

1881.  
NEW ZEALAND.

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# MARINE DEPARTMENT

(ANNUAL REPORT OF THE).

*Presented to both Houses of the General Assembly by Command of His Excellency.*

SIR,—

Marine Department, Wellington, 18th August, 1881.

I do myself the honor to submit the following report on the operations of this department during the past financial year ended the 31st March last.

Some important changes in the administration of the department have been made during the period referred to. After having been combined with the Customs since the early part of 1870, the Marine Office was in April, 1878, severed from that department, and placed under the management of a Nautical Officer. In October last the Government determined to place the Marine and Customs Departments again under one permanent head, and was pleased to restore me to the position I had formerly occupied, that of having charge of both departments; the services of the officer recently in charge of the Marine Department being retained as Nautical Adviser to the department. The Government at the same time transferred the administration of the Inspection of Machinery Act from the Public Works Department to the Marine Department, in order that the Inspectors under that Act, who are also Inspectors of Steamers, might be placed under the supervision of one department. Shortly before these changes were made, the nominal connection between the Weather-reporting Office and the Marine Department ceased, through the amalgamation of the former with the Meteorological Department; and in July, 1880, the management of the Kohimarama Naval Training School was handed over to the Education Department.

*Lighthouses.*—The several coastal lighthouses, 21 in number, have been visited and inspected by an officer of the department during the past year; the lights were found to be thoroughly efficient in every case, and the buildings and their surroundings generally in good order.

Reference has been made in previous reports to the necessity for a light at Cape Egmont. A site was selected for this light as far back as 1874; but, owing to the disaffection of the Natives living near that part of the coast, it was found impracticable to proceed with its erection. On the establishment of military posts, and the occupation of the country in the vicinity of Cape Egmont, all chance of serious opposition by the Natives to the establishment of the light was removed, and the Government at once gave directions for its erection to be proceeded with. As the Mana Light, which had ceased to be used after the light on the Brothers was lighted, was in every way suited for Cape Egmont, instructions were given for its removal to that place. The tower is of iron, 53 feet high, and weighs 90 tons. It was taken down, removed, and re-erected on its new site, without accident or mishap of any kind. The light was exhibited at Cape Egmont on the night of the 1st instant.

Although the light on the Brothers, in conjunction with the lights at Pencarrow Head and Cape Campbell, have lighted the southern entrance and narrowest part of Cook Strait, it cannot be said that the strait is well lighted until a light is placed on Stephen's Island. Strangers, it is alleged, on entering the strait from the westward at night, are inclined, in their anxiety to keep clear of Stephen's Island, to give it so wide a berth that they run the risk of being embayed in Wanganui bight. A suitable site for a light has been selected on Stephen's Island, and a track from the beach cut to it through the bush; but, in the absence of appropriations, the work of constructing the light cannot be gone on with. The cost is estimated at £7,000.

The apparatus and lantern for the light at Mokohinau are still in store at Auckland, no instructions having as yet been given to proceed with the erection of this light. The Tory Channel leading lights will be proceeded with very shortly.

Paraffin-burners have been fitted at the lights at Pencarrow Head and Tiritiri. Mineral oil is now used at all the New Zealand lights. At the small lights at Poniu Passage and Bean Rock (Auckland Harbour) the ordinary kerosene of commerce is used; all others are supplied with paraffin oil, which is specially imported. Whilst referring to this subject I think it is right that I should call attention to a passage which appears in the printed report of the Controller and Auditor-General, recently presented to Parliament, which has evidently been made under a misapprehension of the conditions under which the lighthouse oil is supplied, and which, if not corrected, might create an

impression that due care is not exercised by the department on this important point. In referring to marine stores Mr. FitzGerald states, "That the articles, such as oil, on which the efficient maintenance of the lights depend, should be supplied without a previous inspection as to quality as well as quantity, especially when no error can be rectified in some cases for several weeks after their delivery, appears to involve some risk as to the proper maintenance of the lights." The quality of the oil referred to is guaranteed by the fact that it is purchased from the Trinity Board in London; it is tested by the Board's inspector before it is shipped, and is the same as that which is used in the English lighthouses. On reaching the lighthouses here the oil is removed from the tins in which it is imported into storage tanks, and the contents of each tank tested before being used. If the oil were to be thoroughly tested in Wellington before it is sent to the lighthouses, each tin would have to be opened, which would involve a large amount of labour and risk of loss of oil. The quantity is attested by the packages it is imported in, which are 5-gallon tins enclosed in cases, similar to those in which kerosene is packed.

A report by the Marine Engineer on the works carried out under his directions for this department is appended hereto.

*Light Dues.*—The light dues collected during the past year amounted to £6,734 Os. 7d. This is a considerable reduction on the amounts collected during previous years, and has been caused by the abolition of all light dues on coasting vessels.

*Government Steamers.*—These vessels are both in good order. The "Stella" has been constantly employed in work connected with this department, but has also been able to accomplish a large amount of work for other departments, notably the mail service to the bays and sounds of the west coast of the Middle Island, at which places she now calls every three months. The "Hinemoa" has also, in the absence of the "Stella" on her regular trips, been occasionally employed on services connected with this department. The iron lighthouse tower was conveyed by her from Mana Island to New Plymouth, and safely landed there without any mishap.

*Inspection of Machinery.*—A report from the Chief Inspector is appended hereto.

