** | Jahan, Joseph, inf(1) | 18 00 |
| | November 9, 1898 | 59 10 | Langlois, Joseph, inf (1) | 18 00 |
| " | Fournier, Amable | 60 00 | Laprise, P. S., 15 years old.(1) | 14 35 |
| 17 | Glynn, Dennis | 60 00 | Toussaint, P., inf(1) | 18 00 |
| ** | Langelier, Fabien | 60 00 | " Plante, Jos., inf (1) | 18 00 |
| 11 | Langlois, Julien | 60 00 | " Noël, François, inf(1) | 18 00 |
| ** | Laroche, J. Bte | 60 00 | " Chouinard, Chs., inf(1) | 18 00 |
| 11 | Lavoie, A. (L. M.) | 60 00 | Gobeil, Jean, inf(1) | 18 00 |
| ** | Noël, Henri. | 60 00 | Asselin, Louis, inf(1) | 18 00 |
| " | Ross, Pierre | 60 00 | | 259 60 |
| | <u> </u> | 539 10 | RECAPITULATION OF PENSIONS. | |
| | Nine Widows at \$58. | | | 1 000 00 |
| W:4 | Tallet I Rto | 50 00 | 10 Pilots at \$120 | 1,200 00 205 27 |
| | Talbot, J. Bte | 58 00 | 3 " 110 | 30 50 |
| ** | Langlois, Philias, pensioned April 30, 1899 | 29 00 | 2 " 100 | 196 00 |
| | Caron, Germain, died May 28, | 29 00 | | 96 00 |
| " | 1899 | 34 30 | 1 " 96 3 " 88 | 264 00 |
| | Côté, François | 58 00 | | 57 00 |
| " | Dion, Jean | 58 00 | 1 " 07 | 0, 00 |
| 11 | Koenig, C. F | 58 00 | 22 Pilots. | |
| | Lachance, Ovide | 58 00 | 42 I 11005. | |
| •• | Levesque, Joseph | 58 00 | 22 Widows at \$70 | 1,329 65 |
| ** | | • 00 | 18 " 66 | 1,168 75 |
| 11 | Pineau. Benjamin | 58 00 | | |
| | Pineau, Benjamin | 58 00 | | |
| 11 | Pineau, Benjamin | 58 00 469 30 | - 9 65 65 63 | 568 75 |
| 11 | Pineau, Benjamin | | - 9 " 65 | |
| 11 | Pineau, Benjamin | | 9 " 65 | 568 75 336 70 |
| 11 | Pineau, Benjamin | | - 9 " 65 | 568 75 336 70 539 10 |
| 11 | Pineau, Benjamin | | 9 " 65 | 568 75 336 70 539 10 469 30 |
| 11 | Pineau, Benjamin | 469 30 | - 9 | 568 75 336 70 539 10 469 30 252 00 |
| Widow | Five Widows at \$48. Côté, Célestin Desrosiers, P | 469 30 | - 9 | 568 75 336 70 539 10 469 30 252 00 244 80 |
| Widow | Five Widows at \$48. Côté, Célestin Desrosiers, P | 48 00 48 00 48 00 48 00 12 00 | - 9 | 568 75 336 70 539 10 469 30 252 00 244 80 |
| Widow | Five Widows at \$48. Côté, Célestin. Desrosiers, P Dion, Joseph Lachance, F. X. (M.L.) arrears | 48 00 48 00 48 00 48 00 | 9 " 65 6 " 63 | 568 75 336 70 539 10 469 30 252 00 244 80 |
| Widow | Pineau, Benjamin Five Widows at \$48. Côté, Célestin Desrosiers, P Dion, Joseph Lachance, F. X. (M. L.) arrears | 48 00 48 00 48 00 48 00 12 00 | 9 " 65 6 " 63 | 568 75 336 70 539 10 469 30 252 00 244 80 |

63 VICTORIA, A. 1900

STATEMENT of Moneys received and disbursed by the Corporation of Pilots for the Decayed Pilot Fund of Quebec, &c.—Concluded.

| Dr. | | | Cr. | | |
|--------------------------------------------------------------------|--------|--------------|---------------------------------------------------------|----------------|------|
| RECEIPTS. | \$ | cts. | | . \$ | cts. |
| To balance of 1898 | 23,890 | 69 | By pensions, relief paid during the year 1899:— | | |
| interest to July 1, 1899, on \$22,800, at 6 per cent | 1,368 | 2 00 | By relief | 499 30 | 98 |
| The City of Quebec, 1 year's interest to | 1,000 | , 00 | By quarter ending Jan. 31, 1899 | 1,895 | |
| July 1, 1899, on \$9,000, at 7 per | (°O) | | April 30, 1899 | 1,834 | |
| reasury Department, 1 year's interest | 031 | 00 | July 31, 1899 Oct. 31, 1899 | 1,851 1,817 | |
| to July 1, 1899, on \$20,000, at 5 per | | | Salary of secretary and assistant | 550 | |
| cent | 1,000 |) 00 | Deposits at savings banks—National Bank and Quebec Bank | 31,520 | 00 |
| interest on \$2,500, at 5 per cent | 12 | 5 00 | By balance on hand | 107 | |
| Guillaume Bouchard, 1 year's interest on \$2,400, at 5 per cent | 120 | 00 | - | 40,115 | 27 |
| The Municipality of St. Joseph de Lévis, | | | - | | |
| 1 year's interest on \$3,210, at 5 per cent | 160 | 0 50 | | | |
| The Savings Bank, 1 year's interest on | 0.44 | 2 40 | STATEMENT OF FUND. | | |
| current account | 8.96 | 2 48 8 60 | Moneys loaned | 56,700 | 00 |
| The Municipality of St. Joseph de Lévis, | ., | | Money in savings bank | 31,520 | 00 |
| capital remitted | 3,21 | 00 | Money in secretary-treasurer's hands | 107 | 07 |
| | | | | 88,327 | 07 |
| | | | To deduct arrears of pensions due this day | | 10 |
| - | 40,11 | 5 27 | - | 88,176 | 97 |

F. X. DION, Secretary-Treasurer.

We, the undersigned, officially appointed to examine the books and accounts of the Decayed Pilot Fund of Quebec, certify to having made a minute examination and to having found everything correct.

J. J. B. TURCOTTE,

Accountant.

TREFFLÉ SIMARD,
THÉOPHILE CORRIVEAU,
Auditors.

Quebec, December 30, 1899.

F. X. Dion—in current account with the Corporation of Pilots of Quebec to December 31, 1899.

| Dr. | \$ cts. | Cr. | 8 | cts |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|---------------------------|----------------------------------------------------------------------------------------------------------|
| Reserve fund of 1898. Reserve fund of 1898. Pilots' retirement fund Customs, Montreal. "Three Rivers. "Chicoutimi. "Tadousac (St. Etienne). "Sorel. "St.Thomas de Montmagny. "Trois Pistoles. Interest: Banque Nationale. Fines. Lost time. Pilotage collected at Quebec. | 1,310 24 500 00 750 00 79,141 34 2,322 71 301 59 525 75 710 740 74 1,336 98 405 77 103 48 160 00 2,506 28 43,900 36 | By Expenses pilots' boats. \$ 735 58 Less. 11 90 Pilots' expenses. \$ 594 61 Less. 1 00 Expenses pilot boat La Mouette. | 723 593 409 120 229 2,439 | 61 33 01 65 77 50 58 05 34 00 00 00 00 00 00 00 00 00 |
| - | 134,379 47 | - | 134,379 | 47 |

F. X. DION,

Secretary-Treasurer.

We, the undersigned, officially appointed to examine the books and accounts of the Corporation of Pilots, certify to having found them correct.

J. J. B. TURCOTTE,

Accountant.

J. THÉOPHILE CORRIVEAU, TREFFLÉ SIMARD,

Auditors.

QUEBEC, December 30, 1899.

APPENDIX No. 11.

REPORT OF THE PILOTAGE AUTHORITY, VICTORIA, B.C., FOR YEAR ENDED DECEMBER 31, 1899.

F. GOURDEAU, Esq.,
Deputy Minister of Marine and Fisheries,
Ottawa.

SIR,—I have the honour, by direction of the commissioners, to transmit herewith the pilotage returns for the Pilotage District of Victoria and Esquimalt, in the Province of British Columbia, for the year ending December 31, 1899, as required by section 22 of chapter 80 of the Revised Statutes of Canada, 1886, in the hope that the same will reach your department in ample season for embodiment in the supplement to your annual report, of which kindly furnish me with a copy when issued, and accept my thanks in anticipation. Our chairman, Mr. Rithet, is generally in San Francisco at New Year's, or he would sign returns.

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

> EDGAR CROW BAKER, Secretary-Treasurer P. A.

PILOTAGE Returns, Victoria and Esquimalt Pilotage District, B.C., January 1 to December 31, 1899.

LICENSED PILOTS.

| No. | Name. | Age. | Date of Issue. | Seniority. | Remarks. |
|---------------|-----------------------------------------------------------------------|----------------------|----------------|----------------|-----------------------------------------------------------------------------------------------------|
| $\frac{2}{3}$ | John Thompson Samuel W. Bucknam John Newby Thomas Bebbington | 50 49 50 53 | April 10, 1891 | April 10, 1891 | Originally a B. C. Pilot. Victoria and Esquimalt District. Originally a N. W. and Yale pilot. |

N.B.—The foregoing is a list of licensed pilots, who are the only ones who have prosecuted such calling in the above named district.

There are no masters and mates acting under license from this Pilotage Authority,

all the certificates previously granted having expired by effluxion of time.

Clauses I., II., 1II., page 213, supplement to 19th annual report, with reductions on pages 200 and 201, supplement to 21st annual report, and also those on pages 181 and 182, supplement to 26th annual report (i.e. Order in Council, July 1, 1893), apply to this year also.

Same Acts and parts of Acts as last year apply to 1899, and list of exempted vessels and Puget Sound rates remain the same.

EDGAR CROW BAKER,

Secretary-Treasurer.

VICTORIA, B.C., December 31, 1899.

PILOTAGE DUES collected, January 1 to December 31, 1899.

| Month. | British. | Foreign. | Total. | Remarks. |
|-----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| January February March April May June July August October November December | \$ cts. 313 25 317 00 397 00 423 00 291 87 418 00 378 50 388 00 340 75 512 75 323 50 280 75 4,384 37 | \$ cts. 766 25 720 25 715 50 763 75 851 50 841 50 818 00 904 25 798 25 661 50 672 50 827 25 9,340 50 | \$ cts. 1,079 50 1,037 25 1,112 50 1,186 75 1,186 75 1,129 50 1,196 50 1,292 25 1,139 00 1,174 25 996 00 1,108 00 | N.B.— The total \$13,724.87 does not include sums of \$500 collected from Puget Sound steamers and \$47.37 pilotage outwards in certain cases to credit of Pilotage Authority. |

EDGAR CROW BAKER,

VICTORIA, B.C., December 31, 1899.

 $Secretary \hbox{-} Treasurer.$

| CR. | Amount. | \$ cts. 1,514 39 12,352 39 600 00 333 75 986 10 15,786 63 |
|-----------------------------------------------------------|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| cember 31, 1899. | Head of Service. | \$ cts. 1899. 1,514 39 April 5. By V. and E. pilots, division surplus, 1898. 13,724 87 Jan. 1 to Dec. 31 Secretary-treasurer, 12 months' salary. Office expenses, rent, fuel, light, &c. A7 37 December 31. Balance to credit of Pilotage Authority. |
| uary 1 to De | Date. | tots. 1899. 14 39 April 5. 24 87 Jan. 1 to Dec. 31 April 5. 47 37 December 31 |
| TURE, Jan | Amount. | |
| RECEIPTS and EXPENDITURE, January 1 to December 31, 1899. | Nature of Receipt. | January 1 To Balance from last year Jan. 1 to Dec. 31 Pilotage dues, 12 months. Certificate free, Puget Sound Steamers. Pilotage outwards in certain cases to credit of Pilotage Authority. |
| DR. | Date. | 1899. January 1 Jan. 1 to Dec. 31 |

EDGAR CROW BAKER,
Secretary Treasurer.

Approved and certified correct.

MATTHEW T. JOHNSTON, Commissioners.

HERBERT G. SIMS.

APPENDIX No. 12.

REPORT OF THE PILOTAGE AUTHORITY OF NANAIMO, B. C., FOR THE YEAR 1899.

NANAIMO, B.C., January 10, 1900.

The Honourable

The Minister of Marine and Fisheries, Ottawa, Canada.

SIR,—I have the honour to forward for the information of the Dominion Government, the pilotage returns of this Pilotage Authority, for the year ending December 31, 1899, in accordance with the Pilotage Act.

I am, sir.

Your obedient servant,

GEORGE NORRIS,

Acting Secretary, Nanaimo Pilotage Authority.

Pilotage Returns of the Nanaimo Pilotage Authority for the year ending December 31, 1899, in accordance with the "Pilotage Act, 1886."

| Names of Pilots. | $\mathbf{Age}.$ | Service. | |
|-------------------------------------------|-------------------------|-----------------------|-----|
| Morrison, Daniel | | District. | |
| Bendrot, Jas. Peter | | " | |
| Christensen, Jas | 58 | " | |
| Butler, Jas Edgar | 38 | " | |
| Owens, William David | | " | |
| Sabiston, John F., sr | 73 R | etired Sept. 30, 1896 | • . |
| Rates of pilotage dues, etc. | | | |
| Half pilotage | | \$1 per foot. | |
| Full " | • • • • • • • • • | 2 " " | |
| Gulf " | | 10 per diem. | |
| Special rates for mail steamers and tugs. | | | |
| Total amount received for pilotage dues. | | | |
| Pilotage dues from British ships | | . \$ 9,139 00 | |
| " " Foreign " | | . 13,362 50 | |
| | | \$22,501 50 | |
| Receipts. | - | | |
| Balance from 1898 | | . Nil | |
| Receipts for year 1899 | | | |
| Pilotage dues | | | |
| | | | |
| License fees | · · • • • • · · · · · · | . 00 00 | |
| | | \$22,551 50 | |
| | | W,001 | |

Expenditure.

| Paid pilots | \$17,601 | 57 |
|----------------------------------------------------|----------|----|
| Pilots' expenses | 3,415 | |
| Ex-pilot's allowance | 600 | 00 |
| Secretary-treasurer | 600 | 00 |
| Rent of office | 120 | 00 |
| Cleaning office | 30 | 00 |
| Printing, postage and stationery. | 92 | 10 |
| Refund of steamer Miowera's pilotage paid into the |) | |
| fund twice by Commissioner Quennell | | 00 |
| | \$22,551 | 50 |

E. QUENNEL, Chairman, GEORGE NORRIS, Acting Secretary.

NANAIMO, B.C., January 10, 1900.

APPENDIX No. 13.

REPORT OF THE PILOTAGE AUTHORITY OF YALE AND NEW WEST-MINSTER FOR YEAR 1899.

VANCOUVER, B. C., January 6, 1900.

To The Honourable

The Minister of Marine, Ottawa.

SIR,—I have the honour to forward to you herewith statement of accounts and of the affairs of the Yale and New Westminster Pilotage Authority for the year just ended, 1899.

At a meeting of the commissioners held in my office yesterday the 5th inst., my accounts were audited and signed by the chairman, and I was instructed to forward to you. This I do, enclosing, 'Receipts and Expenditure,' 'Ledger Balance' and 'Statement.'

I am also sending true copies to your agent for this province, Capt. James Gaudin, Victoria.

I have, sir, the honour to be

Your obedient servant,

C. GARDINER JOHNSON,

Secretary to the New Westminster Pilotage Authority.

RECEIPTS.

| Balance in bank, January 5, 1899\$ | 810 | 10 | | |
|------------------------------------|--------|----|--------|----|
| Pilotage earnings for year 1899 | 17,112 | 90 | | |
| | | | 17,923 | 00 |
| DISBURSEMENTS. | | - | • | |
| Paid pilots January 5, 1899\$ | 810 | 10 | | |
| Paid pilots during year 1899 | | 78 | | |
| Office expense account, 1899 | 909 | | | |
| Pilotage expense account, 1899 | 3,125 | 85 | | |
| Balance in bank | 801 | 77 | | |
| <u>.</u> | | \$ | 17,923 | 00 |

C. GARDINER JOHNSON,

Secretary Yale and New Westminster Pilotage Authority.

Approved,

RICHARD ALEXANDER,

Chairman.

VANCOUVER, B.C., January 5, 1900.

LEDGER BALANCE.

| Asset | 8. | | | |
|----------------------------------------------------|-----------|----|-----|----|
| Bank of Montreal | • • • • • | \$ | 801 | 77 |
| Savings department\$ Less special cheque to order | 614 | 63 | | |
| of commissioners | 100 | 00 | | |
| \$ | 514 | 63 | | |
| Interest, 1899 | 15 | 80 | 530 | 42 |

11b---81

Liabilities.

| Reserve fund\$ | 514 63 | | |
|---------------------------------|--------|--------|----------|
| Interest, 1899 | 15 80 | | |
| | \$ | 530 43 | |
| Pilotage earnings not disbursed | | 801 77 | |
| | | | 1 332 20 |

C. GARDINER JOHNSON,

Secretary, Yale and New Westminster Pilotage Authority.

Approved,

RICHARD ALEXANDER,

Chairman.

VANCOUVER, B.C., January 5, 1900.

| No. of License. | Name of Pilot. | Age. | Service in. | Remarks. |
|-----------------|----------------------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------------------------------------------------|----------|
| 2 " | William Ettershank. George W. Robertson H. Robson Jones William Johnson | 57 49 43 43 | License to pilot vessels of any size or des- cription within the limits of Yale and New Westminster pilotage authority. | Active. |

Note.—Pilotage dues now in force are same as approved by Order in Council Saturday, the 28th day of April, 1894.

INWARDS.

| 17 British steamers \$ 243 Foreign steamers 19 British sailers 11 Foreign sailers | 2,896 4,536 615 303 | 00 50 00 | 8,351 | 40 |
|-------------------------------------------------------------------------------------------------------------------|------------------------------|----------------|--------|----|
| Outwards. | | | | |
| 64 British steamers\$ | 2,967 | 00 | • | |
| 258 Foreign steamers | 4,662 | 75 | | |
| 19 British sailers | 683 | 75 | | |
| 11 Foreign sailers | 448 | 00 | | |
| | | | 8,761 | 50 |
| | | \$ | 17,112 | 90 |

Remaining in port December 31, 1899.—Senator (in Westminster), \$43.75; Latona, \$20; Saga, \$21.25; Guy C. Guy, \$28; Altear, \$26; Aorangi, \$53.25; Empress of India, \$66.25.

C. GARDINER JOHNSON,

Secretary, Yale and New Westminster Pilotage Authority.

Approved,

RICHARD ALEXANDER,

Chairman.

VANCOUVER, B.C., January, 1900.

APPENDIX No. 14.

REPORT OF PILOTAGE AUTHORITY OF HALIFAX FOR YEAR 1899.

HALIFAX, N.S., January 9, 1900.

Hon. Minister Marine and Fisheries, Ottawa.

Sir,—I beg leave to transmit for the information of the department the enclosed returns of the Pilotage Authority of the district of Halifax, N.S., viz.:—

Statement of receipts and expenditures.

Statement of superanuation fund.

Return outward of vessels, British and Foreign.

Return inward of vessels, British and Foreign.

List of licensed pilots.

List of pensioners.

Balance sheet with amount paid each pilot.

Respectfully,

Your obedient servant,

J. TAYLOR WOOD,

Secretary-Treasurer.

STATEMENT of Receipts and Expenditures for the year ended December 31, 1899.

| Dr. | \$ | cts. | Cr. | \$ 0 | c ts . |
|--------|----------|-----------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------|----------------|
| Salary | 1,3 8 | 25 0 0 02 54 00 0 0 | Balance on hand, Dec. 31, 1898 Outward pilotage Con:missions Interest Licenses, bonds, &c | 1,576 1,634 1,485 476 85 | 45 09 85 |
| | 5,2 | 57 57 | | 5,257 | 57 |

J. TAYLOR WOOD, Secretary-Treasurer.

Office of Commissioners of Pilots, December 30, 1899.

BALANCE Sheet.

| Dr. | * | cts. | Cr. | 8 | cts. |
|---------------------------------------------------------------------------------------|-----------------------|----------------------|--------------------------------------|-----------------|------|
| Cash Union Bank, special depositsuperannuation Savings Bank Dominion Stock Union Bank | 3,088 481 7,084 | 59 81 31 00 | Superannuation Fund Outward pilotage | 15,854 4,198 | |
| Total | 20,053 | 24 | Total | 20,053 | 24 |

E.O.E.

J. TAYLOR WOOD,

Secretary-Treasurer.

Office of Commissioners of Pilots, Halifax, N.S., December 31, 1899.

LIST of persons on the Pension Roll.

| Name. | Age. | Residence. | Amount Pension per Annun | ns |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| John Fleming. John Johnson. Patrick Hayes Bernard Gallagher Joseph Reno Mrs. Lucinda Nickerson Mrs. Charles Martin Mrs. Charles Martin Mrs. Charles Glazebrook Mary Glazebrook. Chas Glazebrook. Chas Glazebrook. Thomas Martin Leo Martin Leo Martin Elizabeth Martin Barbara Martin Catherine Martin Catherine Martin | 86 76 77 74 73 65 63 67 54 10 8 41 13 9 7 6 | Ketch Harbour. Bear Cove, Halifax Co. Herring Cove, Halifax Co. Halifax. Herring Cove, Halifax Co. Sambro, Halifax Co. Halifax. Total. | 100 109 100 100 100 100 30 30 30 15 15 15 15 | 60 60 60 60 60 60 60 60 60 60 60 60 60 6 |

J. TAYLOR WOOD,

Secretary-Treasurer.

OFFICE OF COMMISSIONERS OF PILOTS, December 31, 1899,

LIST of Pilots, Port of Halifax.

| o. | Name. | Residence. | Age |
|--------|-------------------|-----------------|-----|
| l | | <u></u> | |
| 2 | William Fleming | Halifax | 33 |
| 3 | James Holland | | 63 |
| Ŀ | William Baker | Halifax | 64 |
| 5 | | | 1 |
| i | Frank Thomas | Herring Cove | 24 |
| 7 | | 1 | ì |
| 3 | William Hayes | Herring Cove | 25 |
| • | Hugh Monroe | Halifax | 64 |
|) | Jeremiah Holland | | 67 |
| Ĺ | Edward Byers | | 58 |
| 2 | James Hanrahan | Ferguson's Cove | 62 |
| 3 | William Beazley | Halifax. | 59 |
| ŧ | John Hayes | Halifax | 49 |
| 5 | James Spears | " | 41 |
| 3 | John F. Beazley | n | 39 |
| 7 | William Gorman | Herring Cove | 25 |
| 3 | Charles F. Martin | Halifax | 34 |
| 9 | William White | Ferguson's Cove | 49 |
|) | Thomas Hayes | Halitax | 40 |
| L | Thomas Reno | Herring Cove | 39 |
| 2 | Frank Mackey | Halifax. | 27 |
| 3 | Henry Latter | | 35 |
| 4 | [| | " |
| 5 | l | | 1 |
| 3 | James Fleming. | Halifax. | 60 |

J. TAYLOR WOOD, Secretary-Treasurer.

Office of Commissioners of Pilots, December 31, 1899.

RETURN of vessels entered Outwards at the Port of Halifax, N.S., from January 1, 1899, to December 31, 1899, (subject to compulsory Pilotage.)

BRITISH.

| Schooners. | Brigantines. | Barqueu- tines. | Barques. | Ships, | Steamers. | Barges. | Tonnage. | Pilot Fees. |
|------------|--------------|--------------------|----------|--------|-----------|---------|----------|---------------------|
| . 8 | 4 | 11 | 2 | 2 | 565 | 18 | 822,251 | \$ cts. 7,134 06 |

FOREIGN.

| 4 | 1 | 4 | 29 | 1 | 113 | 6 | 227,502 | 1,789 99 |
|---------|---|----|----|---|-----|----|-----------|---------------------------|
| Total12 | 5 | 15 | 31 | 3 | 678 | 24 | 1,051,753 | \$ 8,924 05 |

RETURN of vessels entered Inward at the Port of Halifax, from January 1, 1899, to December 31, 1899, (subject to compulsory pilotage.)

BRITISH.

| Schooners. | Brigantines. | Barquen- tines. | Barques. | Ships. | Steamers. | Barges. | Tonnage. | Pilot Fees. |
|------------|--------------|--------------------|----------|--------|-----------|---------|----------|----------------------|
| 74 | 15 | 10 | 2 | 2 | 654 | 48 | 851,015 | \$ cts. 13,841 50 |

FOREIGN.

| • | 25 | 1 | 4 | 1 | | 116 | 4 | 230,486 | 3,182 20 |
|-------|----|----|----|----|---|-----|----|-----------|-------------|
| Total | 99 | 16 | 14 | 31 | 2 | 770 | 52 | 1,081,501 | \$17,023 70 |

J. TAYLOR WOOD,

Secretary-Treasurer.

Office of Commissioners of Pilots, December 31, 1899.

SUPERANNUATION FUND.

| Cr. | \$ | cts. | \$ | cts. |
|--------------------------------------------------------------------|--------------------------------|----------------------|-----------------|------|
| Balance, December 31, 1898 Commissions Interest Licenses and bonds | 740 476 | 0 69 6 85 5 00 | 15,090 1,302 | |
| Less paid pensions | | | 16,393 538 | |
| | | j | 15,854 | 71 |
| Dr. | | | | |
| Union Bank (special) Savings bank. Dominion stock | 481 3,088 7,084 5,200 | 4 31 | 15,854 | 71 |
| · | i | | | |
| 1900. Jan. 9. Transferred from general fund | | } | 2,515 | 53 |

E.O.E.

J. TAYLOR WOOD,

Secretary-Treasurer.

APPENDIX No. 15.

REPORT OF PILOTAGE AUTHORITY FOR DISTRICT OF MIRAMICHI, N.B., FOR 1899.

NEWCASTLE, MIRAMICHI, January 10, 1900.

Major F. Gourdeau,

Deputy Minister of Marine and Fisheries, Ottawa.

SIR,—I have the honour to inclose herein the pilotage returns of the district of Miramichi, N.B., for the year ended December 31, 1899.

I am, sir,

Your obedient servant,

R. R. CALL,

Secretary-Treasurer to Pilotage Commissioners.

PILOTAGE Returns for the Pilotage District of Miramichi, N.B., year ending December 31, 1899.

| Class of Vessel. | | |
|--------------------------------------|-----------|-----|
| essels reported Inwards— | 50 | |
| British steamers. " sailing vessels | 52 35 | |
| Foreign steamers sailing vessels. | 62 | |
| Tessels reported Outwards— | | 151 |
| British steamers. | 50 | |
| sailing vessels | 29 | |
| Foreign steamers sailing vessels | 2 65 | |
| Tessels Removed— | | 146 |
| British steamers | 24 | |
| sailing vessels | 4 | |
| Foreign steamers | 22 | |
| - | | 51 |
| Tessels—Extra Services— | | |
| British steamers. sailing vessels. | | |
| Foreign steamers | | |
| sailing vessels | | 1 |

NATIONALITIES of Vessels piloted Inwards for 1899.

| British | 87 | Russian 2 |
|-----------|----|-----------|
| Norwegian | 47 | Swedish 2 |
| Italian | 8 | |
| Austrian | | 151 |
| German | 2 | |

R. R. CALL, Secretary-Treasurer to Pilotage Commissioners.

PILOTAGE Returns for the Pilotage District of Miramichi, N.B., year ending December 31, 1899.

| Class of Vessel. | Amoui | nt. | Amour | nt. |
|------------------------------------------------------------------------------------------------------|------------------------------|----------|----------------|------|
| Total amount of Pilotage Inwards— British steamers sailing vessels. Foreign steamers. | \$ 2,929 905 109 | 08 | . 8 | cts |
| " sailing vessels | 1,710 | | 5, 65 3 | 90 |
| British steamers sailing vessels Foreign steamers 3 sailing vessels | 3,223 748 101 2,230 | 02 78 | e 909 | . 04 |
| Total amount of Removals— British steamers sailing vessels Foreign steamers sailing vessels | | 00 | 6,303 | |
| Total amount of Extra Services— British steamers sailing vessels Foreign steamers. sailing vessels | | | 370 27 | 00 |
| Total | | | 12,354 | |

R. R. CALL, Secretary-Treasurer to Pilotage Commissioners.

RATES of Pilotage chargeable at Miramichi, N.B., on all vessels, British and Foreign, for the year 1899.

| When Inward Bound In addition to the above, for all vessels propelled wholly or in part by steam Sailing vessels towing from entrance of harbour Inwards. When Outward Bound. In addition to the above, for all vessels propelled wholly or in part by steam Sailing vessels towing from louding berth to sea Removals are not compulsory, but when pilots are employed the rate for removal and mooring of vessels over 300 tons is. Where the distance of removal exceeds four miles, fifty per cent additional on the above rate. Steam tugs towing barges with cargo Inwards, may depart without being compelled to | \$2.25 per ft. 2 c. per ton. § of \$2.25 \$2 per ft. 2 c. per ton. § of \$2 \$4 \$4 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| take a pilot on tug or barges Outward, or paying any outward pilotage, after having paid full pilotage on tug and barges Inward. | |

R. R. CALL,

Secretary-Treasurer to Pilotage Commissioners.

JOHN C. MILLER, Chairman.

PILOTAGE Returns for the Pilotage District of Miramichi, N.B., year ending December 31, 1899.

| No. | Names. | | For what service. | | Remarks. | | |
|-----|-----------------------|-----|-------------------|---------------------------------------|----------------------------------------|---------------|--|
| 2 | Louis Jimmo | 45 | Full licens | e | Resigned, | May 23, 1899. | |
| 6 | Francis Martin | 65 | " | • • • • • • • • • | 11 | 11 | |
| 7 | Maxime Martin | 54 | •" | | 11 | 11 | |
| .9 | Angus McLean. | 66 | 11 | | " | 11 | |
| 10 | Alexander Wilson | 53 | " | | 11 | 11 | |
| 12 | George Savoy | 55 | " | | ,, | 11 | |
| 22 | Wm. Walls, sr | 45 | | | ., | 11 | |
| 26 | John McCallum | 47 | " | | ., | 11 | |
| 27 | James Nowlan | 48 | ' " | • • • • • • • • • • • • • • • • • • • | ., | 11 | |
| 28 | Dudley P. Walls | 53 | " | · • • · · · · | | 11 | |
| 29 | George Sutton | 48 | ' " | | ., | 11 | |
| 30 | James A. Nowlan | 44 | ., | | ., | 11 | |
| 31 | George T. Tait | 42 | ,, | | 11 | 11 | |
| 32 | Joseph Jimmo | 44 | ., | | ** | 11 | |
| 33 | James McCallum | 55 | " | | ١,,, | | |
| 35 | John Martin | 4() | ., | | ١,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 11 | |
| 36 | Asa Walls | 40 | ,, | | ,, | 11 | |
| 37 | Wm. Walls, jr | 42 | ۱,, | | ١,, | 11 | |
| 38 | John Nowlan | 43 | " | | ., | 11 | |
| 39 | Patrick Nowlan | 40 | ٠, | | l " | | |
| 40 | Hugh McLean | 32 | Inwards o | nlv | | | |
| 41 | Michael J. Jimmo | 32 | Full licence | e | 1 | | |
| 42 | George M. Nolan | 43 | 11 | | ł | | |
| 43 | Christopher C. McLean | 52 | | | | | |
| 44 | George Savoy | 55 | 1 | | 1 | | |

R. R. CALL, Secretary-Treasurer to Pilotage Commissioners.

JOHN C. MILLER, Chairman.

The Miramichi Pilots in account with R. R. Call, Secretary-Treasurer.

| 1899. | Dr. | | cts |
|------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------------|
| May 1. " 27. " 27. Aug. 8. " 8. " 8. " 11. Dec. 30. " 30. " 30. " 30. | Paid Ålexander Martin Amount refunded schr. "Bessie". Amount refunded barque "Ajax" Paid for telegrams. Paid on account of legal expenses Paid Anslow Bros.' account for printing. R. R. Call, secretary-treasurer, postage and stationery R. R. Call, secretary-treasurer, 3 per cent commission on \$12,354.84 Paid pilots on account. | 1 20 18 13 26 220 7 | 00 50 65 80 |
| 1899. | Cr. | 12,354 | 84 |
| Dec. 30 30 30 30. | Amount for removals | 12,354 | 84 |

R. R. CALL, Secretary-Treasurer to Pilotage Commissioners.

JOHN C. MILLER, Chairman.

APPENDIX No. 16.

REPORT OF PILOTAGE AUTHORITY FOR DISTRICT OF SHEDIAC FOR 1899.

PILOTAGE OFFICE, Shediac, N.B., January 6, 1900.