*Examination of Masters and Mates.*—Certificates of competency have been issued during the year to 87 candidates, 56 being for masters, mates, and engineers of sea-going vessels, and 31 for masters and engineers of river steamers.

*Surveys, &c.*—Several small surveys of reported dangers have been from time to time made by the masters of the Government steamers, but no marine surveys of importance have been made during the past year.

Sir John Coode's reports on Waitara, Westport, and Gisborne (Poverty Bay) Harbours have been received, and have been printed for presentation to both Houses of the General Assembly.

*Steam Navigation.*—Passenger certificates have been issued to 138 steamers, of 13,897 aggregate tonnage and 5,757 horse-power.

*Wrecks and Casualties.*—During the past year reports have been received of 64 casualties; of these, 58 were on or near the coasts of the colony: 17 vessels, of 1,351 tons register, being total wrecks; 44, of 7,390 tons, being partial losses; and 4 cases of loss of life only. The total number of lives lost was 44—namely, 8 in the "Acadia," 7 each in the "Colleen Bawn" and "James A. Stewart," 6 in the "Poneke," 4 in the "Jane Hannah," 3 each in the "Anna" and "Three Brothers," 2 in the "Southern Queen" (all these vessels were lost with all hands), and 1 each from the "Lizzie Guy," "Beautiful Star," "Annie Hill," and "Alert." Of the 6 casualties reported as having occurred beyond the colony, 2, of 163 tons, were total losses; 1, of 334 tons, a partial loss; and 3 cases of loss of life only, 3 lives having been lost from the "Loch Dee," and 1 each from the "Pareora" and "Anne Melhuish."

*Returns.*—The usual returns and wreck chart are appended hereto.

I have, &c.,

The Hon. the Minister having charge of the Marine Department.

WILLIAM SEED,  
Secretary.

RETURN showing the Amount of Light Dues collected during the Year ended the 31st March, 1881.

|              |     |     |     |     | £      | s. | d. |
|--------------|-----|-----|-----|-----|--------|----|----|
| Auckland     | ... | ... | ... | ... | 959    | 14 | 0  |
| Onehunga     | ... | ... | ... | ... | 2      | 2  | 9  |
| Whangaroa    | ... | ... | ... | ... | 0      | 12 | 1  |
| Kaipara      | ... | ... | ... | ... | 0      | 1  | 10 |
| Russell      | ... | ... | ... | ... | 280    | 6  | 0  |
| Mongonui     | ... | ... | ... | ... | 1      | 19 | 3  |
| New Plymouth | ... | ... | ... | ... | 2      | 10 | 2  |
| Wanganui     | ... | ... | ... | ... | 1      | 19 | 11 |
| Patea        | ... | ... | ... | ... | 0      | 8  | 4  |
| Wellington   | ... | ... | ... | ... | 1,313  | 6  | 5  |
| Napier       | ... | ... | ... | ... | 61     | 4  | 6  |
| Nelson       | ... | ... | ... | ... | 154    | 2  | 10 |
| Westport     | ... | ... | ... | ... | 8      | 9  | 4  |
| Hokitika     | ... | ... | ... | ... | 0      | 9  | 10 |
| Lyttelton    | ... | ... | ... | ... | 1,737  | 5  | 9  |
| Timaru       | ... | ... | ... | ... | 112    | 16 | 3  |
| Oamaru       | ... | ... | ... | ... | 47     | 4  | 0  |
| Dunedin      | ... | ... | ... | ... | 1,471  | 4  | 8  |
| Bluff        | ... | ... | ... | ... | 578    | 2  | 8  |
| Total        | ... | ... | ... | ... | £6,734 | 0  | 7  |

RETURN of Steamers to which Passenger Certificates were issued in New Zealand during the Year ended the 31st March, 1881.

| Name of Vessel.      | Tons Register. | Horse-power of Engines. | Nature of Propeller. | Class of Certificate. | Nature of Engines. | Remarks.         |
|----------------------|----------------|-------------------------|----------------------|-----------------------|--------------------|------------------|
| Akaroa ...           | 43             | 28                      | Screw                | Sea-going             | Compound           |                  |
| Albion ...           | 591            | 180                     | "                    | "                     | Condensing         |                  |
| Alert ...            | 6              | 8                       | "                    | River                 | Non-condensing     | Launch.          |
| Anne Milbank ...     | 44             | 24                      | Paddle               | Extended river        | "                  |                  |
| Antrim ...           | 35             | 30                      | "                    | River                 | "                  |                  |
| Arawata ...          | 623            | 300                     | Screw                | Sea-going             | Compound           |                  |
| Argyle ...           | 126            | 40                      | "                    | "                     | "                  |                  |
| Beautiful Star ...   | 126            | 30                      | "                    | "                     | Condensing         |                  |
| Bella ...            | 12             | 12                      | "                    | Extended river        | Non-condensing     |                  |
| Black Diamond ...    | 9              | 20                      | "                    | River                 | "                  |                  |
| Blanche ...          | 8              | 9                       | "                    | "                     | "                  |                  |
| Boojum ...           | 14             | 12                      | "                    | Extended river        | Compound           | New vessel.      |
| Bridgewater ...      | 4              | 5                       | "                    | River                 | Non-condensing     | Launch.          |
| Charles Edward ...   | 89             | 60                      | Paddle               | Sea-going             | Condensing         |                  |
| City of Cork ...     | 29             | 40                      | "                    | River                 | "                  |                  |
| Clyde ...            | 27             | 32                      | Twin-screw           | Extended river        | Non-condensing     |                  |
| Clyde ...            | 34             | 12                      | Screw                | River                 | "                  |                  |
| Comarang ...         | 152            | 70                      | Paddle               | "                     | Condensing         | Left the colony. |
| Colleen ...          | 33             | 18                      | "                    | "                     | "                  | New vessel.      |
| Coromandel ...       | 68             | 25                      | Screw                | Sea-going             | Compound           |                  |
| Delta ...            | 60             | 30                      | Paddle               | River                 | Non-condensing     |                  |
| Devonport ...        | 23             | 12                      | "                    | "                     | "                  |                  |
| Dispatch ...         | 38             | 40                      | "                    | Sea-going             | Condensing         |                  |
| Durham ...           | 54             | 30                      | Screw                | Extended river        | Compound           |                  |
| Enterprise No. 2 ... | 61             | 32                      | Paddle               | "                     | Non-condensing     |                  |
| Effort ...           | 13             | 12                      | "                    | River                 | "                  |                  |
| Esk ...              | 3              | 3                       | "                    | "                     | "                  | New launch.      |
| Fairy ...            | 33             | 15                      | Screw                | Extended river        | "                  |                  |
| Fingal ...           | 23             | 13                      | "                    | "                     | "                  |                  |
| Gemini ...           | 11             | 7                       | Twin-screw           | River                 | "                  |                  |
| Glenelg ...          | 156            | 75                      | Screw                | Sea-going             | Compound           |                  |
| Go-Ahead ...         | 82             | 30                      | "                    | "                     | "                  |                  |
| Grafton ...          | 242            | 100                     | Twin-screw           | "                     | "                  |                  |
| Hannah Mokau ...     | 35             | 15                      | Screw                | River                 | Non-condensing     |                  |
| Hauraki ...          | 73             | 45                      | Paddle               | Sea-going             | Condensing         |                  |
| Hawea ...            | 461            | 160                     | Screw                | "                     | Compound           |                  |
| Huia ...             | 107            | 25                      | "                    | "                     | "                  |                  |
| Ida ...              | 12             | 10                      | "                    | River                 | Non-condensing     |                  |
| Ino ...              | 24             | 12                      | Twin-screw           | Extended river        | "                  |                  |
| Iona ...             | 159            | 65                      | Screw                | Sea-going             | Compound           |                  |
| Jane ...             | 25             | 8                       | "                    | Extended river        | Non-condensing     |                  |
| Jane Douglas ...     | 75             | 20                      | "                    | Sea-going             | Compound           |                  |
| Jane Williams ...    | 33             | 15                      | "                    | River                 | Non-condensing     |                  |
| Kakanui ...          | 57             | 22                      | "                    | Sea-going             | Compound           |                  |
| Katikati ...         | 15             | 9                       | "                    | River                 | Non-condensing     |                  |
| Kennedy ...          | 138            | 50                      | Twin-screw           | Sea-going             | Compound           |                  |
| Kina ...             | 39             | 15                      | Screw                | Extended river        | Condensing         |                  |
| Kiwi ...             | 133            | 30                      | "                    | Sea-going             | Compound           |                  |
| Koputai ...          | 5              | 120                     | Paddle               | "                     | "                  |                  |
| Kopuru ...           | 28             | 20                      | Screw                | River                 | Non-condensing     |                  |
| La Buona Ventura ... | 4              | 4                       | "                    | "                     | "                  | Launch.          |
| Lady Barkley ...     | 30             | 25                      | Paddle               | Extended river        | Condensing         |                  |
| Lallah Rookh ...     | 23             | 14                      | "                    | "                     | Compound           |                  |
| Lara ...             | 4              | 7                       | Screw                | River                 | Non-condensing     | New launch.      |
| Lilie ...            | 10             | 10                      | Paddle               | "                     | "                  |                  |
| Lioness ...          | 26             | 60                      | "                    | Sea-going             | Condensing         |                  |
| Lily ...             | 4              | 6                       | Screw                | River                 | Non-condensing     | Launch.          |
| Lily ...             | 20             | 10                      | Twin-screw           | Extended river        | "                  |                  |
| Little Irishman ...  | 6              | 8                       | Screw                | River                 | "                  | Launch.          |
| Lyttelton ...        | 86             | 25                      | Paddle               | Sea-going             | Condensing         |                  |
| Lyttelton ...        | 6              | 14                      | Twin-screw           | Extended river        | Non-condensing     | Launch.          |
| Manawatu ...         | 103            | 45                      | Paddle               | Sea-going             | Condensing         |                  |
| Manukau ...          | 45             | 15                      | Screw                | River                 | "                  | New vessel.      |
| Maori ...            | 118            | 60                      | "                    | Sea-going             | "                  |                  |
| Maori ...            | 17             | 8                       | "                    | Extended river        | Non-condensing     |                  |
| Mensahib ...         | 6              | 4                       | "                    | River                 | "                  | Launch.          |
| Minnie Casey ...     | 43             | 25                      | "                    | Extended river        | Compound           |                  |
| Mohaka ...           | 20             | 12                      | "                    | "                     | Non-condensing     |                  |
| Moa ...              | 49             | 25                      | "                    | "                     | Condensing         |                  |
| Mountaineer ...      | 66             | 25                      | Paddle               | River                 | Compound           |                  |
| Murray ...           | 78             | 18                      | Screw                | Sea-going             | Condensing         |                  |
| Napier ...           | 48             | 24                      | "                    | "                     | Compound           |                  |
| Noko ...             | 15             | 9                       | "                    | Extended river        | Non-condensing     |                  |
| Oregon ...           | 20             | 16                      | Paddle               | River                 | "                  |                  |
| Oreti ...            | 117            | 43                      | Screw                | Sea-going             | Compound           |                  |
| Osprey ...           | 28             | 10                      | Paddle               | Extended river        | Non-condensing     |                  |
| Patea ...            | 51             | 22                      | Twin-screw           | Sea-going             | Compound           |                  |
| Pearl ...            | 14             | 5                       | Screw                | River                 | Non-condensing     |                  |
| Penguin ...          | 442            | 180                     | "                    | Sea-going             | Condensing         |                  |
| Peninsula ...        | 31             | 18                      | Paddle               | River                 | Non-condensing     |                  |
| Piako ...            | 8              | 8                       | "                    | "                     | "                  |                  |