F. Gourdeau, Esq.,
Deputy Minister of Marine,
Ottawa.

SIR,—The pilotage authority for the port of Shediac, N.B., beg leave to submit the following report for the year ended December 31, 1899.

| • • | | |
|---------------------------------------------------------|--------|-----------------|
| Names of Pilots in District. | Age. | Service. |
| 1. Edward McDonald | 67 | Full district. |
| 2. Doicity P. LeBlanc | 61 | 11 |
| 3. Thomas McGrath | 53 | 11 |
| 4. Olaf Hendricksen | 47 | 11 |
| 5. Paul P. Leblanc | 53 | tt |
| Number of vessels reported liable to pay pilotage: | | |
| | Inward | s. Outwards. |
| Foreign sailing vessels | 21 | 21 |
| Nationality of above vessels reported inwards during 1 | 899 : | |
| Norwegian | | 20 |
| Danish | | |
| Total | | 21 |
| The total amount received for pilotage services for the | year v | vas as follows: |

This amount was all paid to the above pilots.

The rates of pilotage for this district are as follows:

For pilotage inwards and outwards, \$1.25 per foot draught of water. Each remove \$2.

From foreign vessels......\$843.40

W. A. RUSSELL,

Secretary to Pilotage Commission of Shediac.

APPENDIX No. 17.

REPORT OF PILOTAGE AUTHORITY FOR DISTRICT OF THE COUNTY OF CHARLOTTE, N.B., FOR 1899.

F. Gourdeau, Esq.,

Deputy Minister of Marine and Fisheries, Ottawa, Canada.

SIR,—I have the honour to inclose herewith pilotage returns for the district of the County of Charlotte for the year 1899.

I am, sir, your most obedient servant,

C. E. O. HATHEWAY,

Commissioner and Secretary.

Pilotage returns for the district of the County of Charlotte, N.B., for the year 1899.

Licensed Pilots Acting. Age. Residence.

Wellington Cline 58 Parish of West Isles, County of Charlotte.

Joseph Boyd. 64 Campobello,

Pilot Boat License.

Schooner "Olga," register 10 tons, Joseph Boyd, master, licensed August 2, 1899.

Amount of Pilotage collected by Pilots.

British vessels, \$143.50; foreign vessels, \$166.50; total, \$310.

907 1270

Total tonnage, 2177.

Receipts by Pilotage Authority.

Charges.

C. E. O. HATHEWAY,

Commissioner and Secretary.

St. Andrews, N.B., December 31, 1899.

11

Rates of Pilotage in the District.

Longest pilotage distance, inwards or outwards, \$2.25 per foot draught of water.

Second " 1.60

Third " 1.50

From or to Campobello, 20 cents per foot less than above rates.

Fourth pilotage distance inwards or outwards \$1 per foot draught of water. From November 1 to April 1, 20 cents per foot in addition to above rates.

To or from St. Andrews harbour to ballast ground, vessels 80 tons and under 300

tons, \$2.50 each; 300 tons and upwards, \$3 each.

Removing a vessel from one loading place or harbour to any other loading place or harbour inside St. Andrews Bay, vessels 80 tons up to 200 tons, \$4; over 200 tons and up to 300 tons, \$5; over 300 tons and up to 400 tons, \$6; exceeding 400 tons, \$8 each.

Removing a vessel from any loading place inside St. Andrews Bay to any harbour or loading place outside St. Andrews Bay and within the district, pilotage inwards or ontwards, vessels 80 tons and under 200 tons, \$6; 200 tons and under 300 tons, \$8; 300 tons and under 400 tons, \$10; 400 tons and upwards, \$12 each.

C. E. O. HATHEWAY, Commissioner and Secretary.

APPENDIX No. 18.

REPORT OF THE PILOTAGE AUTHORITY OF HARVEY, N.B., FOR THE YEAR ENDED DECEMBER 31, 1899.

| Description of Vessel. | Name and Nationality. | Tonnage. | Amount Pilotag | |
|---------------------------------------|--------------------------|----------|-------------------|-----|
| | | | \$ | cts |
| 3.S | Touborg, Nor | 1,063 | 16 | 50 |
| H | Touborg, 2nd voyage, Nor | . 1.063 | 17 | 00 |
| Bark | Ophelia, Nor | . 1,127 | 18 | 25 |
| | Nova Scotia, Nor | 1,110 | 15 | 00 |
| | Dictator, Nor | . 526 | | 25 |
| 3.S | Manuka, Br | 1,125 | | 50 |
| | Indianapolis, Br | . 1,593 | | 00 |
| · · · · · · · · · · · · · · · · · · · | Rockcliff, Br | . 1,496 | | 00 |
| Ship | Savona, Br | . 1,583 | | 00 |
| 5.3 | Salopia, Br | 1,549 | 20 | 00 |
| | | 12,235 | 178 | 50 |

 Fees received
 \$5 00

 Expenses
 7 50

GEO. A. COONAN, Secretary, Pilotage Commissioners.

HARVEY, December 31, 1899.

20 62

APPENDIX No. 19.

ST. MARY'S AND LISCOMB, FOR REPORT OF PILOTAGE COMMISSIONERS FOR THE PILOTAGE DISTRICT OF THE YEAR ENDING DECEMBER 31, 1899.

EDWARD QUINN, PILOT No. 1, FOR ST. MARY'S.

| | | | | 63 VIC | TORIA, A. |
|----------------------|---------------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-----------------------------------------------------------------------|
| 1GE. | Total. | s cts. | 7 88 3 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | | 1 50 6 24 2 88 10 00 |
| RATE OF PILOTAGE. | Inwards. Outwards. | s cts. | 3 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 13 90 1 | | 3 12 1 44 6 00 |
| RATI | Inwards. | S cts. | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | | 1 50 3 12 4 44 00 |
| Normon of Markon | Traine of Akason. | | Lohnes. J. T. Wolf. Hamilton Finley. Glossen Glossen Larkin. S. Tebboe Hamelman Earle Barle. | MARY'S. | McKinzie Liblace Dicks H. Leblance |
| -noT ber | Registe | | 98 117 1123 124 124 124 126 699 699 699 699 79 | OR ST. | 15 78 36 134 |
| Dort of Domiter | TOUR OF TRESIDELY. | | Halifax Lunenburg Liverpool, N.S St. John Windsor Georgetown, P.E.I. Port Hawksbury Windsor Grand Bank, N.F.L. Lunenburg Windsor Lunenburg | DANIEL BURNS, PILOT No. 4, FOR ST. MARY'S | Pictou |
| 7. A 3. C. A. | TABILIE OF A CREET. | | Mary Elenor. Acacia Minnie Maud. Winnie Maud. Viola Viola Warren W Samuel Drake Montreal. Winnie Pearce Cuba Regina B. | DANIEL BURA | S. S. Tug. Elsie Schooner Lucretia Jane. Laura Douglas G. J. Matanson |
| ::0 | rug. | | Schooner Barque Schooner Schooner | | S. S. Tug Schooner |
| 7/41 | W nere from. | | May 18 Halifax June 28 " " 28 " Aug. 7 Sydney " 11 Sept. 22 Aberdeen Oct. 22 St. Pierre Oct. 22 Halifax Dec. 15 Louisburg | *One-third less tonnage. | May 2. Pictou June 7. Louisburg Sept. 22. Bridgewater |
| Date | or Arrival. | 1899. | May 18. June 28. July 5. July 5. Aug. 7. Rug. 11. Sept. 22. Oct. 22. Nov. 27. Dec. 15. | • | May 2 June 7 Sept. 22 |

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SESSIONAL PAPER No. 11b

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| | 271 88 871 88 83 83 | | 24 00 | | 15 00 | | 15 00 | | *15 00 | | |
| | 152 153 26 26 26 26 26 26 26 26 26 26 26 26 26 | | 22 00 | | 13 00 | | 13 00 | | 15 00 13 00 | | |
| OM.D. | G. Armstrong Christian O. K. Lund Gullisen Dahl | MB. | 1,592 G. Black | омв. | 704 Samuelson | эмв. | 680 J. G. Tergisen | COMB. | J. Dahl Larkin | | |
| North A | 1,595 898 276 1,982 897 | risco | 1,592 | R LISC | 704 | TISCC | 089 | OR LIS | 897 699 | | |
| RENKI J. FIRE, FILLOI NO. I, FOR LISCOME. | Windeor Knogan, Norway Norway Christiania | DANIEL LANG, PILOT No. 2, FOR LISCOMB. | Barrow | CHARLES RILEY, PILOT No. 3, FOR LISCOMB. | Franckstand | LEWIS WILSON, PILOT No. 4, FOR LISCOMB. | Arundel | Y, PILOT No. 5, F | Christiania Windsor | | |
| HENRI J. FIRE, | Ship. Trojan Barque. Daphnae Braquentine Transport. S. Ship. Bogstead Barque. Hannah | DANIEL LANG, | S. S. Ship Indianapolis | CHARLES RILEY | Barque Desideria | LEWIS WILSON, | Normanvicke | ARTHUR McKINLEY, PILOT No. 5, FOR LISCOMB. | Hanna Montreal. | | |
| | ShipBarque Barque S. S. Ship Barque | | S. S. Ship | | Barque | | Barque | | Barque | | |
| | Montevideo Antwerp Antwerp Celand Liverpool | * One-third less. | Aug. 26. Manchester | One-third less S.S.S. | June 10. Para | | May 26. Liverpool | | Sept. 22. Liverpool. Oct. 15. St. Mary's | | |
| | May 19 C Aug. 27 C Sept. 24 | * | Aug. 26 | Õ | June 10. | | Мау 26 | | Sept. 22 Oct. 15 | | |

WILLIAM PRIDE,
Secretary to Commissioners.

APPENDIX No. 20.

REPORT OF PICTOU PILOTAGE AUTHORITY FOR YEAR ENDED DEC-EMBER 31, 1899.

F. GOURDEAU, Esq.,

Deputy Minister of Marine and Fisheries,

Ottawa.

SIR,—Enclosed you will please find Pilotage Returns, for the port of Pictou, N.S., for the season ending 1899.

I am, sir, your obedient servant,

W. H. NOONAN, Secretary.

Total amount received for Pilotage Dues for Season ending 1899.

| | \$ cts | . \$ ets. |
|----------------------------------------------------------------|--------------------|------------|
| Total amount received for pilotage dues for season ending 1899 | | . 2,128 90 |
| Of this amount— Received from steamships. sailing ships | 1,912 90 216 00 | |
| Of this amount— Received from British ships | 482 09 1,646 81 | |

Certified Master,

A. B. BELANGER, ss. "Campana."

Earnings of Pilots for 1899.

| No. | Name. | Age. | Amount. | Total. |
|-----|----------------------------------|----------|--------------------|----------|
| | | | \$ cts. | \$ cts. |
| 1 | Jas. Fraser. Wm. A. Cook. | 68 61 | 28 00 126 09 | |
| | Chas. A. Cooke Geo. W. Powell | 53 48 | 235 81 127 68 | |
| | Danl. McLeod | 58 | 64 00 | |
| | Danl. S. Smith | 48 42 | 138 92 1,196 37 | |
| 8 | McGregor Fraser | 31 | 186 03 | 2,102 90 |

RECEIPTS and Expenditures of all moneys received by or on behalf of the Pilotage
Authority in respect of Pilots or Pilotage

| Receipts. | \$ cts. | \$ ets. |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|----------|
| Received pilotage dues as per statement. from 7 pilots renewing bonds. Capt. Belanger, ss. "Campana," C license McGregor Fraser, license. balance due secretary. | 2,128 90 7 00 40 00 20 00 760 81 | 2,956 71 |
| Expenditures. | | |
| Paid pilots for pilotage | 2,102 90 200 00 653 81 | 2,956 71 |

JOHN A. FISHER, JOHN R. DAVIS, JOS. GRAHAM, JAMES YORSTON, H. McKENZIE, Commissioners Port of Pictou.

APPENDIX No. 21.

REPORT OF PILOTAGE AUTHORITY, DISTRICT OF ST. JOHN,N FOR 1899.

OFFICE OF PILOTAGE AUTHORITY,
DISTRICT OF ST. JOHN, N.B., January 5, 1900.

F. GOURDEAU, Esq.,
Deputy Minister of Marine and Fisheries,
Ottawa.

SIR,—Inclosed herewith please find our annual returns for pilotage for the district for the year ending December 31, 1899, which, I trust, you will find in order.

I remain,

Your obedient servant,

J. W. THOMAS, Secretary St. John Pilot Commissioners.

STATEMENT of Receipts and Expenditures for the Year ended December, 1899.

| INCOME ACCOUNT. | \$ cts. | S cts. |
|------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|----------|
| RECEIPTS. | Ψ 005. | Ψ Cub. |
| Licenses to 30 pilots at \$5 " 6 boats at \$10 25 cents per foot on outward pilotage from Port of St. John to date 25 " Musquash " | 150 00 60 00 1,965 85 5 25 | 2,181 10 |
| Expenditures. | | |
| J. & A. McMillan, stationery, &c. Auditing accounts for 1898. Office rent, 1 year to November 1, 1899. Salary, Secretary Treasurer, 1 year to date. | 18 20 25 00 100 00 800 00 | 943 20 |
| Amount transferred to Pilot Fund Account | | 1,237 90 |
| | | 2,181 10 |

J. W. THOMAS,

Secretary.

SESSIONAL PAPER No. 11b STATEMENT of Pilot Fund Account for Year ended December 31, 1899.

| PILOT FUND ACCOUNT. | \$ | cts. | \$ | cts. |
|-------------------------------------------------------------------------------------------------------------------------------------------|------------|------|-----------------------|----------|
| Dr. | | | | |
| To pensions paid 3 pilots 7 widows and 2 children | 463 504 | | 0.05 | |
| Funeral expenses, Mrs. Geo. Thomas | 20 20 | 00 | | 15 |
| To Balance | | | 1,007 10,179 | |
| CR. | | | 11,186 | 72 |
| By Balance, December 31, 1898. Interest on Dominion Savings Bank deposit, 12 months to July 1, 1899:— Per Pass Book No. 744. No. 10260. | 128 129 | 34 | 9,690 | |
| Amount transferred from Income Account | | | 258 1 ,23 7 | 30 90 |
| | [| Ì | 11,186 | 72 |
| By Balance to credit of Pilot Fund, December 31, 1899 | | | 10,179 | 57 |

J. W. THOMAS, Secretary.

STATEMENT of Finances of the St. John Pilot Commissioners, as per audit, December 31, 1899.

| Investment Account. | \$ cts. | 8 | cts. |
|------------------------------------------------------------|----------------------|--------|------|
| On deposit in Dominion Savings Bank, per Pass Book No. 744 | 4,406 96 4,462 68 | 8,869 | 64 |
| CURRENT ACCOUNT. | | | |
| In Bank of New Brunswick | | 1,309 | 93 |
| | | 10,179 | 57 |

J. W. THOMAS, Secretary.

63 VICTORIA, A. 1900

Pilots individual earnings for the year 1899.

| | \$ | cts. | \$ | cte |
|----------------------------------|--------|------|--------|-----|
| otal amount of pilotage received | 29,484 | 83 | | |
| Pilotage Fund, &c | 1,965 | 85 | 05 510 | |
| Contra. | | | 27,518 | yr |
| Sennett, James. | 1.378 | 47 | | |
| | | | | |
| line, Richard | 1,785 | | | |
| lline, Alfred | | 75 | | |
| line, Richard B | | 13 | | |
| Conlin, Patrick | | 00 | | |
| Daley, Charles | | 62 | | |
| Doyle, James | 2,248 | 3 07 | | |
| Oherty, Joseph | 2,357 | | | |
| Doody, P. George | 149 | 63 | | |
| shey, William. | 753 | 13 | | |
| ahey, Frank L | 958 | 00 | | |
| Aantle, James E | 696 | 75 | | |
| Miller, James H. | | 50 | | |
| Murray, Wm | | 00 | | |
| McPartland, James. | | 50 | | |
| Quinn, William | 1.062 | | | |
| | | 88 | | |
| Reed, James | 1.458 | | | |
| Rogers, Bart | | | | |
| pears, John | 1,045 | | | |
| pears, Henry | 1,702 | 40 | | |
| Spears, Martin | | 35 | | |
| Spears, James S | | 3 63 | | |
| Sherrard, John L. C | 830 | 85 | | |
| Sproul, John | 184 | 1 50 | | |
| Stone, Thomas J | 888 | 5 51 | | |
| Scott, William | 724 | 1 75 | | |
| Scott, Richard | 531 | L 00 | | |
| Thomas, John S | 1.390 | 25 | | |
| Thomas, Robert | | 3 63 | | |
| Fraynor, Thomas. | 2.027 | | | |

J. W. THCMAS, Secretary.

RETURN of Vessels arriving at the Port of St. John, N.B., subject to pilotage for the year ending December 31, 1899.

| | British. | Foreign. | Total. |
|------------------------------------------------------------------------------|--------------|--------------------------|----------------------------|
| Schooners. Brigs and brigantines. Ships. Barques and barquentines. Steamers. | 6 5 | 231 1 4 23 7 | 356 7 9 41 165 |
| • | 312 | 266 | 578 |
| Amount of pilotage received | \$ 21,038 80 | 8 8,446 03 | \$ 29,484 83 |

J. W. THOMAS, Secretary.

LICENSED Pilots, Port of St. John, N.B., for the year 1898-99.

| Name. | Age. | Rea | sidence. | Remarks. |
|---------------------|------|-----------|-----------------------------------------|-----------------------------|
| Bennett, James | 42 | St. John. | N.B | |
| Cline, Richard | 74 | " | | |
| Cline, Alfred | 42 | | | |
| Cline, Richard B | 29 | | | |
| Conlin, Patrick | 49 | " | | |
| Daley, Charles | 63 | | | |
| Doyle, James | 62 | | | |
| Doherty, Joseph | 53 | , , | | |
| Doody, P. George | 59 | | ••••• | i |
| Lahey, William | 70 | | | |
| Lahey, Frank L | 28 | | | |
| Mantle, James E | | 1 | • • • • • • • • • • • • • • • • • • • • | |
| Miller, James H | 22 | ** | • • • • • • • • • • • • • • • • • • • • | |
| Murray, William. | 25 | 11 | • • • • • • • • • • • • • • • • • • • • | |
| McPartland, James | 65 | " | • • • • • • • | |
| Quinn, William | 52 | " | ••••• | |
| Reed, James | | " | • • • • • • • • | |
| | 1 | " | | |
| | | " | • • • • • • • • | |
| Spears, John. | | " | • • • • • • • • | |
| Spears, Henry | 48 | 11 | • • • • • • • • | |
| Spears, Martin | | " | | |
| Spears, James S | 54 | " | • • • • • • • • | |
| Sherrard, John L. C | 65 | " | · · · · · · · · · · · · · · · · · · · | |
| Sproul, John | | " | | |
| Stone, Thomas J | 46 | 11 | | |
| Scott, William | 43 | " | | |
| Scott, Richard | 48 | 11 | | |
| Thomas, John S | 51 | 17 | | |
| Thomas, Robert | 58 | | • • • • • • • • • • • • • • • • • • • • | |
| Traynor, Thomas | 46 | - " | | |
| McAnulty, John | 61 | Musquash, | N.B | Licensed for Musquash only. |

J. W. THOMAS, Secretary.

APPENDIX No. 22.

REPORT OF PILOTAGE AUTHORITY OF SYDNEY, C.B., FOR THE YEAR ENDED DECEMBER 31, 1899.

NORTH SYDNEY, January 26, 1900.

F. GOURDEAU, Esq.,

Deputy Minister of Marine and Fisheries, Ottawa, Canada.

DEAR SIR,-I beg to wait on you with returns in connection with the pilotage authority district of Sydney, for the year ending December 31, 1899, showing:

| Balance due per account\$ | 718 | 80 |
|---------------------------|-------|----|
| Amount on deposit | 1,000 | 00 |
| | | |
| <u>\$</u> | 1 718 | 80 |

Which I trust will be found correct.

Your obedient servant, DANIEL McLEAN.

Secretary.

NORTH SYDNEY.

| | Number. | Tonnage. |
|------------------------------------------------------------------|-----------------------------|----------------------------------------------|
| British steamers Foreign British sailing vessels. Foreign Relief | 154 67 36 11 15 | 90,593 46,933 11,015 3,054 2,258 |
| | 283 | 153,853 |

PILOTAGE RECEIVED.

| From British From foreign From relief | , | | | | ٠. | | ٠. | | | | ٠. | | | | | | | | 1,94 | 14 | | |
|---------------------------------------------|---|--|------|------|--------|--|----|--|--|------|--------|--|--|------|--|------|--|--|------|--------|----|--|
| | | | | | | | | | | | | | | | | | | | 4,55 | 50 | 52 | |

INTERNATIONAL.

| | Number. | Tonnage. |
|-------------------------------------|---------------------------|------------------------------------------------|
| British steamers . Foreign " Relief | 229 94 17 6 5 | 317,853 138,695 10,892 3,497 3,197 |
| | 351 | 474, 134 |

PILOTAGE RECEIVED.

| From foreign " | sels | 5,211 0 | 00 |
|----------------|------|--------------------|--------|
| | | \$ 16,503 0 | 10 |

RECAPITULATION.

| Port. | Number of Vessels. | Tonnage. | Amouut. |
|--------------|--------------------------|-------------------------------|-----------------------------------------------|
| North Sydney | 283 351 634 | 153,853 474,134 627,987 | \$ ets. 4,550 52 16,503 00 21,053 52 |

MASTERS LICENSED.

| No. | Name. | Vessels. | Class. | Amount. |
|-----|---------------------------|-------------|--------|------------------|
| | D. Tashanas | D.I. | | \$ cts |
| 2 | P. Lechance. R. Fraser | Polino | | 100 00 100 00 |
| 4 | D. C. Fraser | Ronavieta | " | 100 00 |
| 5 | E. Couillard | Greetlands | " | 100 00 |
| 9 | J. Reed | Cape Breton | | 100 00 |
| 10 | II) A Scott | Harlow | i | 100 00 |
| 11 | W. H. Gould | Louisburg | | 100 00 |
| 12 | J. Delisle | Tiber | | 100 00 |
| | | | | 800 00 |

63 VICTORIA, A. 1900

Dr.

SYDNEY Pilotage Authority.

Cr.

| 1898. | \$ | cts. | 1899. | \$: | cts. |
|------------------------|-----------------------------------------------------------|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|-------------------------|----------------------|
| To paid total pilotage | 50 200 175 22 14 15 535 1,000 250 | 25 00 00 17 30 15 00 00 80 | By Total pilotage, per return License to pilots Boats licensed Masters licensed Balance on hand Interest. Deposit receipt, Union Bank | 110 16 800 513 | 98 90 00 00 |
| | | | | | |
| | | | January 23, 1899. | ì | |
| | İ | | By Balance brought down Amount on deposit, Union Bank | 718 1,000 | 80 00 |
| | | | ! | 1,718 | - 80 |

STATEMENT showing each Pilot's Earnings for Year ending December 31, 1899.

| Names. | Amounts. |
|-------------------------------|----------------|
| | \$ ct |
| William Ratchford | 603 54 |
| John Cann | 603 54 |
| John T. Mullins. | 603 54 |
| Andrew Ratchford | 603 54 |
| John Fraser | 1 11 7 7 7 |
| James McGilvary | 603 54 |
| Angus McNeil | 603 54 |
| John Carroll | 603 54 |
| George Brown | 603 54 |
| L. Connell. | 603 54 |
| James Carroll. | 603 54 |
| D. D. Petrie | 603 54 |
| John McNeil | |
| Peter Burke | 603 54 |
| James Shanahan | 603 5 |
| Will Brown | 603 54 |
| Thos. Ratchford | 603 54 |
| Geo. D. Townsend | 603 54 |
| John B. McGilvary | 603 54 |
| Lawrence Ling | 603 54 |
| James Fraser | 603 5 |
| Tom McNeil. | 603 54 |
| John T. Laffin | |
| Thomas Robberts | 603 54 |
| Bernard Carroll | 603 54 |
| Joseph Brown | 603 54 |
| Bernard Mullins | 603 54 |
| D. A. McInnis | 603 54 |
| E. D. Cann | 603 5 |
| Walter Handrigan | 603 54 |
| APPRENTICES. | |
| William Landilla | 201 5 |
| William Langille | 301 7 |
| Vincent McGilvary | 301 7 |
| Michael Curran Thos Buddosham | |
| Thos. Rudderham. | 301 7 |
| Ernest Richardson John Mahon | 301 7 301 7 |
| John Mahon | 301 7 |
| | 19,916 83 |

ANTHONY GANNON,

Head Collector.

63 VICTORIA, A. 1900

STATEMENT of Relief.

| | Date. | Name. | Amoun | ıt. |
|------|-------|--------------------|-------|--------|
| | 1899. | | \$ 0 | ets |
| lan. | 7 | Pilot John Curren | 25 (| 00 |
| 11 | 8 | Widow Madère | 20 (|)Õ |
| ſar. | 10 | | 15 (| DÖ. |
| May | 3 | Pilot D. McGilvray | 100 (| ŮÔ. |
| , | 12 | Widow Madère | 20 (| 00 |
| | 15 | Family Doyle | 15 (| 00 |
| 11 | 15 | Widow Mullins | 30 (| 00 |
| 11 | 15 | " Young | 30 (| 00 |
| 11 | 15 | " J. Carroll | 15 (| 00 |
| une | 5 | Family Doyle | 15 (| 00 |
| 11 | 6 | Margaret Petrie | 20 (| 00 |
| ** | 12 | Widow Brown | 15 (| 00 |
| ** | 14 | Isabell McGilvray | 15 (| 00 |
| ** | 15 | Widow J. McGilvray | 15 | 00 |
| Aug. | 15 | " Carroll | 30 (| 00 |
| " | 15 | " McInnis | 30 (| |
| 11 | 29 | May Petrie | 15 | |
| et. | 12 | Isabell McGilvray | 15 | |
| Эec. | 21 | May Petrie | | 00 |
| 11 | 21 | Widow Daley | | 00 |
| 11 | 21 | Pilot J. Curren | 20 (| |
| 11 | 21 | Widow Gillvray | 15 | |
| ** | 21 | " Brown | 15 | 00 |
| | | | 535 | 00 |

APPENDIX No. 23.

REPORT OF PILOTAGE AUTHORITY FOR CARAQUET FOR YEAR ENDED DECEMBER 31, 1899.

CARAQUET, December 26, 1899.

To the Honourable the Minister of Marine and Fisheries, Ottawa.

SIR,—I beg to inclose statement of pilotage paid to pilots in the pilotage district of Caraquet, during the year 1899, also statement of account of receipts and expenses of myself, the secretary to the pilotage commissioners.

I have the honour to be, sir,

Your obedient servant,

PHILIP RIVE, Secretary to Pilot Commissioners.

PHILIP RIVE, Secretary of Pilot Commissioners in account with the Pilotage Authority of Caraquet, 1899.

| | Salary 6 00 | 00 2 | PHILIP RIVE, |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| Dr. Xavier Poulain, pilot \$ 1 00 | Alex. Wilson, pilot 1 00 Chas. Vibert, pilot 1 00 Chas. Vibert, pilot 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 Chas. Vibert 1 00 | Jos. A. Chiasson 1 00 7 00 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - 7 00 - | |
| at license | | = | 26, 1899 |
| To received bo | | = : | CARAQUET, December 26, |

Secretary to Pilot Commissioners.

STATEMENT of Pilotage paid to Pilots in the Pilotage District of Caraquet during the Year 1899.

| May 23 Chas. Vibert July 28 " | | Date of Name of Pilot Inwards. | Date of Arrival. | |
|-------------------------------------|---------------------------------------------|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Vibert Chia 7ibert 9eGra 7ibert | ay 19 Chas. Viber' ug. 6 19 10s. X. Chia 19 10s. X. Chia 23 Chas. Vibert x. 7 19 Alex. DeGra 22 Chas. Vibert | 99 May 19. Chas. Vibert May 294 July 17. " July 17. " Aug. 6 Aug. 6 " 19. Jos. X. Chiasson Oct. 76 " 23. Chas. Vibert September 182 " 22. Chas. Vibert No. 182 " 22. Chas. Vibert " No. 182 " 22. Chas. Vibert " No. 182 " 22. Chas. Vibert " " No. 182 " 23. Chas. Vibert " " No. 182 " 24. Chas. Vibert " " No. 182 " 25. Chas. Vibert " " " " " " " " " " " " " " " " " " " | British Schooner 99 May 19 Chas. Viber 99 Aug. 6 99 Aug. 6 99 Aug. 6 76 23 Chas. Vibert Brigsntine 166 99. Alex. DeGra Barque 182 22 Chas. Vibert 22 Chas. Vibert Barque 182 22 Chas. Vibert |

Secretary to Pilot Commissioners.

J. H. STEWART, Secretary.

SESSIONAL F

REPORT OF THE PILOTAGE AUTHORITY OF BATHURST, N.B., FOR THE YEAR ENDING DECEMBER 31, 1899.

APPENDIX No. 24.

STATEMENT showing the number of vessels, collections and disbursements, Pilotage District of Bathurst, N.B., season 1899.

| | | | | | | - | | | | | | | |
|-----------|----|--------|------------|-------------------------------------|----------|------------|-----------------------------|--------------------------------------------------|---------------------------------------------------------------------|------|------------------|----------|-----------------|
| Vessels. | | | | Foreign Vessels. | Vessel | s i | | Disbursements. | ţs. | * | *Pilotage Rates. | B.R. | Se |
| Outwards. | 2 | rds. | In | Inwards. | 8 | Outwards. | Total. | | | Out | Outside Bar. | On | Outside Bar. |
| No. An | A. | nount. | No. | No. Amount. No. Amount. No. Amount. | No. | Amount. | | To whom. | Amount. In. Out. In. Out. | In. | Out. | In. | Out. |
| | | e cts. | | S cts. | | e cts. | s cts. s cts. | | & cts. & c. | ပ် | ಲೆ •ೂ | ပ် •၈ | ပ် ••• |
| | œ | 86 20 | x 0 | 150 80 | ∞ | 120 80 | 411 60 | 411 60 Pilots, Commission- ers and Secretary. | $ \begin{cases} & 391 \ 02 & 1 \ 20 & 0 \ 80 \ 1 \ 40 \end{cases} $ | 1 20 | 98 C | 1 40 | 1 00 |
| | | | | | | | | | 411 60 | _ | | | |

* Shipping from ballast ground to loading berth \$4; steamers one cent per ton extra.

FREDERICK REYNOLDS. WILLIAM H. DALY, NAZAIRB ACHR,

JOHN E. O'BRIEN, THOMAS LEAHY, Commissioners—

SAMUEL MELANCON. PATRICK J. BURNS,

APPENDIX No. 25.

PILOTAGE AUTHORITY FOR THE DISTRICT OF PARRSBORO', N.S., FOR 1899.

Amount of Pilotage Fees collected for the year 1899, was as follows :---

| Dr. | \$ | cts. | Cr. | \$ | cts. |
|-------------------------|------------|----------|-----------------------------------------|------------|------|
| 13 British vessels paid | 786 342 | 75 00 | Paid pilot Anderson | 523 401 | |
| \$35 each | 105 | 00 | Placed to credit of commission account. | 286 | |
| Port Greville | 21 | 65 | | | |
| Advocate Harbour, | 46 | 62 | | | |
| | 1,302 | 02 | | 1,302 | 02 |

Names and Ages of Polots, &c.

| Names. | Age. | |
|-----------------------------------------------------------------------------------|----------------------------|------------------------------------------------------------------------|
| Robert Anderson James George George E. Pettis. Baxter McLellan J. Ephriam Morris. | 46 59 61 41 38 | Full district. "For Spencer's Island only. For Advocate Harbour only. |

The rates vary from 75c. to \$2,75 per draught foot on sailing vessels and 50c. extra on steamers as per inclosed tariff.

E. GILLESPIE, Secretary P. P. Authority.

PARRSBORO, N.S., December 7, 1899.

APPENDIX No. 26.

REPORT OF PILOTAGE AUTHORITY FOR THE PORT OF LOUISBOURG, CAPE BRETON, FOR YEAR ENDING DECEMBER 31, 1899.

| Amount collected for pilotage | \$2,665 106 | | \$2,558 | 54 |
|--------------------------------------------|----------------|-----------|----------------|-----------|
| Paid expenses, receipt books and telegrams | 3 3 | 81 00 | Ψ2,000 | |
| eight pilots | 2,551 | 73 | | |
| _ | | | 2,558 | 54 |
| Average each pilot | | | \$ 318 | 96 |
| Received from foreign vessels | | | \$1,028 | 22 |
| " British " | | | 1,636 | 92 |

No change in pilots except W. P. Cann retired, and John E. Tutty, age 40, appointed in his place.

I certify the above to be correct.

PHILIP TOWNSEND,

Secretary, Pilotage Authority, Port of Louisbourg.

LOUISBOURG, CAPE BRETON, July 14, 1900.

APPENDIX No. 27.

REPORT OF PILOTAGE AUTHORITY FOR KINGSTON, KENT CO., N.B., FOR YEAR ENDING DECEMBER 31, 1899.

KINGSTON, KENT Co., N.B., December 7, 1899.