RETURN of Steamers to which Passenger Certificates were issued, &c.—*continued*.

| Name of Vessel.       | Tons Register. | Horse-power of Engines. | Nature of Propeller. | Class of Certificate. | Nature of Engines. | Remarks.       |
|-----------------------|----------------|-------------------------|----------------------|-----------------------|--------------------|----------------|
| Pioneer ...           | 5              | 5                       | Screw                | River                 | Non-condensing     | New vessel.    |
| Planet ...            | 13             | 8                       | "                    | Extended river        | "                  |                |
| Plucky ...            | 29             | 40                      | "                    | Sea-going             | Compound           |                |
| Portobello ...        | 11             | 10                      | Paddle               | River                 | Non-condensing     | Since wrecked. |
| Rangatira ...         | 186            | 50                      | Screw                | Sea-going             | Compound           |                |
| Result ...            | 18             | 23                      | "                    | Extended river        | Non-condensing     |                |
| Result ...            | 13             | 10                      | Paddle               | "                     | "                  | Launch.        |
| Rangiriri ...         | 30             | 30                      | Stern-wheel          | River                 | "                  |                |
| Ringarooma ...        | 623            | 300                     | Screw                | Sea-going             | Compound           |                |
| Riro Riro ...         | 4              | 4                       | "                    | River                 | Non-condensing     | Launch.        |
| Rose Casey ...        | 99             | 40                      | "                    | Extended river        | Compound           |                |
| Rosina ...            | 19             | 14                      | "                    | "                     | Non-condensing     |                |
| Rotomahana ...        | 864            | 450                     | "                    | Sea-going             | Compound           | Launch.        |
| Rotomahana ...        | 138            | 45                      | "                    | "                     | Condensing         |                |
| Rotorua ...           | 576            | 172                     | "                    | "                     | Compound           |                |
| Rotoiti ...           | 17             | 15                      | Double-screw         | Extended river        | Non-condensing     | Launch.        |
| Rowena ...            | 74             | 30                      | Screw                | Sea-going             | Compound           |                |
| St. Kilda ...         | 174            | 45                      | "                    | "                     | Condensing         |                |
| Samson ...            | 124            | 70                      | "                    | "                     | "                  | New launch.    |
| Scotchman ...         | 20             | 10                      | "                    | River                 | Non-condensing     |                |
| Shag ...              | 31             | 27                      | "                    | Sea-going             | "                  |                |
| Sir Donald ...        | 29             | 12                      | "                    | Extended river        | Condensing         | New launch.    |
| Southern Cross ...    | 139            | 50                      | "                    | Sea-going             | Compound           |                |
| Spray ...             | 4              | 2                       | "                    | River                 | Non-condensing     |                |
| Staffa ...            | 40             | 25                      | "                    | Extended river        | Compound           | New launch.    |
| Star ...              | 4              | 5                       | "                    | River                 | Non-condensing     |                |
| Star of the South ... | 175            | 45                      | "                    | Sea-going             | Compound           |                |
| Storm Bird ...        | 67             | 30                      | "                    | "                     | Condensing         | New launch.    |
| Tainui ...            | 47             | 22                      | Paddle               | Extended river        | Non-condensing     |                |
| Tainui ...            | 7              | 7                       | Screw                | River                 | "                  |                |
| Taiaroa ...           | 228            | 110                     | "                    | Sea-going             | Compound           | New launch.    |
| Takapuna ...          | 58             | 20                      | Paddle               | River                 | Non-condensing     |                |
| Tam o' Shanter ...    | 10             | 7                       | Screw                | "                     | "                  |                |
| Tangihua ...          | 20             | 15                      | "                    | "                     | "                  | Since wrecked. |
| Tararua ...           | 563            | 140                     | "                    | Sea-going             | Compound           |                |
| Te Anau ...           | 1,028          | 250                     | "                    | "                     | "                  |                |
| Te Aro ...            | 5              | 4                       | "                    | River                 | Non-condensing     | New launch.    |
| Te Aroha ...          | 50             | 14                      | Paddle               | "                     | "                  |                |
| Titan ...             | 21             | 55                      | "                    | Extended river        | Condensing         |                |
| Tongariro ...         | 39             | 10                      | "                    | "                     | Non-condensing     | Launch.        |
| Tongariro ...         | 62             | 25                      | "                    | "                     | "                  |                |
| Torea ...             | 9              | 10                      | Screw                | "                     | Compound           |                |
| Tui ...               | 64             | 20                      | "                    | Sea-going             | "                  | Launch.        |
| Vesta ...             | 3              | 5                       | "                    | River                 | Non-condensing     |                |
| Vivid ...             | 13             | 13                      | "                    | "                     | "                  |                |
| Waikato ...           | 61             | 14                      | Paddle               | "                     | "                  | New launch.    |
| Waipara ...           | 70             | 30                      | Twin-screw           | Sea-going             | "                  |                |
| Waitaki ...           | 228            | 90                      | Screw                | "                     | Compound           |                |
| Waitara ...           | 11             | 15                      | "                    | Extended river        | Non-condensing     | New launch.    |
| Waiwera ...           | 6              | 10                      | "                    | River                 | Compound           |                |
| Wakatu ...            | 75             | 30                      | "                    | Sea-going             | "                  |                |
| Wakatipu ...          | 1,158          | 256                     | "                    | "                     | "                  | Launch.        |
| Wallabi ...           | 101            | 25                      | "                    | "                     | Condensing         |                |
| Waiau ...             | 3              | 3                       | "                    | River                 | Non-condensing     |                |
| Wallace ...           | 64             | 50                      | Paddle               | Sea-going             | Condensing         | Launch.        |
| Wanaka ...            | 277            | 120                     | Screw                | "                     | Compound           |                |
| Wellington ...        | 261            | 80                      | "                    | "                     | Condensing         |                |

## RETURN showing the Certificates of Service issued to Masters and Engineers during the Year ended the 31st March, 1881.

| Name of Person.         | Rank.        | Class of Certificate. | Date of Issue.    | Number. |
|-------------------------|--------------|-----------------------|-------------------|---------|
| Robert Day ...          | Master ...   | Home trade ...        | 11 May, 1880 ...  | 2485    |
| William Waters ...      | " ...        | " ...                 | 13 " " ...        | 2486    |
| Richard McKay ...       | " ...        | " ...                 | 26 July " ...     | 2487    |
| Henry Lane ...          | " ...        | " ...                 | 27 Aug. " ...     | 2488    |
| Neil Hendry ...         | " ...        | " ...                 | 22 Sept. " ...    | 2489    |
| Allen Christey ...      | " ...        | Foreign trade ...     | 26 Nov. " ...     | 2490    |
| George Henry Rolton ... | " ...        | Home trade ...        | 6 Dec. " ...      | 2491    |
| James Black ...         | " ...        | " ...                 | 15 Jan., 1881 ... | 2492    |
| Angus McLean ...        | " ...        | " ...                 | 25 " " ...        | 2493    |
| John Furdie ...         | Engineer ... | 2nd class ...         | 21 " " ...        | 1036    |

RETURN of Masters, Mates, and Engineers, to whom Certificates of Competency were issued, between the 1st April, 1880, and the 31st March, 1881.