F. GOURDEAU, Esq.,

Deputy Minister of Marine and Fisheries,

Ottawa,

Dear Sir,—The pilot commissioners of this port held their annual meeting at the office of Mr. J. W. Brait, Kingston, Kent Co., N.B., all being present except Messrs. Walker and Hudson.

Commissioners moved and decided that the following pilots, being duly qualified and agreeing to comply with rules and regulations, to be granted licenses, viz.: William Irving, James Long, Albert Long, William Long, Henry D. Irving and John Curwen for season 1899.

Thirteen square rigged vessels, 6,556 tons register, and one steamer 1,796 tons have loaded and sailed from this port without any report of damage this season.

Position of bar from lighthouse on south beach N.E. by N. 400 fathoms to buoy, then N.N.E. 150 fathoms and E. by N. 100 fathoms across bar. Depth on bar, 11 feet water L. W. O. springs.

Yours obediently,

JAMES GORDON.

Secretary Pilot Commissioners.

APPENDIX No. 28.

REPORT OF THE PILOTAGE AUTHORITY OF PUGWASH FOR THE YEAR ENDED DECEMBER 31, 1899.

Office of Pugwash Pilot Commission, Pugwash, July 24, 1900.

To Deputy Minister of Marine and Fisheries, Ottawa.

I hereby submit the following report for the year ending 1899:—

| There were 19 vessels, paying \$620.00. Four British steamships One Danish steamship Fourteen Norwegian barques | 40 | 00 |
|--------------------------------------------------------------------------------------------------------------------|-------|-----|
| Total | \$620 | 00 |
| Pilots. | | Age |

| Pilots. | Age. |
|------------------|-----------|
| J. O. Reid | 45 |
| Neill McIver | |
| Clarence Reid | 40 |
| George Cooper | 48 |
| George Huther | 54 |
| Andrew Seaman | 54 |
| Alfred E. Seaman | 22 |

No other money has been received or expended by the Pilot Commission.

1 am, sir, yours respectfully,

HENRY SMITH,

Secretary Pilot Commission.

APPENDIX No. 29

REPORT OF THE PILOTAGE AUTHORITY OF THE COUNTY OF RICH-MOND FOR THE YEAR ENDED DECEMBER 31, 1899.

ARICHAT, July 18, 1900.

Deputy Minister Marine and Fisheries, Ottawa.

Dear Sir,—In reply to your letter of the 10th inst., I beg to say that I have but a small report to make, as there is but one pilot in the pilotage district of the County of Richmond. Since the tonnage has been changed from 80 to 150 tons for compulsory, the St. Peters Canal pilots did not secure their licenses, and again the steamers are all the go now. The only report is as follows:

| John Gayetch, Pilot No. 1,— July 16, piloted British brig "C.R.C.", 239 tons December 26 " " " | | |
|--------------------------------------------------------------------------------------------------|------|----|
| | \$27 | 00 |

December 30, three-masted schr. "Harry W. Loose," 298 tons, did not pay his pilotage. Capt. promised to send the payment but did not. And when there was branch pilots at St. Peters Canal the vessels went through and did not pay several times.

Yours truly,

ISIDORE LE BLANC,

Secretary.

APPENDIX No. 30.

PILOTAGE RETURN, DISTRICT OF BUCTOUCHE, PROVINCE OF NEW BRUNSWICK, FOR THE YEAR 1899.

(Act 36 Vic., cap. 54, sec. 24.)

Вистоисне, N.B., July 11, 1900.

JOHN HARDIE, Esq.,

Acting Deputy Minister Marine and Fisheries, Ottawa.

SIR,—I beg to acknowledge receipt of yours of 10th inst., and to apologize for neglect in omitting to forward pilotage returns for this district in due time.

The pilots did not report, as requested, at end of the season, and the matter was

afterwards overlooked.

I now inclose herewith as notified, hoping they will reach within required time.

Your obedient servant,

JOHN C. ROSS,

Secretary Buctouche Pilotage Authority.

BUCTOUCHE, N.B., July 14, 1900.

1st. Names and ages of pilots licensed:—

 Calixte Léger
 Age 67 years.

 Joseph Crossman
 " 48 "

2nd. The above pilots are licensed to undertake the pilotage of vessels of every

description within and throughout the pilotage district of Buctouche.

3rd. Pilotage dues are charged as per section 12 of rules and regulations for the District, viz.: One dollar and fifty cents per foot draught of water, both inward and outward bound.

4th. Total amount of pilotage dues paid, \$50.25. Of this amount \$38.25 was paid by one foreign vessel (German), the only one liable to pilotage under the regulations, and \$12 by schooner (British), by which employment of pilot was optional.

5th. The pilotage dues as above were paid to the pilots who performed their duties

as such to the respective vessels.

6th. No new licenses were issued during the year and no expense incurred by the authority.

JOHN C. ROSS,

Secretary of Buctouche Pilotage Authority.

APPENDIX No. 31.

REPORT OF THE PORT WARDEN OF MONTREAL FOR THE YEAR ENDED DECEMBER 31, 1899.

MONTREAL, January 6, 1900.

Honourable Sir L. H. DAVIES, K.C.M.G.,
Minister of Marine and Fisheries,
Ottawa.

SIR,—I have the honour, by direction of the council of this board and in compliance with section 31 of the Act governing the Port Warden office, 45 Vic., chap. 45, to transmit herewith documents as follows:—

1. Port Warden's report for year 1899.

2. Audited statement of receipts and expenditures of the Port Warden office for the year ending December 31, 1899.

3. Statement of investments of Port Warden Surplus Funds.

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

GEORGE HADRILL,

Secretary.

MONTREAL, Dec. 11, 1899.

To the President and Council, of the Montreal Board of Trade.

Gentlemen,—I have the honour to submit the annual report of the business of this office, with statements of exports, receipts and expenditures for the year 1899.

Navigation opened by the arrival from sea of the ss. *Dominion* at 3 p.m., April 27, and closed with the departure for sea of the ss. *Mayflower* at 7.30 a.m. on Nov.29, one day later than the last departure last year. We have had a remarkably mild and open fall, there being no ice, and little evidence of the approach of winter when the ss. *Mayflower* sailed. The harbour plant and dredges worked until Dec. 6.

The first sailing vessel to arrive was the schooner Potanoc on June 3, with a

cargo of molasses from Barbadoes.

The first vessel to enter the Gulf of St. Lawrence this season by the way of the Straits of Belle Isle was the ss. *Springwell* for Quebec, which was reported to have passed through the straits on June 22. Later, a number of steamers attempted to come by that route and were compelled, owing to the amount of field ice encountered, to bear

up for Cape Race and pass south of Newfoundland.

Four hundred and thirty-four over sea or foreign going vessels of all kinds were entered at this office, with a tonnage of 1,092,955 tons, being a decrease of 82 vessels and 119,792 tons less than last year. This decrease was in a great measure caused by underwriters discriminating against the St. Lawrence route, the tramp class of vessel which usually come at the opening of navigation for full cargoes of grain and lumber being prevented from coming to the St. Lawrence owing to the high rate of insurance charged on the hulls of the vessels, and in the latter part of the season by a number of the regular line steamers being withdrawn, having been taken up by the Imperial Government as transports for South Africa.

The business of the port, which in 1898 was abnormally increased by ton na diverted from United States ports by the Spanish-American war, has been decreased this season by the withdrawal of ships for transport purposes before alluded to.

The business to the lower ports this season consisted of: Entered, 344 vessels of all classes, with a tonnage of 402,325 tons, against 330 vessels of all classes last year, with a tonnage of 348,500 tons, being an increase of 14 vessels and 53,825 tons over

the business of last year.

Clearances of vessels loaded for the lower ports this season were as follows: 105 vessels of all classes with a tonnage of 91,045 tons, against 115 vessels last season with a tonnage of 88,600 tons, a decrease of 10 vessels but an increase of 2,445 tons. The difference in the lower port trade between the number of vessels entered and cleared at this office is accounted for by 239 vessels going hence light, being solely in the coal carrying trade.

The South American lumber trade from this port has been very poor this season, owing, possibly, to the scarcity of sail tonnage. There have been only two vessels loaded

for the River Platte from Montreal this year.

The water in the ship channel the past season has been somewhat lower than last year, more especially since the end of August. Notwithstanding the low water in the ship channel, the river between Montreal and Quebec has been comparatively free from accident, the stranding of the ss. Galia on Stone Island, near the head of Lake St. Peter, on May 14, and the mishap to the ss. Parisian when leaving this port on Aug. 31 not being attributable to lack of water in the ship channel.

The shipments of various kinds for the past season manifested and reported at this

office as per attached statement.

All of which is respectfully submitted.

I am, gentlemen, your obedient servant,

ARCHIBALD REID,

Port Warden.

63 VICTORIA, A. 1900

COMPARATIVE STATEMENT of Shipments for the Years 1898 and 1899 as per Manifests reported at Port Warden's Office.

| Description | 1898. | 1899. | 1899. | | | | |
|-------------------------|------------------------|-----------------------------|-----------------------------------------|------------------------|--|--|--|
| Description. | 1898. | 1099. | Increase. | Decrease. | | | |
| Wheat Bush. | 9,151,996 1,721,914 | 10,103,232 1,341,336 | 951,236 | 380,578 | | | |
| Barley and rye. | 1,368,633 6,858,031 | 1,469,954 3,971,337 | 101,321 | 2,886,694 | | | |
| Corn "Flax seed " | 19,612,637 776,887 | 13,214,668 868,450 | 91,563 | 6,397,969 | | | |
| Total grain | 39,490,098 | 30,968,977 | 1,144,120 | 9.665,241 1,144,120 | | | |
| Total decrease of grain | | | | 8,521,121 | | | |
| Flour, meal, &c Brls. | 1,006,381 | 1,299,202 | 292,821 | | | | |
| Ashes | 1,014 395,255 | 1,449 $287,502$ | 435 | 167,753 | | | |
| Cheese Butter Pckgs | 1,878,793 273,923 | 1,858,573 460,598 | 186,675 | 20,220 | | | |
| EggsBox meat | 201,644 160,884 | 192,251 1 23,7 08 | • • • • • • • • • • • • • • • • • • • | 9,393 37,176 | | | |
| Lard " Dead meat. Qtrs. | 101,221 17,279 | 175,083 62,893 | 73,862 45,614 | | | | |
| Pulp | 15,920 43,503 | 594 45,031 | 1,528 | 15,326 | | | |
| Hay | 7,124 7,242 | 8,890 7,558 | 1,766 316 | | | | |
| Phosphates | 627 | 190 3,967 | | 437 160 | | | |
| Lumber | 4,127 330,840,915 | 284,643,393 | • • • • • • • • • • • • • • • • • • • • | 46,197,52 | | | |
| Cattle Head Horses " | 98,184 5,918 | 81,806 4,734 | | 16,378 1,18 | | | |
| Sheep | 34,844 19 | 57,875 6, 0 65 | 23,031 6,046 | | | | |
| Dried grains | 1,849 | 3,149 | 1,300 | | | | |

STATEMENT of Oversea or Foreign going Vessels

| Description. | : | 1898. | 1899. | | | |
|---------------------------------------------|---------------------|--------------------------------------|---------------|-----------------------------|--|--|
| Description. | No. | Tons. | No. | Tons. | | |
| Steamers Ships Barques Brigs and schooners. | 497 3 12 4 | 1,198,078 4,215 9,246 1,208 | 422 5 7 | 1,088,347 2,645 1,963 | | |
| Totals | 516 | 1,212,747 | 434 | 1,092,955 | | |

Decrease of 82 vessels and 119,792 tons.

STATEMENT of Lower Port Arrivals.

| Steamers. Brigs and schooners. | 316 | 347,151 | 332 | 401,219 |
|--------------------------------|-----|---------|-----|---------|
| | 14 | 1,349 | 12 | 1,106 |
| Totals | 330 | 348,500 | 344 | 402,325 |

Increase of 14 vessels and 53,825 tons.

CLEARANCES for the Lower Ports.

| Steamers . Brigs and schooners. | 105 | 87,769 | 95 | 90,211 |
|---------------------------------|-----|--------|-----|--------|
| | 10 | 831 | 10 | 834 |
| Totals | 115 | 88,600 | 105 | 91,045 |

Decrease, 10 vessels; increase, 2,445 tons.

PORT WARDEN'S OFFICE.

| DR. | STATEMENT of Recei | pts and E | xpenditure | for the y | Receipts and Expenditure for the year ending December 31, 1899. | | CR. |
|---------|---------------------------------------------------------------------------------|---------------------------------|-----------------------|------------|------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| 1898. | | e cts. | & cts. | 1859. | | S cts. | s cts. |
| Dec. 31 | Dec. 31 To balance, cash in bank | 9,314 76 | 9,462 60 | Dec. 31 By | | 2,500 00 1,800 00 | |
| 1899. | Outstanding accounts, 1898 | : | 70 94 | | Jas. N. Bales, Deputy Port Warden W. J. Anderson, bookkeeper | 1,900 1,500 2,500 9,000 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 | |
| Dec. 30 | ed as unc | : | T - American al-Mills | | S. Hayes, junior clerk. J. A. Vibert | 320 00 800 00 | |
| | 1,641,530 " peas 1,469,954 " barley and rye | | | | Arch. Reid, Port Warden | 300 00 | |
| | 13,214,668 " corn | | _ | | Jas. N. Bales W. J. Anderson | | |
| | 7,558 tons oil cake | | | | Board of Trade, secretarial expenses. | 1,600 00 | |
| | 190 in Interfals | | | | Telephone, light, cleaning office, &c Telephone, light, cleaning office, &c Unotelly register and shinning books | 233 36 | |
| | 1,299,202 " flour, meal, &c | 974 10 | | | Books, printing and stationery. | 101 90 | |
| | 287,502 " apples | 718 81 865 40 | | | Cab and car fares | 265 853 | |
| | 57,875 " sheep | 144 73 4.156 22 | | | Alf. W. Hadrill, auditor | 8 | 11,266 96 |
| | 8,890 " hay | 177 80 | | | Treasurer Board of Trade, for investment. Outstanding accounts, 1898, written off | | 5,000 00 51 10 |
| - | Port Warden's fees (inwards) | 211 00 | | | 1899. | 00 027 | |
| | Special surveys | 244. 88.28 98.28 98.28 | | | Dalance cash in Dank | 186 63 | 7,646 45 |
| | Dalingget cargo certificates | 100 00 | 11,339 96 | | | | |
| | Interest on pank account Treasurer Board of Trade, interest on investments | 2,947 17 | 3,094 23 | | | | |
| | | | 23,967 73 | | | | 23,967 73 |
| Jan. 1 | 0. 1 To balance | 7,646 45 | | | | | |
| Aud | Audited and found correct. ALF. W. HADRILL, Auditor. MONTREAL, January 4, 1900. | | E. & C | O. 强 | ARCHIBALD REID, Por | EID, Port Warden. | rden. |

STATEMENT of the Investment of the Surplus Funds of the Port Warden's Office at Montreal, and of interest accruing therefrom during the year ended December 30, 1899.

| Date. | | Amount. | Per cent for 12 mos. | Interest. |
|-------|-----------------------------------------------------------------------------------------------------------------------------------|---------|----------------------------|--------------------|
| | | \$ | | \$ cts |
| | pended \$2,380.34 in purchase of Dominion Government Stockpended \$7,254.11 in purchase of city of Montreal Regis- | 2.300 | 31/2 | 80 50 |
| _ | pended \$1,204.11 in purchase of city of Montreal Regis- tered \$5,031.34 in purchase of city of Montreal four | 7,000 | 5 | 350 00 |
| | per cent Registered Stock (Nos. 1720, 1721, 1722, 1723, 1724=5 at \$1,000)pended \$10,320.75 in purchase of city of Montreal Con- | 5 000 | 4 | 200 00 |
| i | ans to Montreal Board of Trade Building Fund to De- | 10,000 | 4 | 400 00 |
| j. | cember 30, 1899ditional loan to Montreal Board of Trade Building Fund | 45,000 | 4 4 for 7 m. | 1,800 00 116 67 |
| | | | | 2,947 17 |

FRED W. EVANS, Treasurer.

GEO. HADRILL,
Secretary.

MONTREAL, January 5, 1900.

APPENDIX No. 32.

REPORT OF PORT WARDEN AT QUEBEC FOR THE YEAR ENDED DECEMBER 31, 1899.

PORT WARDEN'S OFFICE, QUEBEC, December, 1899.

F. GOURDEAU, Esq.,

Deputy Minister of Marine and Fisheries, Ottawa.

SIR,—As requested by the 30th section of the Port Warden Rules, I beg respectfully to submit the following annual statement of the business transacted in this office during the year ending December 31, 1899, as follows.

One hundred and two steamers were surveyed for clearance outward after taking part cargo on board at this port, having previously shipped part cargo of grain and other goods at Montreal.

Eleven steamers and eleven sailing vessels were surveyed, their hatches opened and cargo examined on their arrival from sea.

Four steamers were surveyed on account of grounding and stranding in the River St. Lawrence below and above Quebec,

Two steamers were surveyed on account of ice damage.

Two steamers were surveyed on account of damage to propeller.

Three steamers were surveyed on account of collision damage.

Four steamers were surveyed on account of excessive deckload and a portion removed.

Eleven surveys were held on damaged goods in store and on wharfs.

The receipts and disbursements of this office were as follows:-

| Recipts from all sources\$1 Expenses | | |
|--------------------------------------|-----|----|
| | | |
| Balance net receipts\$ | 680 | 00 |

Besides the above there were several vessels damaged by stranding and otherwise that did not come under the Port Warden rules.

Seven steamers took live stock at Quebec during the season, amounting in all to 3,267 cattle and 734 sheep, on which was collected \$52.69, which was deposited in the bank of Montreal to the credit of the Receiver General.

With much respect,

I am your obedient servant,

W. SIMONS.

Port Warden.

Quebec, December, 1899.

Return of cattle and sheep shipped at the port of Quebec during the season of 1899, with the names of steamers and amount of fees collected.

| | Name of Vessel. | Number of Sheep. | Number of Cattle. | Amount of Sheep. | Amount of Cattle. |
|-------------------------------------------------------------|-----------------|------------------------|-------------------------|------------------|-------------------------------------------------------|
| | | | | \$ cts. | \$ cts |
| lemore, man san gemore emore gemore emore | 88 | 734 | 342 | 3 67 | 5 13 8 79 3 95 10 07 5 13 7 01 8 94 |
| more | W | 734 | - | _ | |

RECAPITULATION.

| Seven One | steamers " | took " | 3,267 734 s | cattle heep | from | this | por " | t | • • | • • | •• | .\$ | 49 3 | $\begin{array}{c} 02 \\ 67 \end{array}$ |
|--------------|---------------|-----------|----------------|----------------|-------|--------|----------|-----|-----|-----|-----------|----------|---------|-----------------------------------------|
| Total | amount o | f fees | receiv | ed for | inspe | ection | ı of | fit | tin | gs | . | . \$ | 52 | 69 |

W. SIMONS,

Port Warden and Inspector of Cattle and Fittings.

APPENDIX No 33.

REPORT OF THE PORT WARDEN OF HALIFAX FOR THE YEAR ENDING DECEMBER 31, 1899.

PORT WARDEN'S OFFICE, HALIFAX, N.S., December 31, 1899.

F. GOURDEAU, Esq.
Deputy Minister of Marine and Fisheries,
Ottawa.

Sir,—I have the honour to submit my report for the year ending December 31, 1899, accompanied by a statement of the receipts and expenditure during that period.

Surveys were held by me on twenty-nine steamers and one sailing vessel which arrived at this port in a damaged condition during the year. The necessary repairs were made to the vessels, and those of them bound to other ports with their cargoes proceeded to their destinations where those of them now due have arrived safely.

I have the honour to be, sir,

Your most obedient servant,

DAVID HUNTER,

Port Warden.

STATEMENT of Receipts and Expenditure of the Port Warden, Halifax, N.S., from January 1 to December 31, 1899.

| Dr. | \$ cts. | Cr. | |
|----------------------------|----------|------------------------------------------------------------------------------|---------------------|
| To amount of fees received | 2,304 80 | By Paid assistants, office expenses, &c. Amount reverting to Port Warden. | 1,395 '37 909 43 |
| | 2,304 80 | | 2,304 80 |

I hereby certify that the above is a true and correct statement of the receipts and expenditure of the Port Warden at Halifax, N.S., during the year 1899.

DAVID HUNTER.

Port Warden.

APPENDIX No. 34.

REPORT OF THE PORT WARDEN FOR THE PORT OF NORTH SYDNEY FOR YEAR ENDED DECEMBER 31, 1899.

PORT WARDEN'S OFFICE, January 3, 1900.

F. GOURDEAU, Esq.,

Deputy Minister of Marine and Fisheries, Ottawa.

 S_{IR} ,—I have the honour to report as follows: during the past season I have held the following surveys:—

On 3 steamships.

On 4 sailing vessels.

These were all on vessels which arrived here in a damaged condition and had considerable repairs done at this port.

| My total fees received were Office rent and expenses | | |
|-------------------------------------------------------|--------------|----|
| Net fees received | \$ 81 | 00 |

As directed by you, I called on the executors of Captain Mackay, the late Port Warden, who informed me there were no books to hand over, as all his memorandum was kept in private books. They also informed me he had done no port warden work during the past year.

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

ANDREW NISBET,

Port Warden.

APPENDIX No. 35.

REPORT OF PORT WARDEN FOR PORT OF PICTOU FOR YEAR ENDED DECEMBER 31, 1899.

| Рісточ, N.S. January 3, 1900. |
|----------------------------------|
| On survey on Russian Bark Lima |
| \$34 00 Expenses— |
| Thos. Robly Dub |
| Balance \$19 00 |
| W. C. MUNRO, |
| Port Warden. |

APPENDIX No. 36.

REPORT OF THE PORT WARDEN FOR RIMOUSKI THE YEAR ENDED DECEMBER 31, 1899.

Rimouski, December 5, 1899.

Honourable Minister of Marine and Fisheries, Ottawa.

SIR,—I have the honour to submit my report as Port Warden at Rimouski. I neither visited nor collected money from a single vessel during last season.

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

CAPT. ELZ. HEPPELL,

Port Warden.

APPENDIX No. 37.

REPORT OF THE PORT WARDEN FOR THE PORT OF PORT HAWKES-BURY FOR THE YEAR ENDED DECEMBER 31, 1899.

F. GOUDREAU, Esq.,
Deputy Minister Marine and Fisheries,
Ottawa.

SIR,—I have the honour to submit my annual report of the doings of this office for the year ending December 31, 1899. Also the names of all the vessels on which surveys were held by the port warden of Port Hawkesbury during the year just closed.

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

D. W. HENESEY,

Port Warden.

NUMBER of Vessels, Rig and Name of Damaged Vessels Surveyed by me.

| 18 | 99. | \$ | ; |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|
| May | Schooner Maggie Smith of Lunenburg wrecked at Harbour La Buche, N.S., was 80 tons, and purchased by D. Anderson and repaired by him as a coasting vessel. Schooner Maranda of Gloucester, U.S., Edward Morris master, was 103 tons: | 10 | 00 |
| ." | was repaired here and arrived at her port of destination | 5 | 00 |
| June | 23 Iron schooner Clifton of Louisburg was thoroughly repaired here, and classed in the American Bureau of Shipping by me | 30 | 00 |
| Nov. | 23 The barque Gudrun of 487 tons was thoroughly repaired here, and caulked from keel to gunwale, and her cargo of lumber reloaded, and is now ready to sail, this being all the vessels surveyed by me during the past year | 18 | 00 |
| | | 63 | |

I do hereby certify that the above is true and correct to the best of my knowledge and belief.

D. W. HENESEY,

Port Warden.

APPENDIX No. 38.

REPORT OF THE PORT WARDEN FOR PRINCE EDWARD ISLAND FOR YEAR ENDED DECEMBER 31, 1899.

PORT WARDEN'S OFFICE,

PRINCE EDWARD ISLAND, December 31, 1899.

To SIR L. H. DAVIES,

Minister of Marine and Fisheries. Ottawa.

Sir,—I have the honour to submit my annual report of the business of my office during the past year.

Navigation remained open later than usual, which enabled vessels to get to sea in

safety.

I am glad to report no loss of any grain-laden vessels from the Island this season.

I have the honour to be, sir,

Your obedient servant,

H. P. WELSH.

RECEIPTS and Expenditure of the Port Warden's Office, Prince Edward Island for the Year ending December, 1899.

| Date. | Receipts. | Amount. | Date. | Lapenditure. | Amount. | | |
|-------|------------------------------------------|-------------------------|-------|----------------------|--------------------------|--|--|
| 1899. | To fees derived from grain-laden vessels | 73 00 14 00 18 00 | 1899. | By Expense of office | \$ cts. 6 75 33 66 86 92 | | |

I hereby certify the above to be a correct statement.

H. P. WELSH.

CHARLOTTETOWN, P.E.I., December 31, 1899.

APPENDIX No. 39.

REPORT OF THE PORT WARDEN FOR THE PORT OF YARMOUTH, N.S., FOR THE YEAR ENDED DECEMBER 31, 1899.

YARMOUTH, N.S., January 2, 1900.

F. GOURDEAU, Esq.,

Deputy Minister of Marine and Fisheries, Ottawa.

SIR,—I now make my report as Port Warden for Yarmouth, N.S., for year ended December 31, 1899.

I have been called on three times to hold surveys on vessels arriving in damaged conditions, three times for seaworthiness, nine times for survey of hatches of vessels arriving with cargo and once for survey of cargo of ss. Castillian

Total net amount of fees collected was \$2.00.

I remain your obedient servant,

EBEN SCOTT,

Port Warden.

APPENDIX No. 40.

REPORT OF THE PORT WARDEN AT THE PORT OF MONCTON, N.B., FOR THE YEAR ENDED DECEMBER 31, 1899.

Moncton, N.B., December 30, 1899.

F. GOURDEAU, Esq.,
Deputy Minister of Marine and Fisheries,
Ottawa.

SIR,—I beg to report that during the year ended December 31, 1899, I held a survey on the hatches of schooner Sam Slick damaged at this port, and issued a certificate in accordance with the facts ascertained and received a fee of two dollars and fifty cents (\$2.50) for my services.

No other business transacted during the year.

Yours very respectfully,

JAMES HAMILTON,

Port Warden.

APPENDIX No. 41.

REPORT OF THE PORT WARDEN FOR ST. ANDREWS, N.B., FOR THE CALENDAR YEAR ENDED DECEMBER 31, 1899.

| April | 1-8 | urvey | on hatches, sch | oor | ner Adelade | \$ | 1 | 50 |
|-------|------|-------|-----------------|-----|-------------------|-------------|----------|----|
| ٠., | 3 | " | " | " | Nellie J. Crooker | - | | 50 |
| " | 12 | " | 66 | " | Annie M. Allen | | 2 | 50 |
| 66 | 14— | " | ground ties | " | Annie M. Allen | | 2 | 00 |
| June | 11 | ** | hatches | " | Clement | | 2 | 50 |
| Augus | st 2 | " | Pilot Boat 1 | No. | 1 | | 1 | 00 |
| | | | | | - | \$ 3 | 12 | 00 |

I hereby certify that this is a true and correct statement of all dues collected by me as Port Warden for the year 1899.

JOHN WREN,

Port Warden.

St. Andrews, N.B., January 4, 1900.

APPENDIX No. 42.

REPORT OF THE PORT WARDEN FOR THE PORT OF CHATHAM, N.B., FOR YEAR ENDED DECEMBER 31, 1899.

CHATHAM, N.B., December 18, 1899. .

Department of Marine and Fisheries, Ottawa.

Dear Sirs,—Inclosed please find copy of the only survey held at this port for the season of 1899; amount of fee, \$10. The Miramichi River is closed with ice five miles below Chatham, and no vessels expected to arrive.

I remain your obedient servant,

W. MUIRHEAD,

Port Warden.

(Copy.)

I, William Muirhead, Port Warden of the Port of Chatham, N.B., Dominion of Canada, certify that I have examined alterations and repairs made on the hull of barque Ruth recently converted into a coal barge, and find that she has been thoroughly caulked and repaired in a workmanlike manner. I also find her tight, sound and seaworthy and fitted to carry a full cargo of lumber to Sydney, Halifax, or elsewhere that she may be towed.

WILLIAM MUIRHEAD.

Port Warden.

Dominion of Canada, Province of New Brunswick, Port of Chatham, July 22, 1899.

Fee, \$10.

APPENDIX No. 43.

REPORT OF THE PORT WARDEN OF VANCOUVER FOR YEAR ENDED DECEMBER 31, 1899.

VANCOUVER, B.C., January 4, 1900.

Hon. Sir L. H. Davies,
Minister of Marine and Fisheries,
Ottawa.

SIR,—I have the honour of submitting to you my annual report as Port Warden of the port of Vancouver, B.C., for the year ending December 31, 1899.

| Amount received for the surveys of hatches of vessels Surveys of cargoes | | |
|---------------------------------------------------------------------------|-------|----|
| | \$312 | 00 |

I have the honour to be Your obedient servant,

MALCOLM McLEOD,

Port Warden.

APPENDIX No. 44.

REPORT OF PORT WARDEN OF VICTORIA AND ESQUIMALT, FOR THE YEAR ENDED DECEMBER 31, 1899.

VICTORIA, B.C., January 3, 1900.

The Deputy Minister of Marine and Fisheries, Ottawa.

Sir,—I have the honour of submitting my annual report as Port Warden for the ports of Victoria and Esquimalt for the year ending December 31, 1899.

I have the honour to be, sir,

Your obedient servant,

CHAS. E. CLARKE,

Port Warden.

APPENDIX No. 45.

PORT WARDEN'S REPORT, WHITNEY PIER, SYDNEY, C.B., FOR THE YEAR ENDED DECEMBER 31, 1899.

Minister Marine and Fisheries, Ottawa.

SIR,—I have the honour to report to you the proceedings of this office for the year 1899. Surveys held on 41 steamships. Fees collected as follows:

| Surveys on hull seaworthiness | \$32 8 | 00 |
|-------------------------------|---------------|----|
| Office rent and expenses | | |
| | | |
| | \$272 | UÜ |

The offices discharged were of the usual description.

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

JAMES CARLIN,

Port Warden.

APPENDIX No. 46.

HARBOUR MASTERS.

Table showing the names of Ports proclaimed under certain Dominion Acts, the provisions of which are found in Chapter 86, Revised Statutes of Canada, for the appointment of harbour masters; the dates of proclamation; the names of the harbour masters appointed; the dates of the appointment of harbour masters; the amount which each of their salaries is not to exceed; the amount of fees collected by each of them during the calendar year ended December 31, 1899, and the overplus, if any, paid into the credit of the Receiver General.

PROVINCE OF ONTARIO.

| Name of Port. | Date of Proclama- tion. | Name of Harbour Master. | Date of Appoint- ment. | Amount from the fees of office salary not to exceed. | Amount collected in 1899. | Amount paid over to Receiver General. |
|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| Depôt Harbour Fort William French River Goderich Midland | June —, '98', July 7, '91 June 20, '93 April 28, '76 July 22, '82 Mar. 24, '83 Feb. 2, '77 May 12, '84 Jan. —, '98 Sept. 23, '75 | Andrew Lockerbie J. F. Pratt Thos. E. Oakley E. Borron, jun William Marlton John White Frank Strain Francis Densome. B. Guerard Frank E. Shepherd W. R. Fellowes. W. H. Johnston Robert McAdam | June 15, '98 May 21, '98 June 20, '93 May 8, '94 July 13, '97 April 26, '98 June 3, '81 May 21, '97 Jan. 15, '98 Dec. 17, '88 Oct. — '82 | 100 00 100 00 | \$ cts. 96 00 80 00 494 50 68 00 125 00 221 50 40 00 18 00 114 00 51 50 26 50 56 50 | \$ cts. |

PROVINCE OF QUEBEC.

| Amherst | Sept. | 14, | 78 | John Cassidy | Sept. | 2, | 78 | 200 | 00 | 12 | 50 | |
|----------------|-------|------|------------|-----------------------------------|-------|-------------|------------------|-----|----|-----|----------|-------------|
| Bersimis | July | 31, | '91 | Earl D. Chase | July | 31. | '91 | 200 | 00 | | | |
| Carleton | Dec. | 8, | '81 | Joseph E. Cullen | Mar. | 30, | '96 | 200 | 00 | | | |
| Chicoutimi | June | 17, | '85 | Ainsworth Sturton | June | 8, | '86 | | 00 | | . | l |
| Grand Entry | Feb. | 19, | '92 | Hugh Clarke | Dec. | 8, | '98 | 200 | 00 | | | |
| Gaspé | Sept. | 25, | '74 | Francis G. Eden | April | 3, | '89 | | 00 | | | . |
| House Harbour | Aug. | 9, | '97 | C. Lafrance | Dec. | 10, | '96 | 200 | | | | |
| Lachine | April | 19, | '80 | <u>.</u> <u>.</u> | | | | | | | | |
| Matane | Oct. | 19, | 77 | L. J. Levasseur | Dec. | 12, | '96 | 200 | 00 | 61 | 50 | |
| Métis | Feb. | 7, | 78 | J. H. Ferguson | Mar. | 10, | '96 | 200 | | 57 | 50 | |
| New Carlisle | | 25, | '89 | John C. Hall | Jan. | 17, | '95 | 200 | 00 | 6 | 00 | |
| New Richmond | April | 15, | '82 | Henry Leblanc | April | 3, | 82 | 200 | 00 | 39 | 50 | l . |
| Oak Bay | Mar. | 27, | '80 | Jas. D. Sowerby | Mar. | 22, | '80 | 200 | 00 | 22 | 00 | |
| Paspebiac | May | 12, | 777 | Hugh Christie | May | 22, | 77 | 150 | 00 | 22 | 50 | |
| Port Daniel | Mar. | 25, | '89 | J. Enright | Sept. | 11, | '90 | 200 | 00 | 5 | 00 | |
| Rimouski | .,, | 5. | '77 | A. P. St. Laurent | Mav | 13. | '96 _' | 200 | 00 | 17 | 50 | |
| Rivière Ouelle | July | 22, | '82 | | | | | 100 | 00 | | | |
| St. Thomas | Jan. | 2. | 746 | L Dionne | Oct. | 99 | 10.G | 200 | 00 | 71 | 00 | |
| St Johns | With | in t | hе | C H Farmer | Mon | ഹ | 207 | 500 | Δ0 | 637 | ΔΔ. | 137 00 |
| Stored | Harl | bour | of | Piomo Guavroment | M | 20, | 300 | 900 | | 280 | | |
| DOIGH (| Mon | trea | 1. | G. H. Farrar Pierre Guevremont | MALAY | <i>2</i> 0, | 30 | 300 | w | 200 | vo | |
| Trois Pistoles | Mar. | —. | '98 | Edouard T. Pettigrew | April | 11. | '99 | 100 | 00 | 36 | 00 | 1 |

TABLE showing the names of Ports proclaimed under the Dominion Acts, &c. - Con.