| Name of Person.                  | Rank.                  | Class of Certificate. | Date of Issue.      | Number. |
|----------------------------------|------------------------|-----------------------|---------------------|---------|
| Hugh Legg ...                    | Master Ordinary ..     | Foreign trade ...     | 28 April, 1880 ...  | 231     |
| Walter William Fyson ...         | " ...                  | " ...                 | 28 " " ...          | 232     |
| John Macaulay ...                | " ...                  | " ...                 | *28 " " ...         | 233     |
| Jacob Eckhoff ...                | " ...                  | " ...                 | *11 May " ...       | 234     |
| James Horne ...                  | " ...                  | " ...                 | 18 " " ...          | 235     |
| Walter Francis Norbury ...       | Only Mate ...          | " ...                 | 22 June " ...       | 236     |
| James Malcolm ...                | Master Ordinary ...    | " ...                 | *19 July " ...      | 237     |
| William George North ...         | Only Mate ...          | " ...                 | *19 " " ...         | 238     |
| Israel Quick Gregory ...         | " ...                  | " ...                 | * 2 Aug. " ...      | 239     |
| Hillel Fredrik Liljeblad ...     | Master Ordinary ...    | " ...                 | 2 " " ...           | 240     |
| John Morgan ...                  | " ...                  | " ...                 | *16 Sept. " ...     | 241     |
| John Henry Percival ...          | Only Mate ...          | " ...                 | 16 " " ...          | 242     |
| James Earle ...                  | Master Ordinary ...    | " ...                 | *16 " " ...         | 137     |
| James Wilson ...                 | Second Mate ...        | " ...                 | 30 " " ...          | 243     |
| Robert Heddleston Neville ...    | Master Ordinary ...    | " ...                 | *30 " " ...         | 244     |
| William Alexander Macalister ... | Second Mate ...        | " ...                 | * 4 Oct. " ...      | 245     |
| Frederick William Highfield ...  | Master Ordinary ...    | " ...                 | *14 " " ...         | 246     |
| Charles Heilemeyer ...           | Only Mate ...          | " ...                 | 1 Nov. " ...        | 247     |
| William Henry Anwyl ...          | " ...                  | " ...                 | 22 " " ...          | 248     |
| James Campbell Arthur ...        | First Mate ...         | " ...                 | * 3 Dec. " ...      | 249     |
| Edward Harvey ...                | Only Mate ...          | " ...                 | 15 " " ...          | 250     |
| John William Cumming ...         | Master Ordinary ...    | " ...                 | *17 " " ...         | 138     |
| Richard Edward Smith ...         | " ...                  | " ...                 | *17 " " ...         | 181     |
| James Deuchrass ...              | " ...                  | " ...                 | *17 " " ...         | 251     |
| Alfred Johnston ...              | Only Mate ...          | " ...                 | *18 Jan., 1881 ...  | 252     |
| Peter Theet ...                  | Master Ordinary ...    | " ...                 | * 2 Feb. " ...      | 135     |
| Thomas Angel Fry ...             | " ...                  | " ...                 | * 3 Mar. " ...      | 216     |
| William Ross ...                 | " ...                  | " ...                 | * 3 " " ...         | 156     |
| William George Dart ...          | Second Mate ...        | " ...                 | *11 " " ...         | 253     |
| Murdoch McDonald ..              | Only Mate ...          | " ...                 | *15 " " ...         | 254     |
| Albert Ring Ringstad ...         | " ...                  | " ...                 | 22 " " ...          | 255     |
| Thomas Willoughby Shortland ...  | " ...                  | " ...                 | 30 " " ...          | 256     |
| Stephen Ellis ...                | Master ...             | Home trade ...        | 16 April, 1880 ...  | 5195    |
| James Garrick ...                | " ...                  | " ...                 | 28 " " ...          | 5196    |
| George Samuel Emtage ...         | Mate ...               | " ...                 | 17 May " ...        | 5197    |
| John Carrick Hewson ...          | Master ...             | " ...                 | 22 June " ...       | 5198    |
| Samuel Stephenson ...            | Mate ...               | " ...                 | 11 July " ...       | 5199    |
| Samuel Benney ...                | Master ...             | " ...                 | 22 " " ...          | 5174    |
| Charles Maacs ...                | Mate ...               | " ...                 | 2 Aug. " ...        | 5200    |
| Lawrence Calder ...              | " ...                  | " ...                 | 2 " " ...           | 5201    |
| James William Branford ...       | Master ...             | " ...                 | 25 " " ...          | 5202    |
| John Booth ...                   | " ...                  | " ...                 | 31 " " ...          | 5203    |
| Meredith Rountree ...            | " ...                  | " ...                 | 31 " " ...          | 5204    |
| Edward McLeod ...                | " ...                  | " ...                 | 16 Sept. " ...      | 5205    |
| Maitland Wood Grant ...          | " ...                  | " ...                 | 21 " " ...          | 5206    |
| Edward Bristow ...               | " ...                  | " ...                 | 24 " " ...          | 5207    |
| John Steel Elgie ...             | " ...                  | " ...                 | 21 Oct. " ...       | 5165    |
| Edmund Fraser ...                | " ...                  | " ...                 | 10 Nov. " ...       | 5208    |
| John Metcalfe ...                | " ...                  | " ...                 | 6 Dec. " ...        | 5209    |
| Edward Harvey ...                | " ...                  | " ...                 | 15 " " ...          | 5210    |
| Thomas Eckford ...               | Mate ...               | " ...                 | 10 Jan., 1881 ...   | 5211    |
| Caroline Frederick Maundrell ... | Master ...             | " ...                 | 2 Feb. " ...        | 5212    |
| Tasman Arthur Gibbons ...        | Mate ...               | " ...                 | 15 Mar. " ...       | 5213    |
| Edward Pearce ...                | Master ...             | " ...                 | 30 " " ...          | 5214    |
| James Martin Logan ...           | 2nd Class Engineer ... | Foreign trade ...     | *20 April, 1880 ... | 66      |
| George Kirkwood ...              | " ...                  | " ...                 | 10 May " ...        | 67      |
| Robert Rutherford Douglas ...    | " ...                  | " ...                 | 11 " " ...          | 68      |
| Benjamin Walter Glass ...        | " ...                  | " ...                 | *11 " " ...         | 69      |
| William George Lodder ...        | " ...                  | " ...                 | *26 Nov. " ...      | 70      |
| Giles William Johnson ...        | " ...                  | " ...                 | * 6 Dec. " ...      | 71      |
| William Leslie ...               | " ...                  | " ...                 | 6 " " ...           | 72      |
| William Reid Douglas ...         | " ...                  | " ...                 | 31 " " ...          | 73      |
| Alexander Munro ...              | 1st Class Engineer ... | " ...                 | * 9 Mar., 1881 ...  | 74      |
| Allan Marshall ...               | Master ...             | River trade ...       | 10 July, 1880 ...   | 3086    |
| Meredith Rountree ...            | " ...                  | " ...                 | 16 Aug. " ...       | 3037    |
| John Wade ...                    | " ...                  | " ...                 | 18 Jan., 1881 ...   | 3038    |
| William Henry Charles Green ...  | " ...                  | " ...                 | 10 Feb. " ...       | 3039    |
| John Cox ...                     | " ...                  | " ...                 | 3 Mar. " ...        | 3040    |
| Carl Gustav Bormann ...          | Engineer ...           | " ...                 | 14 April, 1880 ...  | 1328    |
| Daniel Bernard Bate ...          | " ...                  | " ...                 | 20 " " ...          | 1329    |
| John Felton Heighway ...         | " ...                  | " ...                 | 20 " " ...          | 1330    |
| Diedrich Lindemann ...           | " ...                  | " ...                 | 3 May " ...         | 1331    |
| William McKeegan ...             | " ...                  | " ...                 | 11 " " ...          | 1332    |
| Carl Leonard Olson ...           | " ...                  | " ...                 | 11 " " ...          | 1333    |
| James Cassidy ...                | " ...                  | " ...                 | 11 " " ...          | 1334    |
| William John McCullough ...      | " ...                  | " ...                 | 14 " " ...          | 1335    |
| Percy Reynolds ...               | " ...                  | " ...                 | 4 June " ...        | 1336    |
| David Hood ...                   | " ...                  | " ...                 | 8 " " ...           | 1337    |
| John Napier ...                  | " ...                  | " ...                 | 17 July " ...       | 1338    |
| Samuel R. Murray ...             | " ...                  | " ...                 | 10 Aug. " ...       | 1339    |

\* Issued under the provisions of Her Majesty's Order in Council of the 12th February, 1876, and have the same force as similar certificates issued by the Board of Trade.

RETURN of Masters, Mates, and Engineers, to whom Certificates of Competency were issued—*contd.*

| Name of Person.              | Rank.       | Class of Certificate. | Date of Issue.    | Number. |
|------------------------------|-------------|-----------------------|-------------------|---------|
| James Foote ... ..           | Engineer .. | River trade ...       | 2 Sept., 1880 ... | 1340    |
| Wallace John Massey ... ..   | " ...       | " ...                 | 21 Oct. " ...     | 1341    |
| William Johnson Gibbs ... .. | " ...       | " ...                 | 15 Nov. " ...     | 1342    |
| Arthur James ... ..          | " ...       | " ...                 | 6 Dec. " ...      | 1343    |
| Michael Clark ... ..         | " ...       | " ...                 | 10 " " ...        | 1344    |
| James Cowley ... ..          | " ...       | " ...                 | 17 " " ...        | 1345    |
| Cecil Foster Keyworth ... .. | " ...       | " ...                 | 17 " " ...        | 1346    |
| John Murray ... ..           | " ...       | " ...                 | 23 " " ...        | 1347    |
| John May ... ..              | " ...       | " ...                 | 29 " " ...        | 1348    |
| Thomas Major Lane ... ..     | " ...       | " ...                 | 17 Feb., 1881 ... | 1349    |
| William Walter Lomer ... ..  | " ...       | " ...                 | 3 Mar. " ...      | 1350    |
| Philip Alfred Weston ... ..  | " ...       | " ...                 | 3 " " ...         | 1351    |

RETURN showing the Number of Masters, Mates, and Engineers Examined during the Year ended the 31st March, 1881, distinguishing the Number of Successful and Unsuccessful Candidates.

| CLASS OF CERTIFICATE.           | AUCKLAND. |         |        | WELLINGTON. |         |        | DUNEDIN. |         |        | LYTTELTON. |         |        | THAMES. |         |        | TOTALS. |         |        |
|---------------------------------|-----------|---------|--------|-------------|---------|--------|----------|---------|--------|------------|---------|--------|---------|---------|--------|---------|---------|--------|
|                                 | Passed.   | Failed. | Total. | Passed.     | Failed. | Total. | Passed.  | Failed. | Total. | Passed.    | Failed. | Total. | Passed. | Failed. | Total. | Passed. | Failed. | Total. |
| Foreign going Masters and Mates | 11        | 11      | 22     | 4           | 1       | 5      | 12       | 1       | 13     | ...        | ...     | ...    | ...     | ...     | ...    | 27      | 13      | 40     |
| Home - trade Masters and Mates  | 10        | 1       | 11     | 8           | ...     | 8      | 2        | ...     | 2      | ...        | ...     | ...    | ...     | ...     | ...    | 20      | 1       | 21     |
| River-steamer Masters ...       | 3         | 1       | 4      | 1           | ...     | 1      | ...      | ...     | ...    | 1          | ...     | 1      | 1       | ...     | 1      | 6       | 1       | 7      |
| Sea-going Engineers ...         | 3         | ...     | 3      | 2           | 1       | 3      | 4        | ...     | 4      | ...        | ...     | ...    | ...     | ...     | ...    | 9       | 1       | 10     |
| River-steamer Engineers ...     | 14        | ...     | 14     | 8           | ...     | 8      | ...      | ...     | ...    | 3          | ...     | 3      | ...     | ...     | ...    | 25      | ...     | 25     |
| Totals ... ..                   | 41        | 13      | 54     | 23          | 2       | 25     | 18       | 1       | 19     | 4          | ...     | 4      | 1       | ...     | 1      | 87      | 16      | 103    |

RETURN showing the Cost of Maintenance of the New Zealand Lighthouses, and the Quantity of Oil consumed at each, during the Year ended the 31st March, 1881.