PROVINCE OF NEW BRUNSWICK.

| Name of Port. | Date of Proclamation. | Name of Harbour Master. | Date of Appoint- ment. | Amount from the fees of office salary not to exceed. | Amount collected in 1899. | Amount paid over to Receiver General. |
|-------------------------------------|---------------------------|-----------------------------------------|---------------------------------|------------------------------------------------------------|---------------------------|------------------------------------------|
| | | | 1 | \$ cts. | \$ cts. | \$ cts. |
| Alma Bathurst | 30, 73 | Gideon W. Parsons | May 2, '98 April 21, '96 | 100 00 200 00 | 30 50 48 00 | |
| Beaver Harbour | Sept. 22, '8 | E. W. Cross | | 100 00 | 9 50 | |
| | | H. Hutchinson | | 100 00 | 6 50 | |
| Campbellton | | A. J. Venner | | 200 00 | 109 50 | ¦ · · · · · · |
| Campobello | 30, 70 | John Tucker | Dec. 16, '92 May 7, '95 | | 1 00 31 00 | |
| Cape Tormentine | | Louis Poirier. | May 7, '95 April 17, '83 | | 6 50 | |
| Chatham | 30, 7 | R. J. Walls | 13, '98 | | 318 50 | 18 50 |
| Cocagne | 30. 7 | BH. Bourgeois. | Mar. 12 '97 | | | |
| Dalhousie | 30, 7 | BW, S. Smith | . 19, '88 | 200 00 | 209 00 | 8 92 |
| Dorchester | ,, 30, 7 | B F. C. Palmer | . A pril 15, '93 | 200 00 | 19 50 | |
| Fredericton | | 3 | | | | |
| Grand Manan, North | Sept. 18, 7 | James Pettis | May 21, '88 | | | |
| Grand Manan, South | Aug. 22, 8 | Abel Wilcox | | 100 00 | 3 60 | |
| Gull Rock Channel Great Shemogue | Jan. 14, '9 May 17, '7 | Wm. L. Kent | Jan. 14, '98 | 100 00 100 00 | Nil. | |
| Harvey | 30, 7 | Jas. E. Bishop. | June 22, '97 | | 53 50 | |
| Heron Channel | | Duncan Robertson | July 15, '97 | 200 00 | 44 00 | |
| Hillsborough, | May 30, '7 | 3lJohn O'Shaughnesay | April 13. '98 | 100 00 | 182 50 | 82 14 |
| Hopewell Cape | Aug. 25, 3 | IJohn H. Christopher | . June 26, '99 | 200 00 | 25 50 | |
| Ledge of St. Stephens | May 30, 7 | 3 W. McBean | .1 12, '94 | 100 00 | | |
| Letete, &c | | 3 Jacob Cook | Nov. 26, '97 | 100 00 | 1 00 | |
| Little Shippegan and | | 0.15 | | | ĺ | |
| _ Miscou Gully | | 6 Donald Harper | April 19, '86 | | | · · · · · • |
| Little Shemogue | Sept. 5, '8 | 8 Vacant | A | 100 00 | 0.50 | · • ··· |
| Moneton | May 30, '7 Mar. 26, '7 | 3 E. P. Cook | April II, 90 | 200 00 100 00 | 9 50 | |
| Musquash Newcastle | | 3 John Niven | July 7, 73 | 300 00 | 162 50 | · ·· ··• |
| North Joggins | 30 ' | વ | 1 | , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 102 00 | |
| Port Elgin and Baie Vert | | 3 R. Anderson | June 2, '9 | 200 00 | 20 00 | 1 |
| Pokemouche | July 7, '8 | 3 Alfred Blanchard | . Mar. 7, '9 | 100 00 | | 1 |
| Richibucto | May 30, " | 3 James Alexander Jardine | May 11, 7 | 200 00 | 51 00 | 1 |
| Rockland | . 30, " | 3 | | | | |
| Sackville | . 11 30, 7 | John A. Dowser | Aug. o, ye | | 1 | |
| St. Andrew's | | 3 John Wren | | | 89 00 | |
| St. George | | 3 Alexander Dick | | 4 100 00 4 100 00 | 12 00 13 00 | |
| St. Martin and Quaco Shediac | 14, " | 3 Alexander McOusen | 19, 7 | 6 300 00 | 79 00 | |
| Shippegan | . 30, | 73 Alexander McQueen 73 John DeGrace | Aug. 10, '8 | 0 100 00 | 6 50 | |
| Tracadie | 7. " | 4 Theodore Savoy | Sept. 23, '9 | | Nil. | |
| Waterside | Sept. 3. | 9 Wm. Riley Copp | 3. '8 | 9 100 00 | 1 | . |
| West Isles | Feb. 4, ' | 79 Thos. K. Parker | . Feb. 4, '7 | 9 200 00 | | · · · · |
| | P | ROVINCE OF NOVA SCO | OTIA. | 1 | | |
| | | | | | | |
| | | | | | | |

| Annapolis Apple River Arichat Baddeck Barrington Bayfield Bay St. Lawrence Bear River Beaver Harbour | Mar. Aug. April Sept. July April Sept. July | 12 '78 14, '86 22, '79 23, '79 10, '89 11, '79 21, '87 25, '7 24, '8 | Wm. Mills. John Lindgren Robt. Field C. P. Terrio Alex. McAulay B. Kenney. John McDonald C. Zwicker Wm. McFadden. Henry Hawboldt. | July Sept. Dec. July April Sept. | 7, '96 9, '90 10, '90 6, '93 11, '73 21, '82 27, '93 22, '83 | 3 200 0 200 0 200 0 100 0 3 200 0 200 0 7 200 0 7 100 0 8 100 0 | 70 00 14 50 20 50 0 17 00 Nil. Nil. 0 32 00 0 2 50 | |
|------------------------------------------------------------------------------------------------------|---------------------------------------------|----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------|--|
| | | | O Henry Hawboldt 3 Donald McKenzie | | | | | |

Table showing the names of Ports proclaimed under the Dominion Acts, &c.—Con.

PROVINCE OF NOVA SCOTIA-Continued.

| Name of Port. | Date of Proclamation. | Name of Harbour Master. | Date of Appoint- ment. | Amount from the fees of office salary not to exceed. | Amount collected in 1899. | Amount paid over to Receiver General. |
|---------------------------------------------|-----------------------|---------------------------------------------|---------------------------------|------------------------------------------------------|---------------------------|------------------------------------------|
| l I | | | | \$ cts. | \$ cts. | \$ cts. |
| Bourgeoise River | May 1, '86 | E. C. Bouchie | April 19, '86 | 100 00 | 3 00 | |
| Bridgewater | 6, 74 | William Oakes | Jan. 28, '96 | 100 00 | 89 00 | |
| Bras d'Or, including New Campbelltou | 6, '74 | Wm. Livingstone | Feb. 13, '94 | 200 00 | 11 00 | |
| Cape Canso | June 6, '76 | William A. H. Oliver | Mar. 2, '99 | 100 00 | 113 00 | 13 00 |
| Cape Negro or North East Harbour | | A. D. Perry | May 18, '81 | 200 00 | 15 00 | |
| Chester | Sept. 8, '83 | A. C. Corkum | July 8, '96 | 100 00 | | • |
| Clark's Harbour | April 20, 76 | Fulgence Aucoin | April 15, '76 June 1, '81 | 100 00 200 00 | 5 50 | |
| Clementsport | May 1, '77 | J. M. LeCain. | | | | |
| County Line to Grand | l I | W. comt | | | | |
| Narrows Crow Harbour | Sept. 30, '88 | Vacant | Aug. 30. '97 | 100 00 | | |
| D'Escousse | Jan. 23, '8 | Arthur Pertus | March 6, '90 | 100 00 | 26 50 | |
| Digby | Feb. 19, 78 | SIsrael Hersey | May 23, '97 | 200 00 100 00 | 50 50 | |
| Fourchu | May 22, '8 | Neil MacLean | . May 22, '89 | 100 00 | 1 00 | |
| Gaberouse | March 3, '79 | John Wm. Hardy | Nov. 2, '86 | 100 00 | 2 00 | |
| Glasgow and Cape Bre | Oct 30 '8 | Angus McQuarrie | Oct. 30, '80 | 300 00 | 59 00 | |
| Guysborough | . Jan. 15, '8' | Thos. O'Connor | . 31, '93 | | 9 00 | |
| Halifax | . No procla | - | | } | | |
| | mation re | | | | | |
| | Act | J. E. Butler | Sept. 21, '93 | 1,800 00 | | |
| Hantsport | June 27, '8 | 4 Edward Davison | June 7, '84 Mar. 24, '81 | 200 00 | 199 50 | • • • • • |
| " South ". | Oct. 9, '8 | 4 John J. Donovan | Dec. 26, '98 | | | |
| International Pier, Syd | l-) | 1 | | | 207 00 | 05 00 |
| ney Isaac's Harbour | | 0 Michael J. Neville 9 Andrew J. Blakely | | 300 00 | 335 00 | 35 00 |
| Jeddore | Sept. 20, '9 | 0 Wm. Jennox | Sept. 20, '90 | 100 00 | 9 50 | |
| Jordan Bay | .lOct. 25. '7 | 6 M. D. McKenzie | .:Oct. 25, '70 | 51 150 OC | 12 00 | , |
| Kelly Cove | . Feb. —, '9 | 9 Jos. B. Huskins 5 George Henry Zwicker | Feb. 17, '99 | 9 100 00 5 300 00 | 24 50 | |
| L'Ardoise Unper and | d) . | | 1 | | 21.00 | 1 |
| Lower | Aug. 22, '8 | 4 George Burke | . Aug. 20, '84 | 100 00 | 1 00 | 3 |
| Lingan | May 18 '8 | 1 Thomas Laffin | Aug. 9, 8 | | 40 00 | |
| Little Bras d'Or Lak | e | | 12-mg. 17 | | | 1 |
| between McKay' | | | | | | l |
| Point and Grand Narrows | April 25, '8 | 4 Daniel Campbell | April 17, '9 | 9 100 00 | | |
| Little Bras d'Or Lak | ce _ | • | 1 | | | |
| from McKay's Point t Washadebuck Rivers. | | Alex. J. McNeil | 25, 8 | 4 100 00 | i | |
| Little Glace Bay | | 4 E. Douglas Rigby | | 4 200 00 | | |
| Little Narrows and Crai | n- | | | 7 100 00 | 0.00 | |
| berry Point Liverpool | | 33 K. McLennan | | | | |
| Lockeport | May 18, | 31 E. A. Capstick | . May 18, '8 | 1 200 00 | 35 00 | 1 |
| Louisburg | Mar. 17, | 79 H. C. V. Lavatte | Oct. 13, '9 | | | |
| Lunenburg | | 75 John Loye 80 Finlay Rankin | | | | |
| Mahone Bay | May 16. | 87 Lewis Knaut | Feb. 3, '9 | 8 200 00 | 32 00 | |
| McNair's Cove | Mar. 12, | 75 Ronald McEachen | Mar. 8, 7 | | | |
| Main à Dieu | | 85 Vacant | | | ' | |
| Marble Mountain | . 26. | 92 D. McDonald | 26. 3 | 2 200 00 | | |
| Margaretsville | Mar. 26, | 78 Robert Early | Mar. 26, 7 | 78 100 00 |) ' | • • • • • • • • |

63 VICTORIA, A. 1900

TABLE showing the names of Ports proclaimed under the Dominion Acts, &c.--Con.

PROVINCE OF NOVA SCOTIA-Concluded.

| Name of Port. | Proc | ate of clams | 3- | Name of Harbour Master. | App | ate of wint- ent. | Amount from the fees of office salary not to exceed. | Amount collected in 1899. | Amount paid over to Receiver General. |
|-----------------------------------------------------------------|----------------------------|------------------------------|---------------------------------|---------------------------------------------------------------------|----------------------------|---------------------------------------------------|------------------------------------------------------|---------------------------|------------------------------------------|
| | | | | | | | \$ cts. | \$ cts. | \$ cts. |
| Margaree | June Jan. April | 12, —, —, 26. | '86 '95 '96 '78 | Nicholas Deagle John Davis S. Wynacht D. McGregor | April Mar | 7, '75 27, '93 23, '95 1, '96 22, '93 | 100 00 100 00 100 00 100 00 100 00 | 41 50 | |
| Meteghan Harbour Meteghan River Musquodoboit | | 8, 10, 19, 9, 9, | '97 '88 '82 '83 '83 | B. F. Robicheau L. A. Comeau David Williams H. A. McLeod. A. Hayman | June May Aug. May | 8, '97 1, '97 19, '82 17, '89 28, '83 | 100 00 100 00 100 00 100 00 100 00 | 10 50 8 50 9 00 | |
| Northport North-west Cove, Cole- man's Cove and Aspo- | " | 27, | '82 | John M. Burns | June | 27, 82 | 100 00 | 40 50 | |
| togan Harbour Parrsborough Petit de Grat | Oct. June | 22. 5. | 73 95 | S. Boudrot. | Oct. | 30, '92 22, '73 5, '95 | 200 00 300 00 200 00 | 159 50 4 50 | |
| Petite Rivière Bridge Plaster Harbour Port George Port Greville | May | 6, | 74 | John Nelson Parks Vacant. Charles B. Weaver. Wm. Cochrane | May | 27, '88 1, '77 26, '98 | 100 00 150 00 200 00 | 38 50 | |
| Port Hawkesbury. Port Hood Port la Tour | July Apr. | | 75 75 81 | Janiel Henesey John Murphy, jun Wm. Sholds | July Feb. | 9, '75 9, '75 | 200 00 200 00 200 00 | 97 50 | |
| Port Lorne | Mar. May | 27, 26, 3, | '86 '85 '79 | Freeman Beardsley | June Dec. Mar | 9, '97 10, '96 3, '79 | 200 00 200 00 400 00 | 2 50 1 50 1 50 | |
| Pubnico | June Sept. | 27, | '79 | David Murphy S. Manthorn D. Q. Amireau C. T. De Wolfe. | Feb. | 12, '92 2, '99 27, '82 | 200 00 100 00 | 17 50 12 50 50 00 | |
| Pugwash | Sept. Mar. | 22, 26, 26, | '84 | J. B. Ritcey H. Campbell. | Apr. | 6, '95 21, '96 11, '91 | 100 00 100 00 100 00 | 74 00 29 00 0 50 | |
| che's Cove | Apr. May | 20, 18, 24, | '81 '81 | Vacant | Dec. Sept. | 17, '83 | 200 00 | 16 50 80 50 | |
| Sambro | May Aug. | 14, 27, | 74 | Ben Smith H. Hall John C. Morrison | Apr. May | 27, '90 13, '98 4, '97 | 200 00 200 00 200 00 | 11 00 161 00 | |
| Ship Harbour. Smith's Mountain, St Ann's Spencer's Island | ., | 2, 8, 22, | '83 | Geo. E. Fader | Apr. | 2, '84 11, '98 22, '99 | 100 00 | | |
| TatamagoucheTidnish Torbay and Whitehaven | Feb. July | 27, 5, 18. | '78 '82 '81 | W. McKenzie | Mar. June Dec. | 29, '93 30, '84 10, '97 | 200 00 100 00 | Nil. 25 00 34 50 | |
| Tusket. Tusket Wedge Victoria Pier, South Bar, | Mar. Dec. | 18, 19, | '75 '99 | Charles W. Hatfield Hilaire LeBlanc | Mar. Dec. | 7, '87 19, '99 | 100 00 100 00 | | : |
| Sydney | | 22, 20, | '73 '90 | Ernest Richardson Jas. D. Patton A. B. Poirier John McInnes | Nov. Feb. Oct. | 14, '96 7, '96 | 100 00 | 5 00 18 50 | |
| West Bay West Port. Weymouth Whycocomagh | May Mar. May Oct. | 8, | '87 '94 | Geo. Welsh R. Payson Neil McKinnon | Jan. May Oct. | | 200 00 200 00 | 39 50 29 00 | |
| Wood's HarbourYarmouth | Feb. | 19, | '92 | S. K. Woods. Ebenezer Scott. | July Oct. | 19, '92 19, '77 | 200 00 | 8 50 | |

Table showing the names of Ports proclaimed under the Dominion Acts, &c.—Con.

PROVINCE OF PRINCE EDWARD ISLAND.

| | Proci | of lama on. | 3- | Name of Harbour Master. | Apj | Oate of point- ient. | Amount from fees of office sall not to exceed. | Amount collected 1899. | Amount paid over t Receiver General |
|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|----------------------------------------|----------------------------------------------|--------------------------------------------------------------------------------------------------|---------------------------------------|-------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------|----------------------------------------|
| Bay Fortune Brudenell | Apr. July May July May | 10, 25, 23, 2, | 75 '85 '84 '78 | John McKay John R. Coffin Vacant Vacant Hercules McDonald D. Stewart. | Apr. July May | 29, '78 | 200 00 200 00 100 00 | \$ cts. 7 50 | \$ ets |
| Cove Head Charlottetown and Hills- boro River. Crapaud Egmont Georgetown. Grand River Grand River, down to and including Poplar | July " " April | 15, 15, 15, 15, | '74 '74 '74 '74 '74 | James D. McMillan David Small Wesley Myers George Bollum Samuel Hemphill. Wm. Chas. Jenkins | Feb. June Nov. | 15, '80 | 100 00 400 00 200 00 200 00 | 128 00 6 00 Nil. 29 00 | |
| Point and Chapel Wharf Malpeque. Miminegash Montague Bridge Murray Harbour Murray River New London Pinette. | May July April April June May | 17, 16, | '80 '97 '74 '78 '74 | Vacant. J. Champion Jno. McCormick Welton Porter Wm. Miller Geo. McLeod. Wm. Bell Deniel McAnley | Dec. May April June Feb. | 1, '99 7, '97 17, '74 9, '97 | 100 00 200 00 200 00 200 00 200 00 | 25 00 14 50 6 00 1 00 | |
| Port Hill Pownal Rollo Bay Rustico St. Peter's Bay Souris East and West Summerside | April May April July | 15, 10, 10, 17, 10, 10, | 74 79 75 75 75 75 75 75 | W. C. Brown. Michael Haley. Vacant Felix Buote Albert Anderson. Wm. McDonald. Wm. Stymest. | June Mar. Oct. Sept. Oct. | 18, 97 20, '98 30, '97 1, '97 16, '98 21, '99 20, '97 | 200 00 100 00 200 00 200 00 200 00 200 00 200 00 | Nil. 1 50 18 00 59 00 | |
| Tignish Tracadie. Tryon Vernon River Bridge West River Wood Island | May April | 17, 12, 19. | 75 77 74 | Vacant Donald Campbell Vacant John Finlay Vacant. James Young | Aug. | 27, '95 | 200 00 | Nil. 1 00 | |
| | i i | | VI | NCE OF BRITISH COLU | MBIA | A. | 1 | | 1 |
| Chemains | April | | '96 | Lewis G. Hill | April | l 25, '96 | 200 00 | 104 50 | |
| Venceuven including | April | 11, | "" | Harry Cooper. P. T. Powers. Vacant. Malcolm McLeod C. E. Clarke. | | | 300 00 | | |

F. GOURDEAU, Deputy Minister of Marine and Fisheries.

APPENDIX No. 47.

37 ATEMENT showing the results of certain returns respecting Shipping and Discharging of Seamen, received by the Department of Marine and Fisheries, in accordance with the provisions of Chapter 74, Consolidated Statutes of Canada, from Shipping Masters throughout the Dominion, for the half-years ended 30 June and 31 December, 1899.

Nore. -Names printed in italics are Shipping Masters appointed under the Act, the others the Collectors of Customs who act as Shipping Masters.

QUEBEC.

| Shipping Master Seamen Seamen Seamen Seamen Discrete Shipped Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged Charged | County. County. Bonaventure Gaspé Moniteal | of | TOT. | June 30, 1899. | nded 9. | For Dece | For half-year ended December 31, 1899. | nded 899. | Total | Total | Total |
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STATEMENT showing returns respecting shipping and discharging Seamen, &c.—Continued.

NOVA SCOTIA-Concluded.

| Name of Port. | Name | Name | For Ha | For Half-year ended June 30, 1899. | ed June | For Half | For Half year ended December 31, 1899. | December | Total | Total Seamen | Total |
|--------------------|--------------------------|-------------------|--------------------|---------------------------------------|----------|--------------------|-------------------------------------------|----------|----------|-----------------|----------|
| | ot County. | Shipping Master. | Seamen Shipped. | Seamen Dis- charged. | Amount. | Seamen Shipped. | Seamen Dis- charged. | Amount. | Shipped. | charged. | Aniount. |
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| oss s d'Or. | Cape Breton | | | | | | | | | | : : |
| Halifax | Guysborougn Halifax | H. Bligh | 1,493 | 1,150 | 1,031 30 | 1,333 | 1,225 | 1,034 00 | 2,826 | 2,375 | 2,125 50 |
| Hantsport | Hants | _ | 38 | 2 21 | 우 값 | : | : | : | 88 | % | 25 40 |
| Harbourville | Antigonism. King's | Chas. E. Morris. | | | | | | | | | |
| Isaac Harbour | Guysborough | J. D. Griffin | : | : | | | | | : | : | |
| : | Cumberland | J. Moffat. | : | | ::: | | : | | : | : | |
| Jordan Day | Shelburne Cane Breton | Matthew Roche | | | | | | | | | |
| Little Bras d'Or. | Cape Breton | P. Collins | | | | | | | | | |
| Liseomb | Guysborough | James Hemlow | : | | | | : | | : | | |
| Liverpool | Queen's. | I. J. V. Dexter | 106 | 20 | 98 | 3 | 92° | 43.30 | 591 | 106 | 116 30 |
| Lockeport | Shelburne | J. R. Ruggles. | 218 | 04 | 121 00 | £ | <u>c</u> | | 202 | C T | 141 50 |
| Londonderry | Colonester | Transfer Tomic | : | | | | : | : | | : | : |
| Louisbourg | Lunenburg | Alfred G. Heisler | 420 | 385 | 325 50 | . <u> </u> | 281 | 249 80 | 751 | 992 | 575 30 |
| Mahone Bay | Lunenburg | A. F. Zwicker | | :: | | : | | | | : | |
| Main à Dieu | Cape Breton | R. McDougall | : | | | : | : | : | : | : | : |
| Maitland | Hants | Alex. Roy | - | | 3 | : | : | | - | : : | 8 |
| Margaretaville | Annanolis | D W Landers | | | | | | | | | |
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| ; | Digby | E. U. Doucet. | 52 | 54 | 34 70 | 47 | 35 | 34 00 | 102 | 29 | |
| : | Shelburne | G. B. Swaine | 4 | : | 2 00 | 12 | = | န | 91 | = | 11 30 |
| North Sydney | Cape Breton | James Armstrong | 88 | 77 | 48 70 | 117 | * | 25 26 | 197 | 108 | |
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| Picton | Picton | | 47 | က | 24 40 | - | 12 | 28 10 | 95 | 15 | |
| Acadıa | Digity | A. Bourneuf | : | : | : | : | : | : | : | : | : |
| Fort Caledonia and | e c | 1 7 | | | | | | | | - | |
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| Port Creville | Cumberland | Temes Kerr | | | | | : | : | | : | |
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| Port Hood | - | E. D. Tremain J. W. Taylor. | : : | | | | | | | | |
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| Fort Medway | | W. Graves E. E. Leston | : : : : : : : : | | | | | | | | |
| 9 Port Mulgrave | | M. J. Keating | 12 | | 8 40 | 1.5 | 13 | 11 40 | 27 | 21 | 19 80 |
| Pubnico | | | | : : | | · · | | | | | |
| Ritcey's Cove. | | J. Wilson. E. G. Seaboyer | | | | 106 | . 16 | : & : & : & : . | 106 | 91 | 80 30 |
| River Hebert. | Cumberland | A. W. Pugsley. D. McAulev | 83 | - | 11 80 | 8 8 | 53 | 6 6 96 | 16 | 72 | 0. 10 |
| St. Mary's River | Guysborough | - 63 | | | | | | | | | |
| Salmon Biver | Dighy | Donald Urquhart | : | : | : | : | : | : | : | : | : |
| | | M. McFarlane | | | | | | | | | |
| Shelburne | Shelburne | W. W. Atwood | 22.5 | 23 | 98 98 98 | 8 | 55 | 16 00 | 92 | 12 | 46 10 |
| Sydney Victoria Pier | Cape Breton | James Kudderham | ફ | 9 | 98 77 77 | 179 | 131 | £ 83 | clz | 147 | 09 110 |
| Thorne's Cove | Annapolis | E. H. Porter. | | | | | - | 3 70 | . | - | 3.70 |
| Truro | Colchester | George P. Nelson | : | | | : | - : | | | : | : |
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| West Arichat. | | _ | : | : | | | : | : | | | : |
| Weymouth | | N. B. Jones | | | | | | | | | |
| Windsor | | H. W. Dimock | : | | | | | | | | |
| Wilmot. | Annapolis | G. B. Reed | : | : : : : : : : : : : : : : : : : : : : : | : | ::::::::::::::::::::::::::::::::::::::: | | : | : | : | |
| Yarmouth. | Yarmouth | J. B. Davidson N. L. Trefry | 582 | 637 | 483 10 | 675 | 675 | 240 00 | 1,259 | 1,312 | 1,023 10 |
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| | : | | PRINCE | PRINCE EDWARD ISLAND | ISLAND | | | | | | |
| Alberton | Prince | I P Rennan | | | | | | | | | |
| Cascumpec | | 903 | | | - | | | | | | |
| Charlottetown | Queen's | | : | : | | : | : | : | | | |
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| | Prince | | 2 | | 3 | • | c | R F | - er | o | |
| Montague Bridge | King's | J. M. Aitken | | | | | | · : | | | |
| Murray Harbour | | | : | : | : | <u>·</u> | : | : | ::::::::::::::::::::::::::::::::::::::: | : | : |
| Function Port Hill | Vueen 8 | H. D. Morrison | : | : | | : | : | : | : | : | : : : : : : : : : : : : : : : : : : : : |
| St. Peter's Bay | | J. A. McLaine | | | | | : | | | | |
| Souris | King's | Michael J. Foley | : | | : | : | : | | - | | |
| Summerside | Frince | Jos. Keed | : | : | : | | ο ι | 8 8 8 | ٧. | 67 | გ გ |
| Tignish | Frince | George Conroy | : | · · · · · | : | · · · · | : | : | : | : | |
| | • | A STATE OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PAR | - | _ | - | - | - | | | _ | CONTRACTOR OF STREET |

STATEMENT showing returns respecting shipping and discharging Seamen, &c. -Concluded.

BRITISH COLUMBIA.

| I | Dis- Amount. | & cts. | | 189 122 70 | | 982 896 95 | ₹ |
|-------------------------------------------|----------------------------|---------|-----------------------------|------------------------------|-------------------------------|--------------|-------------|
| Total | Shipped. | | | 132 | | 1,021 | car't |
| December | Amount. | e cts. | | 90 68 | | 479 75 | |
| For Half-year ended December 31, 1899. | Seamen Dis- charged. | | | | 24 | 458 | 100 |
| For Half-y | Seamen Shipped. | | | | 16 | 501 | 705 |
| d June | Amount. | es ots. | • | 83 70 | 6 90 73 69 | 417 28 | 2) 20# |
| For Half year ended June 30, 1899. | Seamen Dis- charged. | | | .g. | en | 524 | ť |
| For Ha | Seamen Shipped. | | | . . | 12 | 520 | er |
| Name | Shipping Master. | | C. R. McDougall John Grice. | T. A. J. Brabant W. J. Feker | Peter Grant | D. McPhaiden | A. G. Lewis |
| Name | County. | | Nayoquot Nayoquot | Vancouve Vanaimo | New West | Vew West | v ictorità |
| 70 97 222 2 | Name of Lore | | Ahouset | HesquaitKynquot | New Westminster. Ucluclet. | Vancouver. | |

APPENDIX No. 48.

List of Certificates of Competency granted to Masters and Mates of Foreign Seagoing Vessels, during the year ended June 30, 1899.

| Number of Certificate. | Da O Certi | f | Name. | Grade. | Address. | Where Examination was passed. | Fee. |
|---------------------------|------------------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------|-------------------------------------|---------|
| | 189 | 98. | | | | | \$ cts. |
| 3322 | Aug. | 11 | David Lougher | Master | Varmouth N.S | Halifax, N.S. | 15 00 |
| 3323 | " | 23 | Alvin K. Webb | | Halifax N.S. | " | 15 00 |
| | Sept. | 22 | Chas. Hayward. | Mate | | | 8 00 |
| 3325 | 11 | 27 | John Carlson | | Mahone Bay, N.S. | St. John, N. B. | 8 00 |
| 3326 | 11 | 27 | Edmund J. Spicer | Master | Parraboro, N.B | " | 15 00 |
| 3327 | ** | 27 | John Carlson Edmund J. Spicer John Alfred Ridley | 2nd Mate | St. John, N.B. | | 8 00 |
| 3328 | ** | 29 | Sydney Pearson | Mate | Vancouver, B.C | Victoria, B.C. | 8 00 |
| | Nov. | | Daniel Malman | Master. | Hillsboro, N.B. | St. John, N. B. | 15 00 |
| 3330 | " | 3 | James McGrath | Mate | Parrsboro, N.B. | | |
| 3331 | 11 | 3 | Angus McEachren Alfred S. Wilkins | Magter | Chatham N B | | 15 00 |
| 3332 | | 21 | Alfred S. Wilking | | Ken nt NS | Halifax, N. S. | 15 00 |
| 3333 | | 6 | Edgar O. Smith | | Barrington NS | Yarmouth, NS | |
| 3334 | 11 | 6 | Edgar O. Smith Frederic R. Currier | , | Yarmouth NS | | 15 00 |
| 3335 | 11 | 16 | Alonzo Hunter | Mate | Windsor N.S | Halifax, N. S. | 8 00 |
| 3336 | 11 | 27 | Duncan E. Morris | 2nd Mate | Advocate Harbor N.S. | St. John N. B | 8 00 |
| 3337 | | 27 | Angus J. MacDonald. | | Pinnette P.E. Island | | 8 00 |
| 3338 | | 7 | Angus J. MacDonald Norman E. Smith | | Yarmouth, N.S | Yarmouth, NS | 8 00 |
| 3339 | " | 7. | Joseph U. Blakeney | Master. | Dartmouth N S | Halifax, N. S. | 15 00 |
| 3340 | ** | 7 | Knowlton Marsters | 0 | Burlington NS | | 15 00 |
| 3341 | 11 | 16 | Ernest Kinney | ,, ,,,,, | Varmouth NS | " | 15 00 |
| 3342 | Mar. | 22. | Ernest Kinney Horace McCully | 2nd Mate | Magutown NS | ,, | 8 00 |
| 3343 | " | 22 | John Chas Shaw | | Main à Dieu C. B. N.S. | " | |
| 3344 | 11 | 10. | John Chas. Shaw | Mate | Port Lorne N.S. | Yamnouth NS | |
| 3345 | " | 19 | Arnold Hotson | 2nd Mate | Vancouver B C | Victoria, B.C. | 8 00 |
| 3346 | ** | 27 | B. H. Morehouse. | | Sandy Cove N S | St. John, N.B. | |
| 3347 | 11 | 27 | John A. C. Carlsson | Master | St. John, N.B | " ; | 15 00 |
| 3348 | Mav | 4 | Arthur G. Morris | " | Mid. Musquodoboit, N.S. | Halifax, N. S. | 15 00 |
| 3349 | " | 5 | Laurent Vigneault | Mate limit. | House Harbour M I | Quebec. | 8 00 |
| | | | - Sandaring Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control o | ed to F & | riodse riarbour, m.r | 1000000 | |
| 1 | | | | A vessels. | | | |
| 3350 | ** | 5 | André Simard | Mate | Quebec | Quebec | 8 00 |
| 3351 | June | 1 | Andrew Sproul | 2nd Mate | Castruse Ireland | Victoria, B.C. | 8 00 |
| 3352 | - 11 | 8 | Edward Holland | Master. | Louisburg C.B. N.S. | Halifax, N. S. | |
| 3353 | 11 | 14 | Matthew John Davis | Mate | Clifton, N.S. | | 8 00 |
| 3354 | ** | 14 | James U. McPherson | 2nd Mate | Port Daniel, Que | , | 8 00 |
| 3355 | 11 | 14 | John Kov Andrews | | Hanterout N G | 1 1 | 8 00 |
| 3356 | ., | 96 | Russell S. Ramsay | 11 | Malpeque, P.E.I | la 1 37 - 1 | 8 00 |

List of Certificates of Competency granted to Masters and Mates of Inland and Coasting Vessels, during the year ended June 30, 1899.

| Number of Certificate. | Da of Certif | : | Name. | Grade. | Address. | Where Examination was passed. | Fee. |
|---------------------------|--------------------|-------------------|-------------------------------------------------------|----------------|-------------------------------------------------|-------------------------------------|----------------|
| | 189 | 8. | | | | | \$ cts. |
| 2464 | July | 6 | Chas. Haggblom | Master | Blenheim, Ont | St. Catharines. | 15 00 |
| 2465 | | 7 | C. J. Stwartman | " | Waubaushene, Ont | Halifax | 15 00 15 00 |
| 2466 2467 | l . | | Jas. Allan McDonald Thomas Wilson | | Georgetown, P.E.I Vancouver, B.C | New Westmin- | 15 00 |
| 2101 | " | • • • | Thomas Wilson | " | vimocaver, p.o | ster. | 20 00 |
| 2468 | | | Fenwick Hatt | | Liverpool, N.S | Halifax | |
| 2469 | | 11 | Philip J. Campbell | " | Cardigan, P.E.I Alport Farm, Brace- | " | 15 00 |
| 2470 | " | 11 | Frank Beaumont | " | bridge, P.O., Muskoka, | | |
| | | | | İ | Ont | St. Catharines. | 15 00 |
| 2471 | " | | Abel E. Wade | | Grenville, Que | Ottawa | 15 00 |
| 2472 2473 | " | 11 | Wm. Thomas Jones | " | Gravenhurst, Ont Sydney, C.B., N.S | St. Catharines. Sydney | 15 00 15 00 |
| 2473 | | | James H. Nicholson | | Belleville, Ont | Kingston | 15 00 |
| 2475 | | 11 | George Murdoch | | Sherbrooke, N.S | Halifax | 15 00 |
| 2476 | ·i | | Edwd. C. Robinson | " | Goderich, Ont | St. Catharines. | 15 00 |
| $\frac{2477}{2478}$ | | | Loran A. Kenney | | Shag Harbour, N.S Dartmouth, N.S | Yarmouth Halifax | 15 00 15 00 |
| 2479 | | 20 | Ernest S. Daniels. | Mate | Victoria, B.C. | Victoria | 6 00 |
| 2480 | | 20 | Louis Trudeau | Master | Montreal, Que | Ottawa | |
| 2481 | .1 | 18 | Wm. Allard | " | Carleton, P.Q | Dalhousie | 15 00 |
| 2482 2483 | | 18 29 | | Moto | Picton, Ont. | Kingston | 15 00 6 00 |
| | Aug. | 3 | | Master | Ladner, B.C | New Westmin- | 0 00 |
| | 1.2.08. | • | | 2.24.700211111 | | ster | 15 00 |
| 2485 | | 3 | | | | g, g", | 15 00 |
| 2486 | • 1 | Ş., | | | Kingsville, Ont | | 15 00 15 00 |
| 2487 2488 | | 4 | Edwd. Willcox | | Quebec, P.Q Pointe aux Bouleaux, | | 15 00 |
| 2100 | 1 " | | | | P.Q | | 15 00 |
| 2489 | | | David G. Kurtz | | Nelson, B.C | Nelson | 15 00 |
| 2490 | | 6 | Henry Perrault | 11 | Parry Harbour, Ont Brewers Mills, P.O., Ont. | St. Catharines. | 15 00 15 00 |
| 249: 249: | | G | Wm. McKenna Robt. Harmon | J | Lindsay Ont | 1 | 15 00 |
| 249 | | 10. | . Geo. Hy. Stephens | . Mate | sydney, C.B., N.S | syaney | 6 00 |
| 249 | | 10. | Wm. James Murdoch | Master | Sherbrooke, N.S | Halifax | 15 00 |
| 249 | a i | 10. | Robt. Geo. Evans | Mate | New Westminster, B.C. | Victoria | 6 00 |
| 2490 2490 | | 11 | John Power | Manton | French River Ont | St Catharinas | 15 O |
| 2498 | | 11. | Robt. C. Graham Alfred H. Bickmore Win. Hetherington | " | Enterville, N.S | Yarmouth | 15 00 |
| 249 | | 11. | Alfred H. Bickmore | . " | Alport, Ont | St. Catharines | 15 00 |
| 250 | • | 13. | Wm. Hetherington | " | Little Glace Bay, C.B. | | 15 00 |
| 250 | 1 " | 18. | Henry E. Petrie | · " ····· | N.S | | 15 00 |
| 250 | 2 | 18. | Richard Hynes | . , ,,,,, | Codroy, Newfoundland. | . " | 15 00 |
| 250 | | 18. | Richard Hynes | Mate | Baie St. Paul, P.Q | Quebec | 6 00 |
| 250 | - 1 | 18. | Richard F. Martell | . Master | Valleyfold Oue | Ottown | 15 00 |
| $\frac{250}{250}$ | | 22 | Hans George Schon | " " | Victoria, B.C. | Victoria | 15 00 |
| 250 | | 22. | Horace Sicotte. Hans George Schon. Ludger Portelance. | . Mate | Ottawa, Ont | . Ottawa | 6 00 |
| 250 | | 22. | Uriah H. Lyons | . Master | Barrington, N.S | Halifax. | 15 0 |
| 250 251 | | 23. | Oliver H. P. Rogers | | New Westminster, B.C. Brewer's Mills, Ont | . N. Westm'ster | 15 00 15 00 |
| 251 251 | 0 '' 1 Sept | . 24. . 22. | | Mate | Harbourville, N.S. | Sydney | 6 0 |
| 251 | | 22. | . Zéphir Dénault | . 11 | Beauharnois, P.Q. | St. Catharines | 6 0 |
| 251 | 3 " | 22. | . Jason Huckabone | | Pembroke, Ont | . Kingston | 6 0 |
| 251 | ~ ∣ | 22. | Jason Huckabone Frank Spinner Carter | Master | New Westminster, B.C. | . N. Westm'ster | 15 0 |
| 251 251 | | $\frac{22}{22}$ | . Sam. Geo. Morumer | . Mate | Cornwall, Ont | · Victoria | 6 0 15 0 |
| $\frac{251}{251}$ | | $\frac{22}{22}$. | Hypolite Lacouline | | St. Charles de Limoulin | اءا | 1 |
| | ` " | | | 1 | P.O | Quebec. | 15 0 |
| 51 | | 22. | James W. Cates | Mate | . Victoria, B.C | . Victoria | 6 0 |
| 251 | 9 ,, | 22. | . Hans Blackstad | viaster | Pictou, N.S. | . 11 | . 15 0 |

List of Certificates of Competency granted to Masters and Mates of Inland and Coasting Vessels, &c.—Continued.

| Number of Certificate. | Da or Certif | f | Name. | Grade. | Address. | Where Examination was rassed. | Fees. |
|---------------------------|--------------------|-------------------|--------------------------------------|---------------|----------------------------------------|-------------------------------------|----------------|
| | 189 | 98. | | ! | | | \$ ets. |
| 2521 | Sept. | 22 | Chas. Johnson | Mate | Nakusp. B.C. | Victoria | 6 00 |
| 2522 2523 | 11 | 22 22 | David Petro Irene Yergean | Master | | Kingston | 15 00 |
| 2020 |] " | | Liene I ergeman | | ville, P.Q | Quebec | |
| 2524 | | 22 | Ernest J. Martell | | Main-à-Dieu, N.S | Sydney | |
| 2525 | | 22 | A. LeB. Peatman | | St. John, N.B | St. John | 15 00 |
| 2526 | . 1 | 22 | Elzear Tremblay | " | Murray Bay, P.Q | Quebec | 15 00 |
| 2527 | . ! | 27 | Henry Whitfield Colwell | Mata | St. John, N.B | St. John St. John | 15 00 |
| 2528 2529 | , I | 27 | Odber R. Farrell | Mate | | | 6 00 15 00 |
| 2530 | | $\frac{27}{27}$. | Eugene Fortin | | Windsor, N.S Lévis, Que | Quebec | |
| 2531 | | | John D. Williams | Mate | Canso, N.S | Sydney | 6 00 |
| | Oct. | 7 | James Achd. Johnston | Master | Young's Cove, Ont | Kingston | |
| 2533 | ٠, | 10 | Wm. Henry Elder | " | Gravenhurst, Ont | St. Catharines. | 15 00 |
| 2534 | | 11 | Elijah B. Rumley | | Lions Head, Ont | | 15 00 |
| 2535 | | 11 | Wm. John Cole | Mate | Manitowaning, Ont | | |
| 2536 | · { | 14 | Fred'k D. Forrest | Master | | 37 " | 15 60 |
| $\frac{2537}{2538}$ | ri. | | Stephen C. Court | Mate | Victoria, B.C | Victoria | 6 00 |
| $\frac{2000}{2539}$ | d | 19 | Robt. Bailey J. Cloude Butterfield | Master | Vancouver, B.C Port Moody, B.C | 11 | 15 00 15 00 |
| $\frac{2530}{2540}$ | | 19 | John L. Souter | | Arrowhead, B.C | | 15 00 |
| 2541 | | | A. T. Corb tt | " | Bracebridge, Ont. | | |
| 2542 | | | Alex. P. Larson | Mate | Gravenhurst, Ont. | | 6 00 |
| 2543 | | 27 | James D. Varcoe | Master | Lindsay, Ont | Ottawa | 15 00 |
| 2544 | | 27 | Stratford T. Eyre | " | Windsor, Ont | St. Catharines. | 15 60 |
| 2545 | | 28 | Edward Winter | " | " | " | 15 00 |
| 2546 | | | Albert Defoe | | Bobcaygeon, Ont | | |
| 2547 | ı f | | John E. Peterson | 11 | Windsor, N.S. | Yarmouth | 15 00 |
| 2548 2549 | .1 | 16 | | | Isaac's Harbour, N.S | Sydney | 15 00 |
| 2550 | | 16 16 | | 11 | Advocate Harbour, N.S. Toronto, Ont | St. Catharines. | |
| 2551 | | | Olof Westerland | | Vancouver, B.C | | |
| 2552 | | 16. | | | Victoria, B.C | | 15 00 |
| 2553 | | 17 | | | Burritt's Rapids, Ont | | |
| 2554 | | 21 | Silas H. Ormiston | | | Sydney | 15 00 |
| 2555 | | 30. | Maynard Fielden | Mate | | | 6 00 |
| 2556 | | 30 | Seraphin Marinville | | Champlain, Que | Quebec | 15 00 |
| 2557 | | 3 | Donald Sinclair. | Mate | Rat Portage, Ont | | 6 00 |
| 2558 2559 | | 5 5 | Dan. Wm. Crow | Master | Chatham, Ont | | 15 00 6 00 |
| 2560 | | 6 | Jas. Alex. Bailey Thos. E. Smith | Mate | Gravenhurst, Ont Necum Teuch, N.S | Wolifay | |
| 2561 | | 7 | Joseph Kemp. | Master | Montreal One | Sydney | 15 00 |
| 2562 | | 7. | Robt, J. Stroud | 11 | Montreal, Que Milford Bay, Ont | St. Catharines. | 13 00 |
| 2563 | | 10 | Alfred Mortimer | 1 | Mortimer's Pt., Muskoka | " | 15 00 |
| 2564 | | 13 | Alfred Mortimer Arthur A. Batten. | 11 | Collingwood Ont | l | 15 00 |
| 2565 | . ! | 13 | John Gloundison | Mate | Victoria, B.C. | Victoria | 6 00 |
| 2566 | | 16 | Fredk. L. Foote | 1 | Yarmouth, N.S | Yarmouth | ⊢ 6 00 |
| 2567 | | 28 | r. Copperthwaite | Master. | Birdsalls, Ont. | Kingston | 15 00 |
| 2568 2569 | | 28 28 | Joseph Lodge | Mate | Lunenburg, N.S | Lunenburg | 8 00 |
| 2570 | | 29 | James F. Lunan Wm. E. Lockhart | Master | Vormouth N S | Vormonth | 15 00 15 00 |
| 2571 | | | Wm. E. Lockhart | | Sandwich, Ont | St Cathorina | 15 00 |
| 20,1 | 1 | | narry L. Innes | | Bandwich, Ont | o, Camarines. | 10 00 |
| | 189 | | | ł | 1 | | 1 |
| | lJan. | 3 | J. W. Smith | | Newdy Quoddy | Halifax | 15 00 |
| 2573 | | 4 | Wm. George Cox. | | Collingwood, Ont | | |
| 2574 | | 14 | George R. Wood | " | Port Dalhousie, Ont | | 15 00 |
| 2575 | | | Paul Zellinsky. | j " | Victoria, B.C | Victoria | 15 00 |
| 2576 | | 14 14 | | " | W | 11 | 15 00 |
| 9577 | 11 | 17. | ALTER MEMORPHOLE | 1 " | Vancouver, B.C | 1 " | 15 00 |
| 2577 2578 | | 17 | Wm. E. James | Parmit to a - | | | |
| 2577 2578 | | 17 | Wnr. E. James | Permit to act | | | |

List of Certificates of Competency granted to Masters and Mates of Inland and Coasting Vessels, &c.—Continued.

| Certificate. | Da of Certif | | Name. | Grade. | Address. | Where Examination was passed. | Fee. |
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| _ | 189 | 8. | The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s | | | | \$ cts. |
| | Jan. | 14 | John Martin | Master | Peterborough, Ont | Kingston | 15 00 |
| 580 | ** | 17 | H. D. A. Cameron | | | Sydney | 15 00 |
| 581 582 | ** | 17 . | John McDonald | " | Goderich, Ont | St. Catharines. | 15 00 |
| 583 | 17 | | Laurent Roy | " | Wenoway, Que | Ottawa Kingston | 15 00 15 00 |
| 584 | | 24 | James J. Tyson | Mate | Wiarton, Ont. | St. Catharines. | 6 00 |
| 585 | ** | 24 | Herbert N. McMaster | Master | Deseronto, Ont | Kingston | 15 00 |
| 586 587 | ** | 24 | Thos. H. Harding | Mate Master | Yarmouth, N.S | St. John | 6 00 |
| 588 | " | 27 27 | Wm. Jas. Ferguson Francis B. Burke | master | Penetanguishene, Ont. | St. Catharines. | 15 00 15 00 |
| | Feb. | 2 | Wm, Vienen, jr | | New Westminster, B.C. | N. Westm'ster | 15 0 |
| 590 | 11 | 3 | D. A. McKinnon | " | St. Catharines, Ont | St. Catharines. | 15 0 |
| 591 592 | " | 4 | John Fredk, Noël | Master | Victoria, B.C | Victoria | 15 0 |
| 593 | " | 7 7 | Andrew McDonald L. R. Maguire | Master Mate | Hantsport, N.S Mulgrave, N.S | Halifax | 15 0 |
| 594 | ., | 7 | W. J. Murdoch | Master | Sherbrooke, N.S | Halifax | 15 0 |
| 595 | " | 7 | Charles Kane. | Mate | Halifax, N.S | ,, | 6 0 |
| 596 597 | 11 | 7 16 | David R. Christopher Wm. Heater | Master | Hopewell Cape, N.B Victoria, B.C | St. John | 15 0 15 0 |
| 598 | " | 16 | Benjamin Axhorne | Mate | Victoria, D.C | Victoria | 6 0 |
| 599 | 11 | | Henry Parsons | Master | | | 15 0 |
| 600 | 17 | 16 | Archd. Conrad. | " | | Lunenburg | 15 0 |
| 601 602 | " | 16 | Frederick Wood Wni. Sencabaugh | " | Wiarton, Ont Georgetown, P.E.I | St. Catharines. Halifax | 15 0 |
| 603 | " | | Jonas Johnson | " | | | 15 0 |
| ! | | | | | | ster | 15 0 |
| 604 | ** | 21 | John Hedgson | | | St. Catharines. | |
| 605 606 | " | 22 24 | R. W. Williams | " | St. John, N.B | St. John | 15.0 |
| 607 | ", | 24 | David W. Spence | " | St. Joseph de Sorel, Que. Southampton, Ont | St. Catharines. | 15 0 15 0 |
| 608 | Marc | | W. E. Parnell | 1 " | Mill Village, N.S | Yarmouth | 15 0 |
| 609 | 1 | 3 | Lars Carlgren | Mate | St. John, N.B | St. John | 6 0 |
| 610 611 | ": | 3 3 | Ludwig Anderson | | Vancouver, B.C | Victoria | 15 C |
| 612 | " | 7 | Donald McPherson | | | " | 15 0 |
| 613 | " | 7 | Stephen Martin | | | | 15 0 |
| 614 | l . | 7 | I. J. Sanburn | | | " | 15 0 |
| 615 616 | " | 7 | Donald McLennan H. R. Bilton. | Mate | Victoria, B.C | | 6 0 |
| 617 | ", | 7 | Chas. I. Harris | Master | | | 15 0 |
| 618 | ,, | 7., | Geo. Wm. Matheson | | | | 15 0 |
| 619 620 | l | 7 | John Macleod | Mate | | Onabe a | 6 0 |
| 620 | | 9 9 | Joseph Seguin | Master | Hudson Heights, Que Bruce Mines, Ont | Quebec St. Catharines. | 15 (15 (|
| 622 | ,, | 9 | | ,, | Sherbrooke, N.S | Halifax | 15 0 |
| 623 | | 9 | Harry S. Morris | | | St. John | 6 0 |
| 1624 1625 | 1 | 14 | Wm. E. Morris. Hector Duval | | | Halifax | 15 0 |
| 626 | " | 16 | | | | Quebec St. Catharines | 15 (|
| 627 | | 16 | Rémi Filteau | | | Quebec | 15 0 |
| 628 | " | 16 | Ferdinand Côté | | 3 3 | g. "g | 15 0 |
| 629 630 | | 17 20 | Donald MacAulay Robert F. Geldert | | | St. Catharines Lunenburg | 15 (|
| 631 | | | Reuben Chute | 11 | Lunenburg, N.S Hampton, N.S | | 15 0 |
| 632 | | 22 | Léon Prégent | Mate | Melocheville, Que | Kingston | 6 (|
| 633 | | 22 | | | | | |
| 634 635 | 1 | 22. 23. | Hugh Ross Martin B. Westhaven | Master | Port Robinson, Ont Lunenburg, N.S | Lunenhum | 15 (|
| 636 | | | Geo. H. Selig. | . " | | | 1 40 4 |
| 637 | 11 | 23 | Ammon H. Zink, | | Lunenburg, N.S | | 15 |
| 638 | | 23 | John C. Walters | | " | | 15 (|
| 1639 1640 | | 24 | Geo. F. Fortney | . 1 11 | Winnipeg, Man | Winnipeg | 15 4 |
| 641 | | | Joseph Laforaist James Harrigan | | St. Ignace, Que Lunenburg, N.S | Quebec Lunenburg | 15 (|
| 642 | | | W. A. McCoffrey | | Ottawa, Ont | | |

List of Certificates of Competency granted to Masters and Mates of Inland and Coasting Vessels, &c.—Continued.

| Certificate. | Date of Certifica | te | Name. | Grade. | Address. | Where Examination was passed. | Fee. |
|--------------|-------------------------|-----|-----------------------------------------|---------|-------------------------------------------|-------------------------------------|----------------|
| | 1899. | | | | | | \$ cts. |
| | Mar. 29 | -1 | Alonzo D. Oakes | Master | Bridgewater, N.S | Lunenburg | 15 00 |
| | Apr. 5 | | | " | Lunenburg, N.S Brooklyn, N.S Quebec | " | 15 00 |
| 645 646 | " 5 | • • | Joseph A. Smith | | Ouebec | Quebec | 15 00 15 00 |
| 647 | . 11 6 | | Edward A Dillon | Mate | Main-a-Dien, C.B., N.S. | Sydney | 6 00 |
| 648 | · '' 6 | | John J. Johnson | " | Rathburn P. O., Ont | St. Catharines | 6 00 |
| 649 | n 10 | | Freeman H. Lohnes | Master | Lunenburg, N.S | Lunenburg | 15 00 |
| 650 | " 12 | | Jas. Brown Foote | ** | Owen Sound, Ont Collingwood, Ont | Kingston | 15 00 15 00 |
| 651 652 | " 12 " 12 | | John Bain Currie Arthur Lefebvre | " | Valleyfield, Que | or. Camarines | 15 00 |
| 653 | 12 | | Benj. Garvie | | Kemble, Ont | Kingston | 15 00 |
| 654 | | | Alex. Gordon | | North Sydney, C.B., N.S. | Sydney | 15 00 |
| 655 | " 12 | | Frem. Torangeau | | Buckingham, Que | | 15 00 15 00 |
| 656 657 | " 12 | ٠٠ | Joseph Gagné | Mate | Quebec, P.QSt. John, N.B | St. John | 6 00 |
| 658 | " 12 | | John C. Woods. | Master | Windsor, Ont | Kingston | 15 00 |
| 659 | | | Stanley Fisher. | " | Port Mouton, N.S | Halifax | 15 00 |
| 660 | " 12 | | Herbert Barker | Mate | West Selkirk, Man | Winnipeg | 6 00 |
| 661 662 | | | Louis Laforest | Master | St. Ignace, Que Nakusp, B.C | Victoria | 15 00 6 00 |
| 663 | " 19 | | Wm. Kirby Allen Fralick | | | 11 | 6 00 |
| 664 | | | B. L. Johnson | 11 | Liverpool | | 6 00 |
| 665 | . 19 | | Wilson Smith | | Bonaventure, Que | Halifax | 6 00 |
| 666 667 | " 19 | | Wm. Mather | " | Ruthven, Ont Midland, Ont | St. Catharines | 6 00 |
| 668 | " 19 | | Cornelius O'Connor | Master. | New Westminster, B.C. | N. Westm'ster | 15 00 |
| 669 | | | Peter J. Shaw | | Lakeport, Ont | St. Catharines | 15 00 |
| 67u | ıı 19 | | John Howe | | Port Dalhousie, Ont | !! | 15 00 |
| 671 672 | " 19 | | Alex. Vance | " | Port Dalhousie, Ont | Winnipeg | 15 00 |
| 673 | " 19 | | Wm. McMaster | " | 'ictoria B.C | Victoria | 15 00 |
| 674 | . 24 | | Sherman Gasson | Mate | 'lympton, N.S | Yarmouth | 15 00 |
| 675 | | ٠. | Wilfred J. Kane | | | | 15 00 |
| 676 677 | | | Robert Fenton | M-4- | New Westminster, B.C Oakville, Ont | N. Westm'ster | 15 00 6 00 |
| 678 | | | James Quinn Chas. H. Hansen | Master | Loggerville, N.B | New Castle | 15 00 |
| 679 | 26 | | Jeremiah Downey | li | Rat Portage, Ont | Winnipeg | 15 00 |
| 680 | 26 | ٠. | Chas. Williston | 11 | Douglastown, N.B | New Castle | 15 00 |
| 681 682 | " 26 | | | Mate | Guysboro', N.S | | 6 00 15 00 |
| 683 | " 26 | | Alex. McNab | Master | | St. Catharines | 15 0 |
| 684 | 26 | | Wm. Williams | ,, | | Winnipeg | 15 00 |
| 85 | ıı 27 | | Geo. S. Wilband | | Vancouver, B.C | N. Westm'ster | 15 00 |
| 686 | May 1 | | B. H. Morehouse | | | St. John St. Catharines | 6 00 15 00 |
| 688 | 11 1 | | W. H. Wenborne Joseph E. Goodwin, jr | Master | | | 15 0 |
| 2689 | | | Juseph Couillard | 1 | | Ottawa | 15 00 |
| 2690 | | ٠. | F. R. Dale | | Port Stanley, Ont | St. Catharines. | 15 0 |
| 2691 2692 | | | J. B. Lacroix. W. H. Porter | | Carillon, Que | Ottawa St. Catharines. | 15 00 6 00 |
| 2693 | 3 . | | John Gosse | Mate | Fort Erie, Ont Vancouver, B.C | | 15 0 |
| 2694 | ., 4 | | David Bremner. | 1 | Victoria, B.C | | |
| 2695 | " 10 | ٠. | John Marks | 1 | Toronto Ont | St. Catherines. | 15 0 |
| 2696 2697 | | ٠. | A. J. Dickens John Anderson | 1 | | St. John | 15 00 15 00 |
| 2698 | 6 | | Alfred Robinault. | Mate | Vallevfield, Que | Valleyfield | 6 0 |
| 2699 | 6 | ٠. | Wm. A. McPherson | Master | Pictou Landing, N.S | Halifax | 5 0 |
| 700 | ,, 10 | ٠. | H. J. Davis | | Rat Portage, Ont | Winnipeg | |
| 2701 | , 10 | ٠. | Peter McPhail | Mata | , | St. Catharines. | 15 00 6 00 |
| 2702 2703 | " 10 " 10 | | Emil Ramlose | Mate | Victoria West, B.C | Victoria | 15 0 |
| 2704 | ,, 10 | ١ | J. R. Graner | Master | Vancouver, B.C. | 11 | 15 0 |
| 2705 2706 | ., 10 | ١ | Martin Stone | " | Victoria, B.C | | 15 0 |
| | ,, 10 | • | Wm. Watts | . " | Harrison Hot Spring, B.C. | !! " | 15 00 |

List of Certificates of Competency granted to Masters and Mates of Inland and Coasting Vessels, &c.—Continued.

| Certificate. | Da of Certif | f | Name. | Grade. | Address. | Where Examination was Passed. | Fee. |
|-------------------|--------------------|-------------|---------------------------------|--------|--------------------------|-------------------------------------|--------------|
| | 189 | 19. | | | | | \$ cts |
| 708 | May | 15 | F. A. Lewis | Master | Louisburg, N.S | Svdnev. C.B. | 15 0 |
| 709 | " | 15 | John McMann | | Millerton, N.B | New Castle | 15 0 |
| 710 | " | 16 | Fred S. Inness | | Liverpool, N.S | | 15 0 |
| 711 | " | | Jackson Croggins | " | Westport, N.S | " | 15 0 |
| 712 | ** | 16 | Charley Johnson | | Nanaimo, B.C | Victoria | 15 0 |
| 713 | | | Frederick Hogan | | New Westminster, B.C. | | 15 0 |
| 714 | 1 | | Hugh, Kelly | i . | | St. Catharines | 15 0 |
| 715 | | 16 . | Thos. Kimmitt | | St. Catharines, Ont | " | 15 0 |
| 716 | 1 | 16 | Peter McKinnon | 4 | · | " | 15 0 |
| 717 | ** | | Alexander McKinnon Sidney Mowry | | Tiverton, Ont. | | 15 0 15 0 |
| 719 | | | Donald McPhee | | Huntsville, Ont | 1 | 15 0 |
| 720 | " | 17 | Wm. J. Foote | Mate. | Uptergrove, Ont | St Catharines | 6 0 |
| 721. | | | Chas. S. Boucher | Master | Chatham N R | Now Costle | 15 0 |
| $7\overline{22}$ | ", | 17 | Michael P. Stillar | " | Sturgeon Falls, Ont | | 15 0 |
| 723 | | 22 | B. E. Rudderham | | North Sydney, C.B., N.S. | | 15 0 |
| 24 | | 26 | Chas. G. Bacher | | Kaslo, B.C | | 15 0 |
| 725 | | 27 | J. A. Henderson | | Lakeport, Ont | | 15 0 |
| 726 | | 26 | Simon Kelly | | Fogmount, Ont | Ottawa | 15 0 |
| 727 | 11 | 29 | Chas. F. Barkhouse | | Falmouth, N. S | Windsor | 15 0 |
| 728 | ., | | Lemuel C. Creaser | | Lower La Have, N.S | Lunenburg | 15 0 |
| 729 | | 31 | James A. Ritchie | 11 | Victoria, B.C | Victoria | 15 0 |
| | June | 14 | James A. Young | Mate | Toronto, Ont | St. Catharines. | 60 |
| 731 | | 14 | Edwin L. Hughes | Master | St. John, N.B | St. John | |
| 732 | | 14 | Nelson A. Smith | Mate | Cheverie, N.S | | 6 0 |
| 733 | i . | 15., | Samuel Coates | Master | Vancouver, B.C | Victoria | 15 0 |
| 734 | | 10 | Robert Simons | Mate | Garden Island, Ont | Kingston | 6.0 |
| $\frac{735}{736}$ | 1 | 10 | John Playter | Moston | Babbean P.O., Ont | G | 3 0 |
| 736 | | 10 | John McDonald | Mata | Post Polisson Ost | Sydney | 15 0 |
| 737 738 | | | Wm. M. Thomas | | | | 60 |
| 739 | | 16 | Wm. W. Sadler | | St. Andrews, Ont | Kingston | 60 |
| 740 | .1 | 16 | F X Laviolette | | St. Ours One | Onobea | 6 0 |
| 741 | " | 19 | F. X. Laviolette | | Windsor Ont | St Catharines | 6 0 |
| $7\overline{42}$ | | 19 | Henry Hebb | Master | Lunenburg, N.S | Lanenburg | 15 0 |
| 743 | | 19 | Louis Levesque | " | Chicoutimi, P.Q. | Quebec | 15 0 |
| 744 | | | Judson Ferris | 11 | Lincoln Parish, Sun- | St. John | 15 0 |
| | | | | | bury Co., N.B | | ! |
| 745 | ,, | 19 | Thomas Sughrue | " | D'Arcy P.O., Howe Is- | Kingston | 15 0 |
| | | | Į , | 1 | land, Ont | " | |
| 746 | ., | 22 | L. M. Hatfield | Mate. | Arcadia, N.S | Yarmouth | 6 0 |
| 747 | | 22 | Henry Milot | | Roberval, Que | Quebec | 6 0 |
| 748 | | 22 . | Wm. Shaw McPhee | | Westmond, Montreal | | 6 0 |
| 749 | | 23 | Archie S. Campbell | | | | 15 (|
| 750 | ٠, | 23 | Neil Neilson | | | Dalhousie | 15 (|
| | 1 | oc | D | | gouche, N.B | G. T. | |
| 751 | | 26 | Russell S. Ramsay | 11 | Malpeque, P.E.I | | 15 (|
| 752 | | | George E. Gilley | | New Westminster, B.C. | | 15 (|
| 753 | | 27 | Wm. P. Cann | | Louisburg, N.S | | 15 (|
| 754 | " | 49 | Malcolm McKechnie | | Providence Bay, Ont | 51. Catharines. | 15 (|

LIST of Certificates of Service granted to Masters and Mates of Inland and Coasting Vessels, during the year ended June 30, 1899.

| Number of / | Date of Certificate | Name. | Grade. | Address. | Where Examination was passed. | Fee. |
|----------------------|---------------------|---------------------------------------------------------------------------|--------|--------------------------------------------------------------------------------------|----------------------------------------------------|-----------------------------------------|
| 3337 3338 | " 29 Aug. 19 | Ernest W. Spencer | Mate | Osborne, Shelb'ne Co., N S Kingston, Ont | Lunenb'rg, NS Kingston, Ont | \$ cts. 8 00 8 00 4 00 8 00 |
| 3341 3342 3343 | Apr. 6 | Geo. A. Huff Robt. Colwill Philip H. Poirier Burpee Tupper J. E. Cornwall | " | Alberni, B.C Port Hope, Ont D'Escousse, C.B., N.S. Spencer's Island, N.S Sombra, Ont | St. Catharines. Pictou, N.S Parrsboro', N.S. | |

APPENDIX No. 49.

STATEMENT of Wrecks and Casualties reported as having occurred to British, Canadian and Foreign Sea-going Vessels, in Canadian Waters, and to Canadian Sea-going Vessels, in other Waters, for the twelve months ended June 30, 1899.

| | | | | | | | 63 | VIC | то | RIA, / | A. 1900 |
|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-----------------------------------------|-------------------------------------------------------------|-------------------------------------------|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|---------------------------------------------------------|----------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Remarks. | 8, 350 200 | loss. | Total loss; amount | ported. Triffing accident. | Partial loss; amount of damage | not reported. Partial loss, 8,000 | 250 | ss, 450 | oss, 1,000 | 200 | Total loss; amount of loss not reported. |
| Ren | Total loss, Cargo, | Triffing loss. | Total los | ported. Triffing 8 | Partial ount | | = | Total los | Partial loss, | Cargo," | Total loss of loss ported. |
| Lives lout. | <u>::</u> | <u>:</u> | <u>:</u> | <u>:</u> | <u>:</u> | _ : | : | | | • | : |
| Cause and Nature of Casualty. | Halifax, N.S. Schr., wood, 21 28 Cape Bretonto Halifax, At the mouth of Sheet Broke from her anchorage and drifted to sea and sail. | solute. Seaforth Channel, B.C. Engine went wrong | Run into by a steamer | to Below Lavaltrie Range Mistake on the part of Light, P.Q. | River StrandedQue. | Charlottetown to North Half a mile below Bea- Heavy wind and narrow Sydney, N.S. | 45 Shulee, N.S., to Bar 6 miles B. from Apple Damaged in heavy weababoes, B.W.I. River Light, N.S., ther. | to Off Hantsford, U.S Filled with water and Total loss, | went down. Damaged in collision | 48 Mabou, N.S., to Port Margaree Harbour, N.S Stranded in a heavy sea. Hood, N.S., to Mar- | garee, N.S. 1936 Liverpool, England, to 200 yards from Miscou No particulars reported Campbellton, N.B. Light, Gulf of St. Lawrence. |
| Place where Casualty happened. | At the mouth of Sheet Harbour, N.S. | Seaforth Channel, B.C. | Atlantic Ocean | Below Lavaltrie Range Light, P.Q. | Cape LaRoche, River St. Lawrence, Que. | Half a mile below Beavers Narrows, St. | 6 miles S.E. from Apple River Light, N.S., | Bay of Fundy. Off Hantsford, U.S | 1 mile below Preston | Margaree Harbour, N.S | 200 yards from Miscou Light, Gulf of St. Lawrence. |
| Port sailed from. | Cape Breton to Halifax, N.S. | Point Townsend to | 1308 Dublin to New York. Atlantic Ocean | 408 Dalhousie, N.B., to Gaspé, Que. | 2331 Hamburg | Charlottetown to North Sydney, N.S. | Shulee, N.S., to Barbaboes, B.W.I. | 124 Parrsboro', N.S., to | Hillsboro', N.B., to | Mabou, N.S., to Port Hood, N.S., to Mar- | garee, N.S. Liverpool, England, to Campbellton, N.B. |
| Register Tonnage. | 21 · 28 | | 130 | | | | | 134 | 531 | 84 | 986 |
| How rigged. Iron or Wood. Steam or Sail. | Schr., wood, | : | Barque, wood, | Wood, steamer | Schooner, iron, steam. | Schr., wood, | : | : = | Barque, wood, | outh, Schr., wood, | Barque, wood, sail. |
| Port of Registry. | Halifax, N.S. | American | 19 Windsor, N.B. Barque, wood, | Quelec | 1 Hamburg | Charlottetown Schr., wood, P.E.L. sail. | St. John, N.B. | = | : | Yarmouth, N.S. | Norway |
| Age of Ship. | 8 | 15 | 61 | : | - | 17 | 15 | 19 | ∞ | g | <u>:</u> |
| Name of Ship. | 1897. April – Agnes | 3 Alki | Sept. 8 Athlon | May 12 Admiral | Sept. 26 Arabia | Oct. 10 Alma | Nov. 25 Anita | A. J | Sept. 14 Albert | 5 Alfaranta | Oct. 16 Arngards |
| Date of Casualty. | 1897. April – 1898. | April 8 Alki | Sept. | May 1 | Sept. 24 | Oct. 10 | Nov. 22 | Oct. 26 A. J | Sept. 1 | Dec. | Oct. 10 |

| SESS | IONAL | PAF | PER N | | 1b | | | | | | | | | | | | | | | | |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|---------------------------------------------|--------|-----------------------------------|-------|-------------------------------------------|-------|------------------------------------------------|-------------------------------------|------------------------------------------|------------------------------------------------------------------------|-------------------------------------------------------|------------------------------------------|------------------------------------|--------------------------|--------------------------------------------------------------------------------------------------------------------------|-----------------|--------------------------------------------------------|-----------------------------------------------------|
| 06 | | 88 | R 29 | 1,000 | | 4,000 | | 2,250 | | 1,500 | sm. | 2,500 | 200 | 1,500 | • | ot re- | 100 | 909 | | 88 88 | 8 |
| Total loss, | | Partial loss, | Cargo Partial loss, | = | | Total loss, | | Partial loss, | | = | Partial loss; am- ount of damage | not reported. Total loss, 2, | Ξ | Partial loss, | Partial loss. | Cargo; amount of damage not re- | ported. Partial loss, | : | | Partial, Cargo, | Partial loss, |
| <u>:</u> | 61 | <u>:</u> | : _ | : | | | | <u>:</u> | | : | : | <u>:</u> | <u>:</u> | <u>:</u> | : | | : | <u>:</u> | | <u>:</u> | <u>:</u> |
| Har-In N. E. Harbour, Shel-Broke from her moorings Total loss, Co., burne Co., N.S. | This vessel was found derelict near Mud Isl'd, water logged and dis- | Duluth to Buffalo Near Bois Blanc Island Destroyed by fire | 91 Boston, Mass., to Mus-Salem Harbour, Mass., Damaged in the hurricane quash, N.B. U.S. of the 27th Nov., 1898. | Stranded in storm | | Went ashore | | Collision caused by a big gale. | | Stranded in fog | Heavy gales caused serious damage. | Stranded | 18 St. Peters to Arichat Herring Rooks entran'e Stranded, Captain kept | Dragged anchors in a | Encountered gales and | hеаvу seas. | Grounded | Damaged in collision with another vessel. | | to Salem Harbour, Mass., Put into Salem Harbour U.S.A. | Vessel damaged in collision. |
| In N. E. Harbour, Shelburne Co., N.S. | N.S., to Bay of Fundy | Near Bois Blanc Island | Ont. Salem Harbour, Mass., U.S. | Cutler, Maine, U.S | | Sand Island, Alabama, Went ashore | | Cardiff Roads. | | Florida, to British Honduras | At Sea | Gannet Rock Ledge, near Cape Foucher, | Herring Rocks entran'e | Beverley Harbour, U. | Buenos Gulf Stream, American Encountered | Coast. | Cumberland Bay, N.S. | Cape Ann, bearing S. W. by W. 5 M., Bos- | ton Bay. | Salem Harbour, Mass., U.S.A. | Minas Basin, N.S. |
| burg, Schr., wood, 52.84 Lying in N. E. Har- | town, York. | Duluth to Buffalo | Boston, Mass., to Musquash, N.B. | 99 Yarmouth to Parisboro Cutler, Maine, U.S | | 99 Cuba to Mobile. | | 399 Cardiff to Rio Janerio Cardiff Roads. | | 197 Pensacola, Florida, to Rritish Honduras | 1551 Cardiff to Cape Town At Sea | 47 Yarmouth | 8 St. Peters to Arichat | 116 St. John to New York Beverley Harbour, U. Dragged | 344 Yarmouth to Buenos | Ayres. | Ost. John, N.B., to Ad- | 97 St. John, N.B., to New Cape Ann, bearing S. Damaged in co York, John, W.B., to New W. by W. 5 M., Boslandther vess | | 82 St. John, N.B., to Salem. Mass. | 6 Cheverie, N.S., to Cal-Minas Basin, N.S. ais, Me. |
| 25.8 | ðs. | : | Ġ | 6 | | 6 | | æ | | 19 | 155 | 4 | - | 11 | * | | 7 | 6 | | ∞ | |
| Schr., wood, | : | Barque, wood, | steam. Schr., wood, sail. | : | | = | | Bktn., wood, | | : | Barque, wood, | Steamer | Schr., wood, | 8811. | uth. Betn. wood. | sail. | oro', Schr., wood, | saul. | | : | : |
| Lunenburg, N.S. | Yarmouth, N.S. | American Barque, wood, | St. John, N.B. | Parraboro', | ; ; | : | | St. John, N.B. | | Parraboro', | Windsor, N.S. | Quebec | Charlottetown | Windsor, N.S. | Yarmo | N.S. | Parrsboro', | N.S. St. John, N.B. | | St. John, N.B. | New Maitland, N.S. |
| \$ | 27 | <u>:</u> | <u>:</u> | 15 | | 27 | | 16 | | 9 | 6 | 8 | 88 | = | 12 | | ∞ | 6 | | 12 | <u>:</u> |
| ov. 27 Amiel Corkum 34 Lunen N.S. | Annie G | 12 Aurora | | 5 Amy D | 99. | 4 Ava | | - Albatros | .66 | Mar. 25 Athtle | Jan. 10 Angola | 7 30 Anna McGee | 3 Amorette | . 7 Avalon | . — Aldine | | Sept. 23 Athol | June 27 Abana | . 86 | June 3 Bertha Maud | Sept. 20 Bessie A New Maitland, N.S. |
| 00 | Dec. | = | Nov. | Dec. | 1899. | Jan. | 1898. | Feb. — | 1899. | Mar | Jan. | May | = | Feb. | Mar | | Sept | Jun | 1898. | Jun | Sep |

| Vessels in | |
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| cks and Casualties reported as having occurred to British, Canadian and Foreign Sea-going V | a, |
| to Britis | ontinuea |
| occurred | unadian Waters, &c.—Cont |
| having | anadian Wat |
| as | ğ |
| reported | Cane |
| Casualties | |
| and | |
| Wrecks | |
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| STATEMENT | |
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| | | | | | | | | | | 6 | | | ORIA, | | 1900 |
|------------------------------------------------|------------|-------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|------------------------|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------|-------------------------------------------|
| | 6 9 | таде | 5,000 | | 900 | | 1,000 | 800 | 200 | 2,000 | 8 | o,0 | 5,900 | 1,000 | 7,000 |
| Remarks. | | Extent of damage not known. | Total loss, | Total. | Total loss, | = | = | = | Partial loss, | = | | Loral loss, | * | Partial loss, | = |
| Lives Lost. | | | : | : | | <u>:</u> | i | : | : | : | | : | : | | <u>:</u> |
| Cause and Nature of Casualty. | | 975 Moodyville to Valpar-15 miles outside Cape Casualty caused by heavy aiso. | 899 Buenos Ayres, Barba- On the bar off Chande- Owing to a strong current does, to Ship Island, lem Island, 12 M., vessel got out of her | Mass. Course. 25 Bras d'Or Lake, C.B., Point Aconi, C.B., N.S.A. wind storm cause of | ydney, U.B. Casuarty. Casuarty. Casuarty. Campbelltown, 3 miles east of Pictou The vessel's sails were Bras d'Or to Light, Gulf Shore, lost in a gale. | Picton, N.S. N.S. N.S. Stranded owing to an katha, Skeena River. kathe Inlet. | Sank in collision | Newtoundland. 1.1ghr, C.B., N.S. 95 Joggins, N.S., to St. Apple River, Cumber-Vessel filled owing to the | John, N.B. land Bay, N.S. biggale and went down. 20 Montague, P.E.I., to Near Chance Harbour, Casualty caused by thick | Pictou, N.S. N.S. Parted chains while lying 5:83 Louisburg to Shelburne Liverpool Harb'r, N.S. Parted chains while lying | erpool, in a gale, and became a partial loss. | Stranded | ; ; ; ; ; ; | Damaged in gales | Badly damaged in rough weather. |
| Place where Casualty happened. | | 15 miles outside Cape Flattery, North Paci- | ne Ocean. On the bar off Chande- lem Island, 12 M., | Gulf of Mexico. Point Aconi, C.B., N.S | 3 miles east of Pictou Light, Gulf Shore, | N.S. Browing Island, Kil- katle Inlet. | 10 miles off Low Point | Apple River, Cumber- | land Bay, N.S. Near Chance Harbour, | N.S. Liverpool Harb'r, N.S. | | Chandeleur Isl'd, M188., | 25 miles E. of Fire Isl'd, American coast. | North Atlantic | Atlantic Ocean. |
| Port sailed from. Port bound to. | | Moodyville to Valparaiso. | Buenos Ayres, Barba- does, to Ship Island, | Mass. Bras d'Or Lake, C.B., | 63 New Campbelltown, Gt. Bras d'Or to | Pictou, N.S. Victoria, B.C., to Kit- katha, Skeena River. | North Sydney, C.B., to | Joggins, N.S., to St. | John, N.B. Montague, P.E.I., to | Pictou, N.S. Louisburg to Shelburne | | 159 Havana, Cuba, to Pas-Chandeleur Isl'd,M188., Stranded. | 344 Savannah to New York 25 miles E. of Fire Isl'd, American coast. | 321 Surinan to New York. North Atlantic. | 319 Boston to Philadelphia Atlantic Ocean |
| Register Tonnage. | | 975 | 836 | R | 83 | 239 · 20 | 88 | 95 | ଛ | 95.83 | | 159 | 344 | 321 | 319 |
| How Rigged. Iron or Wood. Steam or Sail. | | iso Wire, wood, | Barque, wood, sail. | C.B., Schr., wood, | sail. | : | : | : | Schr., wood, | | | Schr., wood, | , N.S. Barque, wood, sail. | Schr., wood, | sail. Bgtn., wood, sail. |
| Port of Registry. | | 13 Valparaiso | St. John, N.S. | Sydney, C.B., | N.S. Halifax, N.S. | Victoria, B.C. | Lunenburg, | N.S. 30 Dorchester, | N.B. 23 Guysboro', N.S Schr., | 14 Shelburne, N.S | | 8 Parrsboro, NS Schr., wood, | 17 Windsor, N.S. | : | 9 Yarmouth, N S Bgtn., wood, sail. |
| Age of Ship. | | 13 | 83 | : | : | 15 | 88 | ક્ષ | | | | ∞ | 17 | | |
| Name of Ship. | | Sept. 14 Bertha | 13 Buteshire | 27 Blue Bell | 27 Balance | 16 Barbara Bosco 15 wizt. | 12 Brisk | Nov. 27 Berma | he Bav. | 29 Blanche M. Thor- | bourn. | 1 Brenton | 10 Brazil | 9 Bahama | Mar. 29 Bertha May |
| Date of Casualty. | 3031 | Sept. 14 | . 13 | 27 | : 22 | " 16 | Oct. 12 | Nov. 27 | Nov. 30 | 8 8 | | Feb. 1 | " 10 | Feb. 9 | Mar. 29 |

| SESSION | AL P | APE | ER | No. | 11b | | | | | | | | | | | | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|--------------------------|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|--------------------------------------------------|------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|---------------------------------|---------------------------------------------------------|--------------------------------------------|----------------------------------------|---------------------------------------|--------------------------------------------------------------|-----------------------------------------|-----------------------------------------|----------------------------------------------------------|---------------------------------------------------------------------|
| mt. of rted. 800 | dam- | 150 | 9,000 | 100 | 200 | 200 | Amt. | = | 250 | 200 | mt. of | 150 150 | mt. of | 3,000 | 800 | 1,100 | 700 | 100 | 909 | 300 200 200 |
| Total loss. Amt. of loss not reported. Partial loss, 800 | ery slight age. | Partial loss, | Total loss, | Partial loss, | = | z | Partial loss. Amt. of damage not re- | | Fartial loss, | al, | Cargo, Inc. Total loss. Amt. of | loss not reported. Partial loss, 150 | Total loss. Amt. of | Total loss, 3,000 | Partial loss, | Total loss, | Partial loss, | = | = | Partial loss, |
| Tot los Par | Very age. | Par | Tot | Par | | | Par of | <u>.</u> | Far | . Total, | Total Ic | Par | | Lot I | . Par | Tot | Par | | | Partial Cargo, |
| ÷ : | : | - : | -r | : | - ÷ | <u>:</u> | : | - } | + ₽ ₽ : | <u>:</u> | <u>:</u> | : 5 | 6. | j o | : : | : | <u>:</u> | : | - | <u></u> |
| in rough wea- | e steame | | a proper | avigatio | other ve | squaii. | 20 | by thic | ng to be oaded o | | : | g gale of | | gale | : | d stranc | : | : | a thick | jured b |
| o | ith th | llor. | keep | the n | ip. ith an | eavy | unpas | nsed | r owin | mast | : | in bi | 1898. | in the | ther | insan | | : | re in | nd in |
| 344 Savannah LaMar, Ja-Several hundred yards Stranded in maics, to New York. from Lory Island. ther. 78 Parrsboro', N.S., to St. Magaguadavie River, Ran ashore. George, N.B. | In the Miramichi River, Collided with the steamer N.B. | Lost propellor | Johns, Nfd. 1456 St. John, N.B., to Run-Near Cape Sable, Seal Did not keep | Island, N. Atlantic. look-out. to St. Thatcher's Island, N. Fault of the navigation | of the ship. St. Law Collided with another yes- | sel in a heavy squal. | ney, C.B. North Shields, Queens- Matane River, St. Law- Fault in compass town, to Quebec. | 1154 Pictou to Montreal W. point of Grand Anse, Casualty caused by thick | 21 Was laid up at Rowan's Rowan's Point, Indian-Listed over owing to be- Point, Indiantown, town, St. John, N.B. ing t., o much loaded on | St. John, N.B. one side. 49 Kelly's Cove, C.B., to Straits of Northumber-Lost main mast | Gaspé Big storm | county, Que. to Pisarinco, St. John Co., Damaged in big | N.B. Kootenay Lake, B.C. Sprang a leak. | to Vineyard Haven, U.S. Wrecked in the | of Rough weather | Gaspe, Que. to West Quoddy, N.S Parted chains and strand- | from Heavy gale. | = | of Fundy. to Green Island, Me., U.S. Went ashore in fog. | Mag- White Sands, Murray Stranded and injured by Harbour, P.E.I. |
| ds Str | بر ا | | al Di | - E | <u>ီ</u> | <u>ීපී</u> : | w-Fa | e, Ca | n- F. | -1- -1- | pé Big | Da | | <u>⊗</u> ′ | of Ro | Pa | m He | , á | <u>×</u> | y Str |
| d yar land. Rive | i Rive | St. Atlantic Ocean | ole, Se | tlantic und,] | r. La | √ue. | št. La | id Ans | Gaspé coart, Que. owan's Point, Indian- town, St. John, N.B. | numbe | | ohn C | , B.C | n, U. | east | S | e from | | e.,U. | Murr E. I. |
| Several hundred ya from Lory Island Magaguadavie Ri N.B. | amich |)cean | Sal | N. A. | . કે. જે | rence Kiver, Que. | iver, Siver. | fGran | oart, Point, t. Joh | North | Cove, | St. J. | Lake | Наvе | to About 15 miles east | Que. ddy,] | assag | nandina, Flo. | y. nd, M | nds, r, P.1 |
| eral h om Lo aguac | the Mir N.B. | ntic (| r Car | land, tcher | Atlantic. Near Sorel, | nce K | atane River, rence River. | ointo | aspé c an's I wn, S | its of | land. [a]bay | County, Que. | N.B. ootenay | eyard | ut 15 | Gaspe, Que. 7est Quoddy, | the J | ndina Quace | of Fundy. reen Island | te Sa arbou |
| Mag N | In the | Atla | Nea | I.ha | z | | Mat | W. | इंद्रि | Stra | Mala Ber | 2 <u>8</u> | X 8 | Vine | Apo | Wes | o O | Off | Gree | Whi |
| Savannah LaMar, Ja-Several hundre matca, to New York. from Lory Isl Parrsboro', N.S., to St. Magaguadavie George, N.B. | to Chutham, | 2 | o Run | to St | John, N.B. Montreal to Quebec | 1451 Montreal, Que., to Syd- | Jueens | eal | Tas laid up at Rowan's Point, Indiantown, | B. E | Grand Malbay | | : | | | | 210 New York to Florida. On the passage | to [Grand Off Quaco, N.B., | | Mag |
| LaMa New N.S. | Chi | | ∄d. .B.:t | S. 888., | B. Oue | ∂ue., t | ney, C.B. orth Shields, Que town, to Quebec | fontre | sat Re Indiar | S S C.E. | Charlottetown. | N.B. | | 197 New York, U.S., | Yarmouth, N.S. 659 Cleveland, Quebec, | 99 Boston, Mass., | ass. to Flc | <u>ت</u> 2 | N.B., | 136 Lubec, Me., to dalen Islands. |
| ica, to boro', rge, 1 | on 3. | o, c | Johns, Nffd. John, N.B. | corn, Éng. oston, Mass., | in, N. | real, (| ney, C.B. orth Shiel town, to (| u to 1 | aid ul | s's Con | rlotte biac | er. John, | n, B. | York | rmout land, | New York. oston, M | Salem, Mass. ew York to F | boro | Manan. John, N. Salem, Mass. | , Me |
| Saval ma Parrs Geo | Garst N.1 | 689 Sydney, | Joh St. Jo | corn, I 96 Boston, | Joh | Mont | North tow | Picto | Was J Poi | Kelly | Charlotte 181 Paspebiac | 72 St. John, | Alma, N.B. 193 Nelson, B.C. | New | xa. Cleve | Ner Bost | Sale New J | 77 Parrsboro' | Manan. 97 St. John, Salem, N | Lubec |
| 344 | 2048 Garston N.B. | 689 | 1456 | 96 | 48 | 1451 | 1846 | 1154 | 21 | 49 | 181 | 72 | 193 | 197 | 629 | 66 | 210 | 2.2 | 76 | 136 |
| wood, | iron, | iron, | wood. | wood, | eam | Schr., iron, stm | ields. Schr., steel, stm | Schr., iron, stm | N.B. Schr., wood, steam. | wood, | wood, | wood, | od | wood, | wood, | wood, | wood, | • | : | 22 (American) Schr., wood, steam. |
| | Barque, steam | shr., | = | _ | 30 Montreal, Que. Iron, steam. | chr., ir | chr.,ste | shr., ir | chr., v steam. | | | sail. Schr., | sail. tr., wo | | Barge, | sail. Bgtn., 1 | Schr., v | - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 | = | chr., vsteam. |
| N.S. Bktn , NS Schr., | <u> </u> | ue. S | <u> </u> | N.B. | ue. | <u> </u> | ds. - <u>x</u> √ | <u>∞</u> : | .B. | town | <u>m</u> | N.B. | in-St | _રું - જું | <u> </u> | : | N.B. Sc | | N.B. | <u>-∞</u> |
| sor, N boro', | ool | eal, Q | outh.] | hn, N | real, Q | _ | Shiel | : မ | | | | | Vestin | S E | ican) | S.S. | | oro', 1 | hn, N | ican) |
| 17 Windsor, N.S. 20 Parrsboro', NS | 4 m. Liverpool | 16 Montreal, Que. Schr., | 19 Yarmouth, N.S.Ship. | 16 St. John, | Mont | - | 6 South Sh | 25 Quebec. | 27 St. John, | 25 Charlotte | 32 Jersey . | 24 St. John, | New V | ster, Winds | 16 (American) | 32 Digby, N | 16 St. John, | 16 Parrsboro, NS | 16 St. John, | Amer |
| | 4 m. | 19 | 161 | 91 | 8 | 13 | 9 | 23 | 22 | 153 | 32 | 22 | | 17 | 16 | 32 | 16.5 | 16 | 16.5 | |
| : g | : | : | ; | | : | : | | : | : | : | : | : | vorth | oore. | : | : | : | : | : | еаг |
| Carse | : : | : | ; | | : : : | : eg | noor. | ng. | | erate | . | in : | Ainsv | an M | u | . nc | ; eş | : | 1 C. | E.S. |
| Jan 31 to Brazil | July 15 Cunaxa | 9 Coban | 1898. July 1 Charles | July 27 Clifford C. | May 16 Canada | 16 Cacouna . | Castlemoor | June 1 Compans | 15 Captain. | 11 Confederate. | 27 Century | Nov. 27 Chieftain | 29 City of Ainsworth | 29 Christian Moore. | 11 Camden | 27 Campion. | Apr. 29 Carlotta | Dec. 17 Cygnet . | 4 Clifford C. | May 4 Charles E. Sear |
| 31to 6. 10 25 18. | 15 C | <u> </u> | 8. 1. | 27 0 | 16 C | 16 C | : | 1 1 | 15 (| == | 27. | 27 C | 8 | 8 | 110 | 27.0 | 68 | 17 C | | |
| Jan 31 Feb. May | July 1 | Dec. | 381 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1 | July | May | = | = | June | Oct. | = | = | Nov. | = | Ξ | = | = | Apr. | Dec. | Oct. | 1899. Мау |

STAIEMENT of Wrecks and Casualties reported as having occurred to British, Canadian and Foreign Sea-going Vessels in Canadian Waters, &c.—Continued.

| | | | | | | | | | 6 | 3 VICT | TORIA, A | A. 1900 |
|------------------------------------------|------------|--------------------------------------------------------------------|-------------------------|---------------------------------------------------------------------------------------------------|---------------------------------|---------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| gi si | 6/9 | Amt. of | 1,000 | 3,000 | 450 | 5,000 | 300 | $\frac{15,000}{4,250}$ | 1,500 | ; am- lamage ed. | umt. of corted. 20,000 | 150 600 |
| Remarks. | | Total loss. Amt. of | Total loss, 1,000 | Partial loss, | : | = | Partial loss, | Total loss, Cargo, | Partial loss, | Partial loss; amount of damage not reported. | Total loss; amt. of loss not reported. Partial loss, 20,000 | Partial loss, Cargo, |
| Lives lost. | | | : | | : | : | : | : | : | | | |
| Cause and Nature of Casualty. | | Liverpool to Newburg. Vineyard Haven Har-Strong gales and high sea | Sprang a leak and foun- | 142 St. Lucia, B.W.I., to Vineyard Haven Har. Danaged by storm. Ves-St. John, N.B. St. John, N.B. | yard Haven Harbour. Stranded | Strong gales | 97 St. John, N.B. to St. Jisarinco, St. John Co., Stranded in the gale of Partial loss, Martins, N.B., to N.B. | Tremendous gales and heavy seas. | 287 New York to Cheverie. Vineyard, Haven, U. Damaged in the gale of S.A. Nov. 27, 1898, being run | into by another vessel. Heavy seas and rough weather; ship aband- oned after she became | unmanageable. St. Ran ashore in the fog and strong gale. Stranded | light, Heavy gales |
| Place where Casualty happened. | | Vineyard Haven Har- | 25 miles off Liscomb, | Vineyard Haven Harbour, U.S. | San Nicholas, La Plata Stranded | public. North Atlantic | Sisarinco, St. John Co., N.B. | t. Abandoned, lat. 35 42, Tremendous | Vineyard, Haven, U. S.A. | At 1608 | Head, Bay, Nfid | to New Off Highland light, Cape Cod, North Atlantic. |
| Port sailed from. | | Liverpool to Newburg. | Sydney, N.S., to Hali- | fax, N.S. St. Lucia, B.W.I., to St. John, N.B. | 341 Buenos Ayres | Alma, N.B., to Syd- | 3t. John, N.B., to St. Martins, N.B., t | 341 St. John, N.B., t. Santos, Brazil. | New York to Cheverie. | 109 St. John's, Nfid., to At sea | iron, 541 71 St. John's, Nfid., to Marine Sydney, C.B. Mary's ron, 28 Victoria, B.C. to Skag- | 117 St. John to New Haven. |
| Register Tonnage. | | | 94.47 | 242 | 341 | 324 | 97 | 341 | 287 | 109 | 541 .71 | 117 |
| How Rigged. Iron or Wood. Steam or Sail. | | edway, Schr., wood, | : | : | : | Brig, wood, | sail. Schr., wood, | : | : | : | | schr., wood, |
| Port of Registry. | | Port Medway, | Hawkesbury, | 6 Windsor, N.S. | 23 St. John, N.B. | : | 16 St. John, N.B. Schr., sail. | = | Windsor, N.S. | Charlotteto'n, P.E.I. | 45 Halifax, N.S. Barque, stram. 30 Victoria, B.C. Schr, | 11 St. John, N.B. Schr., wood, |
| Age of Ship. | Y'rs | : | 18 | 9 | প্ত | 22 | 16 | ~ | 9 | 70 | \$ & | Ħ |
| Name of Ship. | | Nov. 27 Carita. | June 19 Crestline | Nov. 27 Canaria. | June 23 Deerhill | Darpa | Druid | Dec. 12 Dear Hill. | Delta | Feb. 11 Delight | Sept. 13 Delta | Ettie |
| Date of Casualty. | 1898. | Nov. 27 | June 19 | Nov. 27 | June 23 | Sept. 4 Darpa. | Nov. 27 Druid. | Dec. 12 | Nov. 27 Delta 1899. | Feb. 11 | Sept. 13 Delta. | April 4 |

| SE | 551 | UNAL | . PAP | EK | No. | 116 |) | | | | | | | | | | | | |
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| 80,000 | 1,200 | 38 | Partial loss; amount of damage | d. 200 | 1,000 | 1,500 | 200 | 2,000 | 2,500 300 | artial loss; amount of damage | d. 1,080 | Totalloss; amount of loss not re- | 5 | 100 | 300 | 200 | 300 | 1,000 | 1,200 |
| | loss, | ,880 | loss ; of ds | porte loss, | | , 88 | | | | loss of dg | porte | 8; 8I | | 088 | | | | ģ | oss, |
| Total loss, | Partial loss, | Cargo, Partial loss, | rtia.l | not reported Partial loss, | = | Total loss, | = | = | " Cargo | Partial ount | not reported. Partial loss, 1 | otal loss | ported. Total loss | Partial loss, | = | = | Ξ | Total loss, | 2 Partial loss, |
| · To | Pa Pa | <u> </u> | - Pa | Pa | | <u>L</u> | • | | | Pa . | Pa. | . To | i i | Pa | | | | . Tot | 2 Paı |
| <u>:</u> | <u>:</u> | | : | <u>:</u> | : " | | <u>:</u> | | : o of | <u>:</u> | <u>:</u> | : | <u>;</u> | : | : | _ | ÷ 000 | <u>:</u> | |
| : | : | : | torm. | in th | gale of the Z7th inst. Driven ashore in gale of | : | roug | : | ragged anchor and became a total loss in a | gale. Was carried on the island by a strong gale. | . sele | : | OFFE C | ě. | : | f pilc | Damaged, caused hy the big gale of Nov. 27, 1898 | : | heav |
| | : | : | by s | hor | E.E | œ : | t and | : | or an | the gale. | 88 12 | . | oig 88. | n a f | : | ent c | sed to ov. 2 | | d by |
| : | Heavy weather | : | shore | anc | gale of the 27th inst. | Nov. 27, 1898. randed | ırren | : | anch tota | gale. as carried on the by a strong gale. | Gut, Went ashore in a gale | leak | in b 7, 189 | iore i | : | ndgn | , cau | | c a use |
| nded | vy w | ision. | /en a | gged | le of ven a | Nov. 27, Stranded | ng ga | a. Inded | gged me a | le. carri | ıtash | ing a | nded ov. 2 | ıtash | Stranded | rinj | aged ggale | nded. | alty e |
| Stra | Hea | Coll | Dri | Dra | Diri | Stra | Stro | Stra | Drag Ca | Was by | Wer | Spra | Stra | Wer | | Erro | Dam big | Stra | Cassu 88 |
| Portage Island, Stranded | | 416 New York to Halifax, East River, New York Collision. Harbour, American | Coast. Island side Port Hood Driven ashore by storm Harbour, C.B., N.S. | oston, Mass., to St. Salem Harbour, Mass., Dragged anchor in the | Near George's Head, | | nanyport, Me. 32 Pictou to Margaree Margaree Harbour Strong current and rough | 67 Digby to fishing ground North Point Brier Is-Stranded | Grand Beaver Harbour, Bay Dragged anchor and be- | Near Cape Sable Island Lighthouse. | Gut, | Santo Sprang a leak | 49 St. John to Fredericton St. John River, Upper Stranded in big storm of Greenwich, N.B. Nov. 27, 1898. | Minas Went ashore in a fog. | Coast of Nova Scotia | Sorel to Three Rivers, St. Law-Brror in judgment of pilot | : | Western end of Madme Stranded | 289 New York to Halifax Off Cape Sable Island, Casualty caused by heavy N.S. Rale. |
| e Is | an | New Ame | Port | ur, d | e,s | American Coast. ast of Maine | rrbon | orth Point Brier I. | our, | ble I | igby | | er, U | | s So | St. | est. | of Ma | ole Is |
| ortag | Oce | ver,] | ide J | farbc | eorg | Mai | ж Н | Point Bay o | Harl idy. | pe Sa house | le D | Chica, ngo. | Wich, | Bluff, nel. | Nov | ivers | rence River. merican coae | end . | e Sal |
| | antic. | st Ri | Coast. land s Harbo | em F | ar S | Amer ast of | rgar | rth] | saver Has | ar Ca light | st sic | ~. <u>.</u> <u>.</u> <u>.</u> <u>.</u> | Johr | ä | ust of | ee R | erica | estern | S. G |
| n'Bo | 1, At | C, Ea | Isl | r. Sa | Ž. | ⁷ SO | M. | d No | d Be | l-Ne | | to Boca Lou | 3. St. | to Bulls Cha | <u> స</u> | o Th | -An | We | |
| 298 Halifax to Barrington Bon | 173 Liverpool to St. John, Atlantic Ocean | alifaz | 32 Pictou to Margaree | \$ \$ | : | 97 Port Gilbert, N.S., to Coast of Maine. | | troun. | Gran | Shel | 75 Parrsboro' to Annapo-East side Digby | | ricto | | X | rel t | to Wolf- American coast. | : * | lifax. |
| Barr | St. | to H | [arga] | 888. | : Æ | Z, | Me. Iarga | hing | \$ | ಚ | 50 A 1 | D.W.I., | Frede | X.S. | lalifa | | 3 | [alifa | o Ha |
| to to | arino ool t | ork | to M | Ä, | ind, in | Hilber | to Evi | to fial | oro, an. | ster e. | oro' t | ğ | n to] | uth, sboro | E E | al to | S.C. S.S. | E OH | ork t |
| alifax to Bar | ver t | is Ko | ictou | 70 Boston, | John, N.B. 75 Rockland, Me | ort (| Karsport, Me. | igby | 96 Parrsboro' Manan. | 62 Gloucester burne. | rrsb | 107 Aruba, Barb | Joh | 98 Yarmouth, Parrsboro' | 85 Boston to Halifax. | 113 Montreal | Quebec. 77 Boston, U.S., ville, N.S. | 98 Sydney to Halifax | w Y |
| H 86 | 73 L | 16 N | 32 P | 70 B | 75 R | 97 P | 32 P | 67 D | - 1 - 2 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 | 62 G | 75 Pe | 07 A | 49 St | 98 X | -88 -M | 13 M | .77 Bo | 98 Sy | - N - 108 |
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| eel, | οod, | : | : | : | : | : | : | : | : | : | : | : | : | : | : | wood, | ood, | : | : |
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| Schr | υž. | | | | | | | | _ | | | | | | | Tug, | ste Schr sai | | - |
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| aster | rsb | Δ | fax, l | ohn, | rsbo | o e B | fax, l | y, N | rs bo | rican | rsbo | z š | ohn, | rsbo S. | Hay | 2 . 6 3 | rs bo | ey, C | rsbc 3. |
| 6 Lancaster, Eng Schr., steel, | Parrsboro', | 4 | 28 Halifax, N.S. | St. J | Par | Ka Z | Hali | Digb | Par N. | American | Par | 9 Halifax N.S. | St. J | Par N | Port | on Onep | 3 Parrsboro', Schr., w sail. | Sydney, C.B | 6 Parr N.S. |
| 9 | 6 | 4 | 82 | 77 | N. W | : | 88 | 88 | 91 | 9 | | | 14 | 18 | 14 | 14 | ಣ | 83 | 9 |
| : | : | deen | • | : | i | : | : | rton | : | [nnis | : | 8t | : | i | 500 | : | • | oott. | Iew. |
| : | . uc | Aber | | : | field | nond | : | A. Ho | | . M c] | field | န် ငိ | ω. Έ | wart | Youn | 1. | ade. | Abl | R. E |
| press | oluti | Earl of Aberdeen | len : | elyn | May | Rayı | len | w'd. | la Mi | lith N | Мау | nest (| tella | s Ste | nny | rence | æ Tr | rence | rence |
| Sept. 16 Express | 4 Evolution | - E | 27 Ellen | 27 Evelyn 24 St. John, N.B. | 77 E. | 20 E. Raymond Yarmouth, | (FE) | 9 Edw'd A. Horton 28 Digby, N.S | Jan. 7 Ella May 10 Parisboro', N.S. | 14 Edith N. McInnis | Mar. 29 E. Mayfield | Jan. — Ernest de Cost | Nov. 27 Estella R 14 St. John, N.B. 1899. | Sept. 8 Eva Stewart 18 Parrsboro', 1898. | Sept. 20 Fanny Young 14 Port Hawkes. | May 24 Florence 14 Queb | Nov. 27 Free Trade | Jan. 6 Florence Abbott. 1898. | Nov. 27 Florence R. Hew-son. |
| pt. 1 | : | - No 11 <i>b</i> - | ÷ | = | = 34 | - | Dec. | Nov. 1899. | 'n. | - | ar. 2 | an. 1898 | Nov. 2 1899. | kept. 1898. | pt. 2 | 8y 2 | Vov. 2 1899. | sn. 1898. | . v. |
| 3. | - | ž 116- | -13 | | | | Á | Z T | Ĵ | | M | J. | Z | χ ¯ | ž | X | ž | Js 1 | ž |
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STATEMENT of Wrecks and Casualties reported as having occurred to British, Canadian and Foreign Sea-going Vessels in Canadian Waters, &c.—Continued.

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|------------------------------------------------|-------|---------------------------------------------------|------------------------------------------------|--------------------------|----------------------------------------------|------------------------------------------------------------------------|-------------------------------------------------------------------|---------------------------------------------|------------------------------------------|--------------------|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|--------------------------|---------------------------------------------------------------------------------------------------------------------|
| . | 66 | 3,000 3,500 | 115 | ชั | 5,000 | 4,000 | 6,00°, | 2,000 | 15,000 3,000 | | 500 | 1,000 1,000 1,000 | ? ? | <u>@</u> |
| Remarks. | | Total loss, Cargo, | Partial loss, | Slight damage. | Total loss, | " Cargo, | Total loss, Cargo, | Partial loss, | | Total loss. | Partial loss, | Total loss, Cargo, | Partial loss, | : |
| Lives lost. | | : | <u>:</u> | : | <u>:</u> | : | : | <u>:</u> | : | <u>:</u> | <u>:</u> | <u>:</u> | : | ··· |
| Cause and Nature of Casualty. | | to Main-a-Dieu, St. Scat. A heavy strong current | Strong gale | Collided with a barge in | • | St. John, N. B., to New Huntington Bay, Long Stranded in the hurricane | Turk's N'th start, Stream, Became unnanageable in Atlantic Ocean. | came a total loss. Stranded | Became water-logged in bad weather. | Buint | to St. Vineyard Haven, Mass. Ran into during the gale of Nov. 27, 1898. | Parraboro' to St. John. 4 miles from Isle Haute, Sprang a leak and went Bay of Fundy, N.B. down suddenly. | Rough weather. | 99 St. John to Boston, Sheldrake Rock n'r Bass At anchor and was carried Harbour, Maine, U.S. on the rocks by wind. |
| Place where Casualty happened. | | Main-a-Dieu, St. Scat- tarieIsland, C. B., N.S | to West Bay Beach, N.S. Strong gale | : | 140 Gaspé to Cape Cove Cape Despair, Gulf of | St. Lawrence. Huntington Bay, Long | N'th side Gulf Stream, Atlantic Ocean. | Apple River, N.S. | Gulf Stream | | Vineyard Haven, Mass. | 4 miles from Isle Haute, Sprang a leak a Bay of Fundy, N.B. down suddenly | Near Richibucto Light, | Sheldrake Rock n'r Bass Harbour, Maine, U.S. |
| Port Sailed from. Port Bound to. | | | boro', " 75 Parrsboro', N.S. to West Bay, N.S. | = | Gaspé to Cape Cove | St. John, N. B., to New | 99.47 Lunenburg to Turk's Island. | 99 Apple River, St. John. Apple River, N.S. | 1122 Turk's Island to Boston Gulf Stream | 89.77 Laid up | 89 Bristol, R.I., to St. John, N.B. | Parrsboro' to St. John. | 371 Quebec to New York . | St. John to Boston, Mass. |
| Register Tonnage. | | 98.50 | 15 | 1,008 | 140 | 123 | 99 - 47 | 66 | 1122 | 22.68 | 68 | 96 | 371 | 66 |
| How Rigged. Iron or Wood. Steam or Sail. | | Schr., wood, | | Schr., iron, | steam. Schr., wood, | sail. | : | ; | Barque, wood, | B.C. Wood, steamer | , N.B. Schr., wood, | : | Schr., wood, | Schr., wood, |
| Port of Registry. | | 10 Lunenburg, | ac . | : | New Carlisle, Schr., wood, | Que. St. John, N.B. | Lunenburg, N.S. | 9 Parrsboro', | St. John, N. B. Barque, wood, | 74 Victoria, B.C. | St. John, N.B. | 19 Parrsboro'. | (American) Schr., wood, | 8 Yarmouth, Schr., wood, N.S. sailing. |
| Age of Ship. | Y'rs | 9 | 15 | 15 | 1- | 6. | 9 | 6 | 17 | 4 2 | 70 | 19 | 14 | ∞ |
| Name of Ship. | | Galaka | 15 G. Walter Scott. | - Glenlivert | 19 Garner | Greta. | 2 Glad Tidings | 1898. Dec. 21 Garfield White | 1899. Feb. 15 Galatea | 1 Greenwood | 1898. Nov. 27 Georgia E | 1899. Mar. 29 Gleaner | May 17 Geo. L. Colwell. | Jan. 13 G. H. Perry |
| Date of Casualty. | 1899. | Sept 15 Galaka | Oct. 15 | Oct. – | May 19 | | | 1898. Dec. 21 | 1899. Feb. 15 | | 1898. Nov. 27 | 1899. Mar. 29 | May 17 | Jan. 13 |

| SESS | IONA | L PAF | PER | No | . 11b | • | | | | | | | | | | | | | | |
|-----------------------------------------------------------------------|---------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------|----------------------------------------|---------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------|--------------------------------------------------------|-------------------------|-------|--------------------------------------------|-----------------------|------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------------------|------------------------------|----------------------------------------------------|--------------------------------------------|----------------------------------------|---------------------------------------------|
| amount ge not | 300 | 2,000 | 88 | 3 kg | 100 | 2,000 | 350 | 500 1,150 | 2,000 | | at. of port- | t of | <u> </u> | 500 | 1,500 | 450 | | 908 | 200 | |
| of damage not | Partial loss, | : | = ; | Damage triffing. | Partial loss, | = | z | Cargo, | Total loss, | | Partial loss; amt. of damage not reported. | Total; amount of | Partial loss, | Total loss, | Partial loss, | = | Total loss. | Partial loss, | Total loss, | Total loss. |
| <u>:</u> | <u>:</u> | : | <u>:</u> | : | : | : | : | : | : | | <u>:</u> | : | : | <u>:</u> | : | : | : | : | <u>:</u> | <u>:</u> |
| Cuba to Boston, Mass. Near Long Island, U.S. Damaged by heavy seas. | River, Carried under the bridge and dismasted. | Violent gale and thick snow storm. | to Mouth of Flat River, Casualty caused by mis- | Defect in engines which | rnais. | N.S. John to Winthrop Head, Mass., Misjudged effect of tide. | Caught in the gale of | Bay Pier, Driven on Mackenzie's Reef by wind and tide. | Capsized in a hurricane | | Stranded | : | -Bad weather cause of casualty. | Thick fog | New York to Wolfville, Wolfville River, N.S. The vessel fell over at the N.S. | Collision | Stranded. | : : : : : | > | Total loss. |
| Near Long Island, U.S | St. Port William River N.S. | to Near Summerside Har- Violent gale and bour, P.E.I. snow storm. | Mouth of Flat River, | Burrard Inlet, B.C | West Bay, Minas Basin | N.S. Winthrop Head, Mass. | N.S., to St. Off Cape Spencer, Bay Caught in the | of Fundy, Near Glace C.B., N.S. | Off New York | | Pleasant Bay, M.I Stranded | Halifax Harbour, N.S. | Cape Enrage, Chig. Bad necto Bay, Bay of ca | Black Rock, La Have | Wolfville River, N.S. | West Quoddy Light, Collision | Petit Manan Rock, Me. | Tynemouth Creek Bar, | Near Round Island, C.B. | Vessel stranded near the Coast of Maine. |
| Cuba to Boston, Mass. | Port William to St. John, N.B. | Chatham, N.B., to Louisburg, C.B. | N.B., | Liverpool, Eng., to Burrard Inlet, B.C | Parrsboro, N.S., to West Bay, Minas Basin, Strong gale. | West Bay. 118:80 LaHave, St. John to | Sackville, N.S., to St. | P.E.I., | Halifax to New York. | | Gloucester, fishing | Halifax, N.S | Hillsboro', A Co., N.B., Cape to New York. | 36.57 Lockeport, N.S., to Black Rock, La Have, Thick fog | N.S. | St. John, N.B., to West | Port George to Rock-Petit Manan Rock, Me. Stranded | St. Martins, N.B., to Tynemouth Creek Bar, | Doston, Mass. Halifax to Louisburg. | |
| 703 | 22 | 1265 | 35 | 2485 | 55 | 18.80 | 20 | 67 | 149 | | 95 | 233 | 165 | 36.57 | 124 | 8 | 88 | 88 | 36.01 | |
| Schr., iron, steam. | Schr., wood, | : | Schr., wood, | | Schr., wood, | iron, | Schr., wood, | 881l. | | | : . | : | : | : | : | : | : | = | : | |
| 16 Quebec | 12 Parrsboro, Schr., N.S. sail. | Sydney, N.S | Chatham, N.B. | 29 Liverpool, Eng Iron, steamer | Parrsboro', Schr., | N.S. Lunenburg, | Parrsboro', | Charlottetown P.E.I. | Halifax, N.S. | | 7 (American) | British. | New York, U. S.A. | Shelburne | 8 Parreboro', N.S. | St. John, N.B. | Halifax, N.S. | St. John, N.B. | Port Medway, N.S. | Yarmouth, |
| 16 | 12 | 8 | 18 | প্ত | 9 | 6 | 2. | ę | o | | ١- | 6 | 8 | 33 | œ | = | 31 | | 21 | : |
| 6 Greetlands | July 24 Greville 1898. | Nov. 27 Grandee | Sept. 7 Gasper Embree | Garronce | 1898. Oct. 15 Helena M | 17 Howard | Nov. 27 Henry Nickerson | 26 Hydra | Hattie May | | - Hiram Lowell | Nov. 22 Irma | Sept. 22 Joseph Hay | Aug. 20 Jos. C. Morgan | Oct. 17 J. W. Durant | 9 James Barber | Sept. 25 J. N. Fault | Nov. 12 John T. Cullinan. 26 | - John B. Dolliver. 21 | Feb. 21 John D. Payson. |
| Feb. | 11 <i>g</i> | Nov. 2 1889. | Sept | | 1898. Oct | = | Nov. | Dec. | Oct | 1899. | May — 1898. | Nov. | Sept. | Aug. | Oct. | z | Sept. | Nov. | Dec. | Feb. |

STATEMENT of Wrecks and Casualties reported as having occurred to British, Canadian and Foreign Sea-going Vessels in Canadian Waters, &c.—Continued.

| | | | | | | | | | | 63 | VIC. | TORI | A, A. | 900 |
|------------------------------------------|------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------|-------------------------|------------------------------------------------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------|-------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------|
| | se. | 2,800 | 34,000 | amt. | 400 | 1, 26, | 1,500 | 9,000 | nount not re- | | 6,000 | 2,500 | 125 | 2,000 |
| Remarks. | | Total loss, | Total, | Partial loss; amt. of damage not reported. | Total loss, | = | Partial loss | Total loss | Partialloss, amount of damage not re- | Triffing loss. | 6 Total loss, | . Total loss, | Partial loss, | Partial loss, |
| Lives lost. | | | : | | | : | : | : | : | : | | : | : | : |
| Cause and Nature of Casualty. | | rne, Schr., wood, 96:43 Lockeport, N.S., to 20 miles from Scatarie Foundered in heavy sail. | Swung on the rocks | burne, N.S. Bulan, Phillipine Isl'd Banco Island, China Sea Gale and shallow water. to Liverpool. | Whitehead, N.S., to 7 miles from Liscombe Struckasubmerged object Halifax. | Stranded | Supposed to have struck | Ran ashore | Stranded in a fog | Foundered | Supposed to have capsized | Front. to Perry Gleason's Cove, Perry Draggedanchorsandwent River, Maine, U.S. ashore in the big gale of S. | Nov. 21, 1895. Heavy weather carried away head-gear and did | Stuck on a reef |
| Place where Ca-ualty happened. | | o'20 miles from Scatarie Island, N.S. | Buffalo, U.S., to Shel-Yarmouth Harb., N.S. Swung on the rocks. | Banco Island, China Sea | 7 miles from Liscombe Light. | Halifax to Yarmouth. Coast of Nova Scotia, Stranded | | Miragoane to New York White Cay, Bahamas. Ran ashore | 2635 London to Montreal to Red Island Reef, River Stranded in a fog St. Lawrence. | Harte Schooner, iron, 1,913 New Castle to Montreal Gulf of St. Lawrence, Foundered | Black River, Jamaica, Gulf of Mexico | Gleason's Cove, Perry River, Maine, U.S. | St. John, N.B., to Bos-Head gear lost near Heavy weather ton. Mass. | Bay Verte Reef |
| Port Sailed from. Port Bound to. | | Lockeport, N.S., to Halifax, N.S. | Buffalo, U.S., to Shel | | Whitehead, N.S., to Halifax. | Halifax to Yarmouth. | Cardiff to Hong Kong. | Miragoane to New York | London to Montreal to London. | New Castle to Montrea | Black River, Jamaica | to City Parrsboro' Maine, U. | St. John, N.B., to Boston, Mass. | 970 Loading deals at Bay Bay Verte Reef |
| Register Tonnage. | | \$ 7 .95 | 617 | 1295 | 35 | 43 | 1447 | 379 | 2635 | 1,913 | 124 | 92 | æ | 970 |
| How Rigged. Iron or Wood. Steam or Sail. | | Schr., wood, | Steamer | N.B. Ship, wood, sailing. | burg, Schr., wood, | uth, Schr., wood, | sail. | Bktn., wood, | sail. Schr., steel, steamer | Schooner, iron. | oro', Schr., wood, | sail. | : | Bktn., wood, |
| Port of Registry. | | 13 Shelburne, N.S. | 10 (American) Steamer. | 20 St. John, N.B. | 23 Luneuburg, | Yarmouth, | 19 Windsor, N.S. | = | Glasgow | West Harte- | pool. Parrsboro', | : :: :: :: :: :: | St. John, N.B. | 27 (Russian) |
| Age of Ship. | × | | 10 | 8 | য় | 2 | 19 | 15 | : | : | 23 | ro | rc | 23 |
| Name of Ship. | | Jan. 29 Jersey Lily | Jan. 20 Josaphine. | Sept. 11 J. V. Troop | June 11 Juventa | July 15 L. C. Haley | April 8 Loanda | Aug. 25 L. M. Smith | June 20 Livonian. | Lobelia | 1 Lakota | Nov. 27 Levuka | Lena Maud | Lima |
| Date of Casualty. | 1800 | Jan. 29 | Jan. 20 | Sept. 11 | June 11 | July 15 | April 8 | Aug. 25 | June 20 | | Oct. 1 | 64 | = | 11 |

| SESSIONAL | PAPER | No. | 11b |
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| SES | SIONA | L PAF | PER | No. | 11k | • | | | | | | | | | | | | | | |
|--------------------------------------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|------------------------------------|---------|--------------------------------------------------|----------------------------------------------------|-------|--------------------------------------------------------------------|-------|-----------------------------------------------|--------------------------------------------------------------------|------------------------------------|--------------------------------|---------------------|-------------------------------------|---------------------|--------|-----------------------------------------------------------------------------------|------------------------------------------------------------|
| , 1,200 | amount not re- | 2,000 | 1,000 | amount not re- | | amount not re- | 600 | | | | amount lty not | amount e not re- | 1,600 | 8,000 | 88 | 3, | amount not re- | | 1,000 | amount not re- |
| Partial loss, | Total loss, amount of loss not reported. | Total loss, Cargo, | Total loss, | Total loss, of loss | ported. | Total loss, amount of loss not re- ported. | Partial loss, | | Partial loss. | | Partialloss, amount of casualty not reported. | Partialloss, amount of damage not re- | Pot ved. Total loss, | Total loss, | Total loss, | Total loss, | Total loss, of loss | in and | Total loss, | Total loss, of loss ported. |
| - | : | 7 FO | : | : | | : | : | | - - | | - | | <u> </u> | : | : | : | : | | ₩ | |
| ÷ | : | ap- or | and | <u> </u> | | : | : | | <u>:</u> | | ong. | ÷ | : | : | : | : | : | | and | ausing badly. |
| : | | ve c | | | | : | : | | ÷ | | ystr | | : | | : | : | : | | fog | caug |
| : | : | n ha | t E | ank. | | : | : | | : | | sed b | : | : | : | | : | | | thick | reef leal |
| <u>.</u> | hore. | be in | i. | and x | | : | 9d | | gu | | y cau | ıter. | ed | : g | ed.: | | | | ed in | ruck on a reef, c vessel to leak Abandoned. |
| llisio | se H | ipposed to have sized in a squared | rande | roggy weather. Filled and sank. | | : | rand | | randı | | sualt tide. | Α . | Stranded | Stranded | Stranded | | | | cranded in the | Struck on a reef, causing vessel to leak badly. Abandoned. |
| <u>S</u> | Ran ashore. | ar Su | Cape Stranded in thick | <u> </u> | | · · | <u>x</u> | | e, St | | Narrows, Casualty caused by strong tide. | ë ë. L | <u>.</u> | <u> </u> | | ÷ | _ <u>:</u> | | 30. 30. | |
| , U. | s. | N.S. | | : | | , River | S.N. | | 30uc | | r o w | chelieu Rapids, St. Lawrence River, Que. | : | : | \mathbf{c} | : | | | lack Rock entrance to Great Bras d'Or N S | |
| Таvел | Ze, N | to b Ibr., | from | ፭ : € . | | iver du Loup, St. Lawrence. | Mary | | ur 1 | | Z r | Rapi e Riv | Beac | : | st of | nd. | بر بر | | k ent | Sea |
| ard I | Georg | se:l ver F | iles | | | du] Lawi | St. 1 | | Harbo | | | lieu /renc | uche | does | Cos | e Isla | Islar | | Roc. | bean |
| /iney | Ape (| uppo Bea | u f | more: | | River du Loup, St. Lawrence. | Parrsboro to Yarmouth Cape St. Mary, N.S. Stranded | | E.S. | | Vancouver to Wrangle. Wrangle Alaska. | Siche Law | Sydney to Chatham Buctouche Beach. | 3arba | South Coast of U.S. | Sydney, C.B., to Wine Wedge Island. | Sable Island | | Black Rock entrance to Stranded in thick fog and Great Bras d'Or N S strong tide. | Caribbean Sea. |
| lle, 7 | ier- | rtia | at-1 | : | | | uth (| | yd-C | | gle. | l to F | - | Is- | : | ine. | : | | : | <u> </u> |
| /olfvi | 증정 다. | lacer | C C | 08 | | | armo | | S S | | Vran | ntrea | tham | \mathbf{Ship} | | to ₩ | | | lifax. | : |
| to M | r.S., n, P. | g to P ld. | s; | Çanı | | | to Y | | | | r to V | Moi | Cha | k to | | .B., | <u>.</u> | | Ha] | · · |
| York | ey, N tetow | nbur y, Nf | Z; | ax to | | : | sboro | | ictou, N.S | | ouve | ondon to London. | iey to | Yor | epor | ley, (| narcour. ishing | | ey t | adoe |
| New York to Wolfville, Vineyard Haven, U.S. Collision. | Sydney, N.S., to Char. Cape George, N.S. lottetown, P.E.I. | Lune | Picto | ham, N.B. Halifax to Canso | | : | Parr | | Pictone. | | Vanc | Lond | Sydn | New York to Ship Is- Barbadoes | 2.99 Lockeport | Sydr | Fishing. | _ | Sydney to Halifax. | 144 Barbadoes |
| 131 | 33 | 97-45 Lunenburg to Placentia Supposed to be near Supposed to have cap- Bay, Nfd. Beaver Hbr., N.S. sized in a squall or | 56:61 Pictou, N.S., to Chat- 13, miles from | 37 | | : | 88 | | 82.59 Picton, N.S., to Syd-Off Harbour Bouche, Stranding ney, C.B. | | 1672 | 4755 London to Montreal to Richelieu Rapids, St. Low water London. | : | 787 | 2.99 | 99 | 82 | | 6 6 | 144 |
| , o d, | : | : | : | : | | : | od, | _ | : | | iron, | eel, | : | od, | od, | od, | : | | : | : |
| | . : | = | z | = | | : | , w | | = | | oner, | steamer. | | .÷- | . ¥ | steamer. | _ = | | = | = |
| Schr. | (British) | | | | | : | Parrsboro', Schr., wood, | | | | pool, Schooner, iron, steam. | Schr., steel, steamer. | 7, N.S. Sailing | in, N.B. Bark, wood | Schr., wood | steamer. Schr., wood, | 185 | | | |
| oro, | : | : bo | x, N.S. | : | | : | oro', | | n burg, | | ool, | : | 82 | N.B. | nburg, | S.S. | п) | | | town |
| rsb | ish). | npar | ax, N | = | | | rsb | 5 | en b | | | = | ey, D | ohn, | enk | fax,] | erica | | iey, l | Sotte E.I. |
| Par | Brit | Lunenburg | Halifax | | | 3ueb | Par | | Cun N.S | | 23 Liver Eng. | | Sydn | St. Joh | Lun | A Halifax, N.S. | (American) | | Sydney, N.S | 15 Charlottetown P.E.I. |
| 2 | | ಣ | 17 | Si | | Quebec | 16 | | 18 Lunen N.S. | | क्ष | 115 | : | ध | ∞ | ₹. | : | | 88 | 15 |
| : | | : | May 10 Lady Speedwell 17 | : | | : | : | | - 4 | | : | : | M. E. Jackson Sydney | : | : | : | : | | May 13 Matilda Hopewell | : |
| В | : % | | seed | | | rah. | : | | Smit | | | : ee | scks | 9 | ower | et J. | : | | Hop | |
| onarc | uren | ader. | dy Si | zie N | | rie Sa | linda | | ggie | | nauei | wan | Ę | stletc | May Flower. | Margaret J | arine | | atilds | ary I |
| Dec. 27 Leonard B | 12 Laurence | Jan. 14 Leader | 0. 4. | July 28 Lizzie M | | Oct. 19 Marie Sarah | Aug. 6 Melinda | | Sept. 19 Maggie Smith | | Sept. 30 Manauence | 8 Milwaukee | <u>M</u> | Nov. 23 Mistletoe | -Wa | | Mariner | | 13 M | Feb. 16 Mary P. |
| ec. | ". 1899. | in. | ay 1 | ily 2 | 1897. | et. 19 1898. | ⊸ <u>S</u> io | 1898. | λt. 13 | 1898. | pt. | | ا بيد | .v. | Feb | Dec. | | 1899 | ау | . |
| Ä | | Js | M | Ju | - | ° ° | Ψn | 1 | Š | 7 | Se | July | Oct. | ž | Ŗ | Ă | : | | Z | Ŗ |

STATEMENT of Wrecks and Casualties reported as having occurred to British, Canadian and Foreign Sea-going Vessels in Canadian Waters, &c.—Continued.

| | | | | | | | | | | | ICTO | | . 1900 |
|------------------------------------------|---------------------------------------|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------------|-------------------------------------------------|---------------------------------------------|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| ks. | 60 | 100 | 200 | 5,000 | 3,000 3,000 | 2,700 | ર્લ | | 4,8 9,000, | , 1,700 | 2,000 | 7,700 | amount not re- |
| Renarks | | Partial loss, | Partial loss, | Total loss | Total loss, Cargo | Partial loss | Total loss, Cargo, | Partial loss, | Total loss, Cargo, | Partial loss, | . Total loss, | : | Total loss, amount of loss not reported. |
| Lives lost. | | | <u>:</u> | : | _ : _ : | : | <u>:</u> | : | : | <u> </u> | : | <u>:</u> | |
| Cause and Nature of Casualty. | | Heavy gales | 85 River Herbert to Parrs- Mouth of Aulac River, Wind died away and vesboro', N.S. Cumberland Bay. sel caught on bank and filled with water. | Foundered | burg to Ponce, P. Rico. 116 13 Lunenburg to Magda- 2 miles south of Entry Struck the ice and found- len Islands. Island. Magdalen Is- ered. | lands, G.St. Lawrence New York to Windsor, North side of Briar Is. Went ashore | 110 Harvey, N.B., to New East side of Vineyard Stranded in heavy gale of Vork Vork | Sprung a leak | Foundered | <u>ت</u> ح | erwards drifted off. | St. Fire orth | Stranded |
| Place where Casualty happened. | | North Atlantic | Mouth of Aulac River, Cumberland Bay. | North Atlantic Ocean. | 2 miles south of Entry Island, Magdalen Is- | lands, G. St. Lawrence North side of Briar Is- | land, Bay of Fundy. East side of Vineyard Haven, Mass. | 140 miles S.E. of Bermuda, N. Atlantic. | : | Salter's Point, Diligent C River, Minas Gut, | N.S. to St. Peter's Island, N.S. to | Hilyard's Blocks, St. John, N.B., North | End. On bar in Louisburg Harbour, N.S. |
| Port sailed from. | | 170 Macoris to New York. North Atlantic | River Herbert to Parrs- boro', N.S. | 135 Lunenburg to Lunen-North Atlantic Ocean. Foundered | burg to Ponce, P. Rico Lunenburg to Magda-len Islands. | New York to Windsor, | N.S. Harvey, N.B., to New Vork | 153.71 Lunenburg to Ponce, 140 miles S.E. of Ber-Sprung a leak. muda, N. Atlantic. | 98.93 Boston to Shelburne At sea | Diligent River, N.S., to West Bay, N.S. | Gloucester, U.S., to Louisburg, N.S., to | Gloucester, U.S. Vessel was laid up for Hilyard's Blocks, repairs at St. John, John, N.B., No | Ectown Schr., wood, 77.72 St. Pierre to Souris, On bar in Louisburg Stranded sail. |
| Register Tonnage. | | | | | 116·13 | 202 | 110 | 153·71 | 86.86 | 35 | 8 | 201 | 77.72 |
| How Rigged. Iron or Wood. Steam or Sail. | | outh, Schr., wood, | sail. | = | = | : | : | : | : | = | : | Wood'n steam- er. | Schr., wood, sail. |
| Port of Registry. | | Yarm | N.S. St. John | Lunenburg, | Z S | 10 Windsor, N.S. | St. John, N.B. | 2 Lunenburg, | : | 39 Parrsboro', | 28 Gloucester, | 21 St. John, N.B. Wood'n steam- er. | 14 Charlottetown P.E.I. |
| Age of Ship. | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | 9 | 15 | 4 | 73 | 10 | 33 | 23 | 15 | | | 21 | 14 |
| Name of Ship. | | Feb. 11 Melbourne | " 18 Myrtle Purdy | Sept. 16 Nevada | 8 Nyanza | Aug. 17 Newburgh. | Nov. 27 Nellie Doc | 12 Norka | 27 Narcissus | 1899. July 19 Nancy Anna | Sept. 22 Oliver Eldridge . | Nov. 30 Olivette. | 7 Orion |
| Date of Casualty. | 1800 | Feb. 11 | . 18 | Sept. 16 | May 8 | Aug. 17 | Nov. 27 | " 12 | 27 | 1899. July 19 | Sept. 22 | Nov. 30 | 1899. Jan. 7 |

| SESS | SION | AL P | APER | No. | 11b | | | | | | | | | | |
|------------------------------------------------------------------------------|---------------------------------------------|-----------------------------------|---------------------------------------------|-----------------------------------------|-----------------------------------------|----------------------------------------|----------------------------------------|--------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|------------------------|
| 1,000 | 200 | amount not re- | 6,000 4,600 | $\frac{3,000}{1,000}$ | amount not re- | mount not re- | unount not re- | 1,000 | 9,000 | 300 | 200 | age. | 250 | 1,500 13,850 500 | amount not re- |
| Total loss, Cargo, | Partial loss, | loss, | ported. Total loss, Cargo, | Total loss, Cargo, | loss, loss ted. | Partial loss, amount of damage not re- | Partialloss, amount of damage not re- | Partial loss, | = | Total loss, | ial, | Triffing damage. | Partial loss, | Total loss, Cargo, Partial loss, | loss, loss |
| Total le | Part | | Total l Cargo, | Total le | | Part of | Part of | Part | | Tota | Partial, | Trif | Par | Total le Cargo, Partial | Total of por |
| : | : : | | <u>:</u> | <u>:</u> | | : | <u>:</u> | : | <u>:</u> | : 7070 | | <u>:</u> | <u>:</u> | <u>; ;</u> | <u>.</u> |
| mai | e gale | i | hear | : | : | ісапе | ind. | ed log | image d log. | caused g and | teame | collision kri. | : | caused by the Nov. 27, 1898. | |
| oroke om. | ing th | · | t been ing. | : | : | , hurr | hirlw | merge ay one | ner as nerge | g ice ca drag | the s | in oc remski | ⊕ r | sed 27, | . 27, |
| d; l | dur 97 | , : | as no se sail | : | : | d in 8 | y a w | dus r | nd ot | hiftin ner to sank | with | s. Ch | veath | | NoZ : |
| Cape Breton coast, Stranded; broke main Louisburg Light, N.S. and fore boom. | to Vineyard Sound, U.S. Run into during the | White Stranded | Vessel has not been heard of since sailing. | Reef, Stranded | = | Damaged in a hurricane. | Struck by a whirlwind. | Struck a submerged log, carrying away one of the | noats and other damage. Struck a submerged log | eavy drifting schooner to finally sank. | ollided w Cunaxa. | Foundered in co with ss. Chemski. | Heavy weather | f Fundy. Haven, Collision, caused by the gale of Nov. 27, 1898. nd. U.S., Dragged anchors in the | gale of Nov. 27, 1898. |
| S. St. | 3Ru | te Str | <u>×</u> | ef, St | e j . | | .t. | : <u>x</u> | ay Sti | H. | ကိ | ೯ ೮ | ıt, H | <u>လို့ ကို</u> | <u>,</u> |
| coa. ht, N. | , U.S | Whi | | etit Manan Reef, Maine, about half a | mile from Lighthouse. Whitehead, N.S | : | 0°20'. | : | bt, B | r, P.E | iiRiv | I.ake, | miles south-east from Apple River Light, | Fund fave f. U.f | Island, Canso, |
| eton g Lig | Sounce | from ght. | ific | Manan e, about | Ligh N.S. | antic. | Atlantic, ', long. 70 | : | y Lig | rrbou | amic | Arrow | ath-eg River | Bay of ard H U.S. | land, |
| Br iisbur | yard 5 | yds. | h Pac | Me, 8 | e fron ehead | h Atl | orth Atlantic, Ls 24°30', long. 70°20' | : | ear Digby | te H | eMir B. | | es sor | S., Be eyar | . so |
| Cape | Vine | 300 yds. from Head Light. | Nort | Petit Ma | = | to North Atlantic | Nort 24° | : | to Near Digby Light, Bay | Pine | In the N.B. | <u> </u> | 6 mil | all Vineyard Haven, Mass., U.S. | Hart's N.S. |
| : | - | : | | John. | 3 | | New | y of | \$ | inter. | poo | ; ah. |). arba- | Fall | |
| = | N.B., | alifax | : | St. | C.B. | Nfd., co. | I., to | t, Bay | N.B. | for w | leetw | B.C. | , B.C. , to B | B., tr ∏. | |
| | John, | tepor to H | в, В. | ork te | ouisburg, C.B., Halifax, N.S. | . John, Ni Pernambuco. | , w. | Ligh ly. | hn. | d a | to F | to Sg head, son, | whea N.S. E.W. | n, M. Vork | fax, N |
| = | St. | Bridgeport. Sydney to Halifax. | Victoria, B.C North Pacific | New York to St. John. Petit | Louisbu rg, Halifax, | St. Jo Pern | Antigua, W.I., to New North York. | Digby Light, Fundy. | St. John, N.B. | Digby, A.D. Ship laid up for winter. Pinette Harbour, P.E.I Heavy drifting ice caused schooner to drag and finally sank. | Shields to Fleetwood In the Miramichi River, Collided with the steamer N.B. | Boston to Savannah Arrowhead, B.C., to Roleson, B.C., to | Arrowhea 1, B.C. Shulee, N.S., to Barba-6 miles south-east from does, B.W.I. Apple River Light, | St. John, N.B., to Fall Vineyard River, Mass. Mass. U.S. Naw. Vork. IIS, to Vineyard Son. | Halifax, N.S. |
| 77.72 | 124 S | 107 S | A 99 | 135 | 107 I | 231 S | 578 A | 620 D | S 029 | 85 25 | 1852 S | urg, ver, Wood, steam, 531.50 Arrowhead, Roleson, | 115 S | 123 | - |
| : | : | : | | : | • | : | o d, | e 1,— | : | , d, | | | o ď, | : 7 | |
| = | = | = | = | : | = | : | ng. | ste m. | = | wood, | , ste | , ste | wood, | : 70 | |
| | | | | | | | Bktn., wood, sailing. | Schr., steel, steam. | | Schr., sail. | Bktn., steel, | Wood | Schr., | Blets | Halifax, N.S. |
| : | Z. | urg, | B.C. | S.S. | urg, | N.S | S. | : | : | | • | urg, | S.S. | N.B. | . v. |
| = | Windsor, | en bi | | | enb S. | rpool | dsor, | o n. | | Arichat, N.S | : uo | S. cou | | ohn,] | N.S. Halifax, N.S. |
| | Win | Lunenbu | 19 Victoria, | Windsor, | 16 Lunenb N.S. | 44 Liverpool | 12½ Windsor, | 5 London. | = | Arich | 4 London . | Lunenbu N.S. 1 Vancouv B.C. | 17 Windsor, | 16 St. John, | H H |
| 10 | • | <u>:</u> | 13 | 6 | 16 | | 12} | | 20 | ន | 4 | | 17 | | |
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| : | : | E | | | : 4 | | ÷ | Rup | \mathbf{Rup} | : : | : | T | св W | 5 | 3W |
| 3 Orion | efett | arisia | ionee | efetta | urisia | 8 Potance | 5 Persia | rince | rince | 12 Pioneer | epton | 4 R. L. T 8 Rossland | Sebeca | Z7 Rondo | 27 Renfrew |
| <u> </u> | 1898. Nov. 27 Pefetta . | Dec. 16 Parisian | Sept. 27 Pioneer. | 1899. Feb. 1 Pefetta | 1898. Dec. 16 Parisian | | | Sept. 25 Prince Rupert | April 24 Prince Rupert | 12 P | July 15 Repton | 4 8 H | Nov. 27 Rebecca W | 27 29 | 8 12 |
| = | 185 Nov. | Dec. | Sept. | 1899 Feb. | 1898. Dec. 1 | Feb. | May | Sept. | April | - 1898 | July | sept. | Nov. | = | = |

STATEMENT of Wrecks and Casualties reported as having occurred to British, Canadian and Foreign Sea-going Vessels in Canadian Waters, &c.—Continued.

| | | | | | | | | | 6 3 | VIC | TOR | A, A. 1900 |
|--------------------------------------------|-------|--------------------------------------------------------|----------------------------------------------|---------------------------------------|-----------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------|----------------------------------------------|--------------------------------------------------|-------------------------------------------------------------|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | 1,000 1,145 | $^{2,000}_{420}$ | ount re- | ount t re- | 100 | jo tod | 202 | 125 | 300 | amount not re- | 400 1,000 3,000 |
| ırks. | ₩. | | | Partialloss, amount of loss not re- | Ported. Partialloss, amount of damage not re- | s, | Total amount of | 8, s | | | | |
| Remarks | | loss, | al loe o, | allos loss | ported. artial los of dama | al log | an | al lo | E | l loss, | otal loss, of less | ported. Partial loss. Cargo, Partial loss, |
| | | Total loss, Cargo, | Partial loss, Cargo, | Parti of | Parti of c | Partial loss, | Total | Partial loss, | | Total loss, | Total of | ported. Partial loss, Cargo, Partial loss, |
| Lives lost. | | : | : | : | | : | : | : | : | : | • | |
| | | : | : | : | Ortez | h of | . : | : | : | : | _: | K |
| y. | | : | : | : | the (| mout er by | raft | • | : | : | , | ik fog by h |
| Cause and Nature of Casualty. | | | : | ther | n t | at le Riv | inst a | • | : | ther. | : | ı thic hore |
| and Ca. | | y gale | ded . | h wea | nded 1k. | aniaged at mouth of Minasville River by run- | ning against a raft. urnt | ale | fog: | h wea | ded . | ion in in as e. |
| | | Неау | Stran | Rough weather. | Ground Bank | Dame Mir | Burn | Big g | Thick | Roug | Stran | Collis Drive can |
| | | to Near Thatcher's Island, Heavy gale. North Atlantic. | Creek, St. Stranded | : | Grounded on the Ortez Bank. | West Minasville River, Minas Damaged at mouth of Basin, N.S. Minasville River by run. | ning ag Chesapeake Bay, U.S. Burnt | Philadelphia to Cape Atlantic Ocean Big gale | Harford to St. John, Point Jude, Rhode Thick fog | Pugwash, N.S., to Mar. Margaree Harbour, N.S Rough weather. | to mile from Baccaro Stranded Light House, N.S. | St. John, N.B., to Partridge Island, Bay Collision in thick fog Digby, N.S. Savannah to St. John, Quarantine Station, Driven ashore by hurri N.B. Georgia, U.S. |
| Place where Casualty happened. | | r's Isl ntic. | reek, | : | 3. A | ver, M | ay, L | : : | Кh | bour | Bac e, N. | and, stat Ri |
| Place here Casua happened. | | ear Thatcher's Is North Atlantic. | S S | : | ate, S | le Ri | rke B | Ocea | ude, | Han | fron | or Fundy. Jarantine St. Savannah. Georgia, U.S. |
| wher | | ır Th Iorth | rdner John. | | er Pl | inasville Ri Basin, N.S. | ades | antic | nt J | gare | aile ight | tridg Fun tranti avani eorgi |
| | | N Nei | ı, Gar J | Savannah to Queens- At sea town, Ire. | to River Plate, S.A. | t Mir | 5 | e Atl | , Poi | Ma | uΠ ₹ | O Par C Sign |
| om. 20. | | | Johr | neen | | ., Wes | : | Cap | Johr | o Mad | | ³., t John |
| Port sailed from. Port bound to. | | N.B., Iass. | St. | ۍ ک | Fla., yres. | to sborc | : | to to | $\ddot{\mathbf{s}}$ | x. | $\mathbf{z}_{\mathbf{x}}^{\mathbf{z}}$ | S.S.H. |
| t sail rrt bo | | . John, N. Boston, Mass. | ig at on. | tvannah t town, Ire. | - | ille Parr | ork. | alphis | ਯੂ. ਯੂ. | sh, N | ville, | ohn, y, N. ah ta |
| Por Po | | Bost | oading Boston | vann town | ensac Buen | Minasville to Bay, Parrsboro'. | New York | hiladel | artfo | Igwal | garee, N.S. Louisburg, N.S., Wolfville, N.S. | Joseph Digb Ivann N. B. |
| Register Tonnage. | | 90 St. John, Boston, M | 99 Loading at St. John, Gardner's Boston. | 404 S | 1156 Pensacola, Buenos A | 88. W | N 861 | 1011 P | | 2; A | 7 98 | 45 St. John, N.B., to Partridge Island, Bay Collision in thick fog. Digby, N.S. of Fundy. 299 Savannah to St. John, Quarantitine Station, Driven ashore by hurri-Savannah. River cane. Georgia, U.S. |
| ed. od. | | o d, | : | ن :- | -, poo | o d , | : | Parrsboru', Bk., wood, sail 1011 | o d, | : | : | |
| Rigg | | w 0 | : | , woc | e, wenge. | o w | : | ,000 | о ж | = | ner | ò * <u>.</u> |
| How Rigged. Iron or Wood. Steam or Sail. | | chr., sail. | | 3ktn. | Sarque, v | sail. | | 3k., " | chr., | san. | chool | chr., sail. |
| | | St. John, N.B. Schr., wood, sail. | : | Charlottetown Bktn., wood P.E.L. | 16 Maitland, N.S. Barque, wood, salling. | N.S Schr., wood, sail. | Anna polis, | ro', J | m, N.B. Schr., wood, | S. | Windsor, N.S. Schooner | N.S Schr., wood, sail. town, " |
| Port of Registry. | | hn, D | = | ottete . I. | and,] | Z. | a po | s po | hn, D | X, N | sor, 1 | N.S. eto bado |
| 28 | | St. Jo | | Charl P.E | Maitl | Truro, | Ann | Parr No | St. Joh | 29 Halifax, N.S. | Wind | Digby, N.S Bridgetown, Barbadoes. |
| Age of Ship. | Yrs | £1 | п | 6 | 16 | 12 | 9 | 13 | . 62 | - 62 - 7 | - | 81 41 |
| ii. | | : | : | : | : | | : | : | : | : | : | : : |
| is jo | | : | n o | | row. | • | loah | na | [aud. | Bird. | | loud. |
| Name of Ship. | | \$: | Cars | mon | Mar | wena | enanc | daco | lla M | ring l | ashin | ver C |
| 4 | | Mar. 8 Roy 1898. | Mar. — R. Carson | 1899. Jan. 25 Ramona . | Mar. 21 R. Marrow | Sept. 7 Rewena | 1898. June — Shenandoah | Aug. 10 Stadacona. | Sept. 4 Stella Maud. | 10 Spring Bird | Oct. 17 Sunshine | 24 Silver Cloud |
| Date of Casualty. | 1899. | L ar. 1898. | (ar | 1899. an. 2 | lar. 1 | ept. | 1898. une - | ug. 1 | ipt. | - | ct. 1 | Arg. 2 Oct. |
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| SESS | | IAL | PΑ | PER | No. | 11b | | | | | | | | | | | | | | |
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| ount ot re- | 900 | amount | 5 | 3,000 | | ount ot re- | 900 | 000 | <u> </u> | 000 | casualty, d to be a | | 9,500 360 | 100 | 150 | 100 | amount | pount port- | 2,1,300 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,00 | B |
| oss, an nage n | loss, | | | | | oss,an | _; æ̂ | oss, | | ź. | cast sed to | OSS. | ž, | oss, | | | " amount damage not | ed. ss, an not re | , 88 88 | |
| Partialloss, amount of damage not re- | Partial loss, | Total loss, | or ross ported. | Tôtal losk, | | Partialloss, amount of damage not re- | ported. Total loss, | Partial loss, | Cargo, | Total loss, | Serious casualty, supposed to be a | total loss. | Total loss, Cargo, | Partial loss, | ī | = | of da | ă~;~ | Fotal loss, Cargo, Total loss, Cargo | , 00 10 |
| <u>a. </u> | <u></u> | Ţ, | _ | Ĕ. | | <u>a:</u> : | 2 Tc | <u></u> | <u>ల్</u> : | ŭ. | <u>x</u> | | <u> </u> | | | : | : | <u>- 6</u> | <u> </u> | 3 |
| avy. | ion, | ing. | | into | hor | | and | oys | : | seel | : | | : | -: | | | - <u>:</u> | sea. | pm | - |
| in heavy | collision, | ng car hile be | | atten up j | on Gr he and | eady. Id stra | | by bu | | nd ve | : : | | | : : : | : | nall. | room. | r and vessel | wind. | |
| aleak | .E - | caused by strong current arted chains while being taugh | | isstayed while atte ing to work up Clark's Harbour | went on shore on Green Island before the anchor | could be got ready. Parted cables and stranded. | wear | Casualty caused by buoys being taken up and not | | hains parted and | | | : | the ic | | n a sq | h sea | Rough weather and caused the vessel | Spring a leak. Strong tide and wind Sprang a leak and for | |
| | Damaged | caused printed cha | ¥eq. | tayed t to ark's | ent on land b | uld be ed cal | jo ss | ick sn ialty c ing ta | repiaced. randed | ns par | nged. | | = | ght in | = | ized i | enong | ough we | spring a leak, rong tide and prang a leak a | į |
| Sprang gales. | _ | Part | 3 | .ž.EC | ¥ = | <u> </u> | Stre | Car See See | -Stra | Chai | Stra 5 | | | Can | | fCape | , Not | Rou | Spra Spra | <u>.</u> |
| : | N.S. | St. Alaskan waters, North Parted chains while being | | r Cap | | x | Halifax Harbour, N.S. Stress, of weather | Sagua, | to Parrsboro' River, mid-Stranded. | to Boston Harbour, Mass., Chains parted and vessel | Seals Cove, Newfound Stranded land. | | astern side of Fisherman's Island, United | Bay o | Island | Ports Off Isle Haute, Bay of Capsized in a squall | Havana, Not enough sea room. | : | ge-Coast of Guysboro'Co., Strong tide and wind N.S. N.S. Strong Low Point, Sprang a leak and found- | ر, اد در |
| ific | Island | aters, | | nd, ner land. | | Apple River, N.S | arbou | of | Rive and B | rbour, | , Nes | | le of land, | aute, | er's | aute, | t H | : | uysbor Low | 200 CE |
| th Pac | cer's | askan w | i i | n Islan ble Isl | | le Riv | fax H | ntrance Cuba. | sboro' | Minas, N.S. Ston Harbou II e | | | man's Island, | H Isle Haute | Spend | sle H | r undy. ntrance Cuba. | : g | st of G S. iles off Brefs | Dig |
| North Pacific | Sper | Alas | بر | ree Sa | | Арр | Hali | Entr | Parr | Boston | Seals (| | East mg | | Off | | Entr Cu | Atse | S N N | <u>ن</u> |
| : | North Sydney to Wind-Spencer's Island, N.S | to St | | Wallace, N.S., to Bos-Green Island, near Cape Misstayed while attemption, U.S. Sable Island. Sable Island. Clark's Harbour and | | : | : | Philadelphia to Sagua, Entrance Cuba. | | X. | E | | Cheverie to Weymouth Eastern side of Fisherman's Island, United | North Head to Parrs. Off Ble Haute, Bay of Caught in the ice. | St. John, to Spencer's Off Spencer's J | Ports | Sabane la Mar to New Entrance York, | Florida, At sea | Lunenburg to George-Coast of Guysbono'Co., town. N.S. North Sydney to St. 3 inlies off Low Point, | |
| : | ney to | | | χ. Σ. | | bour. | 30 | ia to | N. N. S. | ort. N | Bost. | | Wey | g to | to Sp | , rarrsporc Bay to | . Day. Mar to | | to G Iney | |
| : | h Syd | sor, N.S. Vancouver | cuaeix | ace, N | | s Har | Halifax, N.S | niladelph Cuba. | Parrsboro', N.S., Hillsboro', N.B. | Clements Port, N.S., | Antwerp to Boston | | erie to | orth Head | | ရှိ ကို ကို | down the Bay. abane la Mar to York. | Jacksonville, Liverpool. | nburg m. h Syc | rierre. |
| : | | Van | I. | Wall | | 19 Haff's Harbour | Hali | | Parr Hi | Clem | Antw | | Chev | | S | Vest West | Saba Yo | Jacks Liv | Lunenburg to town. North Sydney | |
| 325 | 111 | : | | 119 | | 19 | 21 | 596 | 09 | 130 | 498 | | == | 7.9 | 8 | 6 | 446 | 438 | 1, 89 50 41 46 | |
| Bktn., wood, | wood, | ean. | | wood, | | : | : | boro', Barque, wood, | 0 0 d, | · | steel. | | wood, | | : | : | : | wood, | wood, 89 50 | • |
| ktn., w sail. | | u ver, Wood, stean. | | | | = | = | arque, sail. | Schr., wood, | F | Eng . Steamer, steel. | | | = | = | = | : | e, N. B. Barque, wood, sail. | | |
| ¥ . | N.B. Schr., | Y, We | | B. Sch | | | | o', Ban | | :- | Ste | | Ŋ. | | σά | | zó. | B. Bar | <u> </u> | _ |
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| Britis} | 15 St. John | Vanc | 1 | St. John, N.B. Schr., sail. | | = | Halifax, | arre N.S. | = | 10 Digby, N.S | 2 London, | | St. John | arra | Vinds | Parrsh | Windsor, N.S. | 19 Sackvill | Lunen N.S. Halifax, | |
| क्ष | 15 | 3 m. | | t~ | | : | | 12 Parreb N.S. | 14 | 10 1 | 7 7 | | 2 2 | 23 | 1 Windsor, N.S. | 2 | 15 | 19 | 34 10 | - |
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| way . | an | e Chi | | : | | E. KI | : | : | : : | ine | h Kir | | : d | Anni | lick. | Spra | : | rtha | ymph | |
| Spina | 14 Sabrian | Stikir | | 9 Saxon | | Sarah E. Ells | Succes | 25 Salina | 7 Surprise | šeraph | Scottish King | | 2 Sabrina. | Susan | Sam S | Silver | Severi | 2 Siddartha | Samos Sea N | |
| Nov. 27 Spinaway 23 British | 14 | Stikine Chief 3 m. Vanco | | | | | Nov. 27 Success | | | Nov. 27 Seraphine | | 1899. | | Feb. 15 Susan Annie | Mar. 29 Sam Slick | May 4 Silver Spray | Feb. 14 Severn | | May 28 Samoa 10 Lunen N.S. July 30 Sea Nymph 34 Halifax | _ |
| ž | - | : | | Dec. | | z | No | = | Dec. | Ne | = | 18 | Jan. | Feb | Ma | Ma | Fet | = | Ma Jul | |

63 VICTORIA, A. 1900

STATEMENT of Wrecks and Casualties reported as having occurred to British, Canadian and Foreign Sea-going Vessels in Canadian 300 8 3,000 క్ష 1, 0,83 1,83 Partialloss, amount Partialloss, amount of damage not of damage not re-Total loss, 1 Partial loss of Remarks. Triffing loss. Partial loss, reported. Partial loss, Partial loss, Partial loss, go, Partial loss, Fotal loss, ported. Cargo, Lives lost. St. John, N.B., Rock Coast of Maine, U.S.A. Ran into by the Marie land, Me. mate Hillsboro, N.B., to Near Musquash, Light Collision; was run into Newark, N.J., U.S. Bay of Fundy, N.B. by another vessel, the by another vessel, the Vineyard, throughcarelessness on the part of Haven, Damaged in collision in S.A. the storm of Nov. 27. rocks sprang Sprang a leak and foundto Off Green Island, Yar-Sprang a leak and found-mouth, N.S. and Nature of Ioilo to New York ... Off Hatteras, Atlantic Heavy sea and gale through error of in giving orders. .. |Seaforth Channel, B.C. |Stranded on the to Lower Middle Shoal, Grounded and Boston Hbr., U.S. a leak. Casualty. the Vincyard. Cause St. Lawrence River, Stranded.... Ocean. Quoddy Lt., North Collision Victoria to Skagway, McLaughlin Bay, B.C. Stranded... where Casualty Louisburg to Yarmouth South shore, N.S. Mass., U.S.A. happened St. John, N.B., to New Vineyard H Place Atlantic. Waters, &c.—Continued Boston to St. John.... Boston, U. S. A., Lockeport, N.S. Port sailed from. Parrsboro', N.S., Seal Island, N.S. Port bound to. 1192 Quebec ... œ 1386 86 125 9 8 254 æ 6 569 Register Tonnage. Parrsboro', Ship, wood, N.S. sail. St. John, N.B. Schr., wood, ... Steamer, steel. St. John, N.B. Schr., wood, Schr., steel, .. Schr., iron, Steam or Sail How Rigged. ron or Wood steam. steam. Victoria, B.C. Parrsboro, N.S. Shelburne, N.S. Portland, Me. St. John, N.B. Arichat, N.S. Registry. Newcastle Port of = # 14 Π 67 23 01 9 9 8 Age of Ship. 33 July 13 Treasurer 9 Temperance Bell. Name of Ship. .. Turrent Chief.. Mar. 21 Springwood 18 Sebago.... 8'S. G. Irwin 4 Sea Bird Sept. 15 Sarah F Mar. 24 Tees April 21 Tees 27 Tay 1898. Nov. Date of Casualty. Oct. = =

| SESSIONAL | PAPER | No. | 11b |
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| 5,000 | 100 | 700 100 8,000 | mount e not | 1,000 | 3,000 159 | 1,500 1,487 | 900 | mount report- | mount report- | 200 | 250 | | 300 | mount | 008 | 2,500 |
| : | = | " Cargo, Total lose, | Partialloss, amount of damage not | Partial loss, | Total loss, Partial loss, | Total loss, Cargo, | Partial loss, | Total loss, amount of loss not reported. | Total loss, amount of loss not report- | Partial loss | £ | Total loss | Partial loss, | Total loss, amount of loss not report- | ed. Partial loss, | Partial loss, Cargo, |
| <u>:</u> | | | : | : | : ; | : | : | 9 | 4 | : | : | - | : | : | : | - |
| Havre, At sea, Atlantic Ocean Struck by heavy seas | Struck by a squall | Heavy gales | . Stranded | Victoria, B.C., to seal. Vancouver Island, B.C. Dragged her anchors and ing grounds. | nd, Me. Stranded, Pereaux Damaged in gale | to St. Mouth, A.S. A. Sound, U.S.A. of the vessel. | Stranded | | Foundered in gale of Nov. 27, 1898. | Collided with a tug which | Mon- Heavy gale | Heavy gales | Near Bois Blanc Island, Damaged in a big snow- ont. | : | Collision | Grind- Heavy gale. |
| At sea, Atlantic Ocean | to Off Cape Split, Minas Struck by a squall. Gut, Bay of Fundy. | | St. Halifax Harbour, N.S. Stranded | Vancouver Island, B.C | to Ean-Chum Cap Island, Me Pereaux Loading at Pereaux | Mouth of Long Island Sound, U.S.A. | Hot Springs Bay, 117 Stranded | Bay of Fundy | At sea | New- New York Harbour | Mor | North Atlantic, aban- Heavy gales. | Near Bois Blanc Island, Ont. | to Bay of Fundy shore Went ashore. | to Partridge Island, St. Collision John Harbour, N.B. | Island Reef, Grind- stone Island. |
| 9 | Parrsboro', N.S., to Hopewell, N.B. | New York to Pernam-Gulf Stream buco. Porsgrund to Garston Alright Island, | Old Docks. Halifax, N.S., to St. Johns, Nfid. | Victorla, B.C., to seal- ing grounds. | Mass., S. st | <u>.</u> ; | Victoria to St. Michaels, | | Yarmouth to Louisburg At sea | New York to New- | New York, U.S., to 30 miles from St. Iohn N.B. | Hamburg to Montreal. | Duluth to Buffalo | Parrsboro, N.S., to Calais, Me. | Fredericton, N.B., to Salem, Mass. | 70 Parrsbow, N.S. |
| , 1198 | 61 | 747 | 1096 | \$ | 99 124 | 349 | 716 | 56 | 95 | 136 | 124 | 4,485 | ÷ | 86 | 8 | 20 |
| wood | Schr., wood, sail. | Barque, wood, sail. Bk., wood, sail | N.S. Schr., iron, steam. | Schr., wood, | : : | : | Wood, steam | Schr., wood, | : | : | : | Schr., steel, 4,485 | Proplir, wood, steam. | Schr., wood, | : | : |
| Parrsboro', | Sackville, N. B. | St. John, N.B. | 13 Halifax, N.S. S | 10 Victoria, B.C. S | 9 St. John, N.B ew Parrsboro, N.S | 7 St. John, N.B | new Victoria, B.C. V | 8 Weymouth, S. N.S. | Lunenburg, N.S. | Parrsboro, N.S. | St. John, N.B | Sunderland | American | 2 Parrsboro, N.S S. | St. John, N.B. | Parrsboro, N.S |
| 13 P | | | <u> </u> | | | | _new_ | | 15 | 9 | œ | က | <u>:</u> | | 01 | 18 |
| | July 19 True 35 Sackville, N.B. Schr., 1898. | June 14 Unanima | April 24 Ulunda | Feb. 19 Venture | Nov. 9 Vado 9 St. John, N.B 27 Vera B. Roberts, new Parrsboro, N.S. | 14 Vamoose | June 23 Victorian | Vinton | Nov Vanilla | Aug. 9 Wellman Hall | Sept. 27 Walter Miller | Nov. 2 Westmeath | 5 Wm. H. Stevens | Jan. 2 Willie D | July 1 Wendell Burpee. 10 St. John, N.B. 1898. | Sept. 22 Zina, M |
| Feb. | July 1898. | June Oct. | April : | Feb. | Nov. | Dec. | June | : : | Nov. | Aug. | Sept. 2 | Nov. | Dec. | Jan. | July 1898. | Sept. |

STATEMENT of Wrecks and Casualties reported as having occurred to Canadian Inland Vessels and to other Vessels in the Inland Waters of Canada, during the twelve months ended June 30, 1899.

| | | | | | | | 63 V | | RIA, A. | 1900 |
|--------------------------------------------|---------|------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------|------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|------------------------------------------|----------------------------------------------|
| Remarks. | 96 | Partial loss, 2,000 | Partial loss, amt. of damage not | Total loss, amount of loss not report- | Partial loss, 2,000 | Sxtent of loss not reported. Fotal loss, 7,000 | Partial loss, 50 Total loss, 30,000 | 3,500 | Total loss, amount of loss not reported. | Partial loss, 10,000 |
| Lives lost. | | : | i | : | : | * : | | : | : | : |
| Cause and Nature of Casualty. | | Kingston, Ont., to Near Nicholson's Is-Driven on shore by wind. Charlotte to Kings-land, Lake Ontario, ton, Ont. | Coast Store. Upper Georgian Bay, Collided with Str. Pacific Lake Huron. | Foundered | Blown on shore | casualty n | Collingwood to Sault Upper Georgian Bay, Collided with Str. J. H Partial los Ste. Marie. Ste. Marie. G.T. R. dock, Colling- Destroyed by fire Total loss, wood, Ont. | Fire | Cove Driven ashore in a gale. | |
| Place where Casualty happened. | The Cal | Near Nicholson's Island, Lake Ontario, | Coast snore. Upper Georgian Bay, Lake Huron. | 2 | Ontario. Near Nicholson's Is-Blown on shore land, Lake Ontario. | Buffalo to Depot Har-65 miles north of God- Nature of bout, Georgian Bay erich, Lake Huron, reported. Sarnia to Nepigon East point of Battle Island, Lake Superior | It Upper Georgian Bay, Lake Huron. G.T.R. dock, Colling- wood, Ont. | 94 Kingston to St. John's At wharf, Lacolle, P.Q Fire | Tecumseh Bay, Cove Island. | Little George's Island, Lake Winnipeg. |
| Port Sailed from. Port Bound to. | | Kingston, Ont., to Charlotte to Kings- ton, Ont. | Wiarton | Kingston, Ont., to Charlotte to Kings- | con, Onc. | Buffalo to Depot Harbour, Georgian Bay. | Collingwood to Sault Ste. Marie. | Kingston to St. John's to Lacolle. | | : |
| Register Tonnage. | | 539 | 86 | 86 | 496 | % : | 624 | 95 | : | 113 · 20 |
| How Rigged. Iron or Wood. Steam or Sail. | | Barge | Prop'l'r, wood, steam. | Ont Steamer, wood. | Barge | larines, Wood, sailing vessel. | Sound, Wood, steam. | Wood, steamer | U.S. Steamer, wood | Wood, steam |
| Port of Registry. | | 3 Montreal, Q . Barge | 10 Goderich, Ont PropTr, wood, steam. | Kingston, Ont | 10 Montreal, Que Barge. | 17 St. Catharines, Wood, sailing Ont. vessel. Sarnia, Ont Steamer | 15 Owen Sound, Ont | Kington, Ont. Wood, steamer | Chicago, U.S. | 17 Winnipeg, M. Wood, steam . 113 20 Selkirk |
| Age of Ship. | Y'78 | ec | | = | 9 | 17 | 15 | 8 | | 17 |
| Name of Ship. | | 22 Hector | Sept. 17 J. H. Jones | 22 James A. Walker 11 Kingston, | 22 Kildonan. | Sept. Lisgar Aug. 9 Ontario | Sept. 17 Pacific Nov. 3 Pacific 1899. | Nov. 15 Princess Louise | Oct. 27 P. C. Minch | Oct Red River |
| Date of Casualty. | 1898. | Oct. 22 | Sept. 17 | Oct. 22 | ., 22 1899. | Sept Aug. 9 | Sept. 17 Nov. 3 | Nov. 15 | Ort. 27 1899. | Oct |

| SESSIC | IAN | L PAPE |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------|
| 5,500 | 46,000 200 | 1 |
| Total loss, | Cargo, | Total loss, |
| : | | Total loss, |
| gston. Ont Steamer, wood 17.50 Laid up for the winter Laid up for winter in Fire | 769 Kingston, Ont., to 9 miles from Fairport, "Cleveland, Ohio. | McCracken's Landing, "Story Lake, Ont. |
| Laid up for the winter in Kingston Harboun | Kingston, Ont., to | boro, Ont Steamer, wood 1.70 At anchors |
| 17.50 | 692 | 1.70 |
| Steamer, wood | Catharines, Steam | Steamer, wood |
| 3 Kingston, Ont | St. Catharines, | Peterboro, Ont |
| | 18 | 4 |
| Vov. 13 Sophy 13 | Aug. 26 S. L. Tilley 18 St. C | 5 Tramp |
| 1898. Nov. 1 1899. | Aug. 2 | = |