| Name of Lighthouse.          | Salaries.   | Oil.              |            | Stores and Contingencies. | Totals.   |
|------------------------------|-------------|-------------------|------------|---------------------------|-----------|
|                              |             | Gallons Consumed. | Value.     |                           |           |
|                              | £ s. d.     |                   | £ s. d.    | £ s. d.                   | £ s. d.   |
| Cape Maria van Diemen ... .. | 331 2 9     | 824               | 75 10 8    | 73 4 7                    | 479 18 0  |
| Tiri Tiri ... ..             | 236 6 8     | 481               | 44 1 10    | 90 7 10                   | 370 16 4  |
| Ponui Passage ... ..         | 134 13 4    | 67                | 7 1 8      | 37 12 2                   | 179 7 2   |
| Bean Rock ... ..             | 140 0 0     | 67                | 8 16 8     | 8 5 6                     | 157 2 2   |
| Portland Island ... ..       | 323 6 8     | 635               | 58 6 0     | 93 10 5                   | 475 3 1   |
| Napier Bluff ... ..          | 240 11 4    | 224               | 20 10 8    | 34 9 5                    | 295 11 5  |
| Pencarrow Head ... ..        | 196 7 10    | 734               | 67 3 10    | 147 19 7                  | 411 11 3  |
| Somes Island ... ..          | 260 8 4     | 184               | 16 17 4    | 13 0 2                    | 290 5 10  |
| Manukau Heads ... ..         | 236 5 0     | 527               | 48 6 2     | 57 12 4                   | 342 3 6   |
| Brothers ... ..              | 452 11 2    | 661               | 60 13 8    | 92 6 10                   | 605 11 8  |
| Cape Campbell ... ..         | 223 10 10   | 507               | 46 9 6     | 54 8 1                    | 324 8 5   |
| Godley Head ... ..           | 303 10 8    | 448               | 41 1 4     | 103 15 11                 | 448 7 11  |
| Akaroa Head ... ..           | 241 10 0    | 457               | 41 19 8    | 45 13 0                   | 329 2 8   |
| Moeraki ... ..               | 263 0 7     | 495               | 45 7 6     | 39 0 4                    | 347 8 5   |
| Taiaroa Head ... ..          | 242 13 4    | 424               | 38 19 2    | 36 14 6                   | 318 7 0   |
| Cape Saunders... ..          | 259 13 4    | 473               | 43 7 2     | 39 1 3                    | 342 1 9   |
| Nugget Point ... ..          | 270 13 4    | 734               | 67 5 8     | 66 5 6                    | 404 4 6   |
| Dog Island ... ..            | 384 11 8    | 750               | 68 16 10   | 156 16 6                  | 610 5 0   |
| Centre Island ... ..         | 361 8 10    | 838               | 76 16 4    | 98 14 8                   | 536 19 10 |
| Puysegur Point ... ..        | 334 10 0    | 909               | 83 6 6     | 125 14 8                  | 543 11 2  |
| Cape Foulwind ... ..         | 252 0 0     | 546               | 50 1 0     | 75 16 0                   | 377 17 0  |
| Farewell Spit ... ..         | 366 19 2    | 483               | 44 5 6     | 92 6 0                    | 503 10 8  |
| Nelson ... ..                | 268 0 0     | 244               | 22 7 4     | 18 6 5                    | 308 13 9  |
| Totals ... ..                | 6,323 14 10 | 11,712            | 1,077 12 0 | 1,601 1 8                 | 9,002 8 6 |

RETURN showing the Total Ordinary Expenditure of the Marine Department during the Financial Year ended the 31st March, 1881.

| Nature of Expenditure.                              | Details.   | Totals.    | Grand Total. |
|-----------------------------------------------------|------------|------------|--------------|
|                                                     | £ s. d.    | £ s. d.    | £ s. d.      |
| <b>HEAD OFFICE :—</b>                               |            |            |              |
| Secretary .. .. .                                   | 279 3 4    |            |              |
| Chief Clerk .. .. .                                 | 326 13 4   |            |              |
| Clerk .. .. .                                       | 186 13 4   |            |              |
| Clerk .. .. .                                       | 119 18 1   |            |              |
| Marine Engineer .. .. .                             | 280 0 0    |            |              |
| Draughtsmen .. .. .                                 | 239 3 4    |            |              |
| Engineer Surveyor .. .. .                           | 280 0 0    |            |              |
| Local Engineer Surveyors .. .. .                    | 93 6 8     |            |              |
| Examiner of Masters and Mates .. .. .               | 93 6 8     |            |              |
| Local Examiners of Masters and Mates .. .. .        | 203 10 10  |            |              |
| Inquiries into wrecks and casualties .. .. .        | 102 13 11  |            |              |
| Survey of unseaworthy ships .. .. .                 | 62 6 2     |            |              |
|                                                     |            | 2,266 15 8 | 2,266 15 8   |
| <b>HARBOURS :—</b>                                  |            |            |              |
| <b>Manukau,—</b>                                    |            |            |              |
| Salaries .. .. .                                    | 719 16 0   |            |              |
| Contingencies .. .. .                               | 49 16 9    |            |              |
| <b>Russell,—</b>                                    |            | 769 12 9   |              |
| Salaries .. .. .                                    | 284 0 0    |            |              |
| Contingencies .. .. .                               | 37 2 3     |            |              |
| <b>Whangaroa,—</b>                                  |            | 321 2 3    |              |
| Salaries .. .. .                                    | ..         | 93 6 8     |              |
| <b>Whangarei,—</b>                                  |            |            |              |
| Subsidy to ferryman .. .. .                         | 50 0 0     |            |              |
| Contingencies .. .. .                               | 2 7 6      |            |              |
| <b>Hokianga,—</b>                                   |            | 52 7 6     |              |
| Salaries .. .. .                                    | 396 10 8   |            |              |
| Contingencies .. .. .                               | 8 7 7      |            |              |
| <b>Kaipara,—</b>                                    |            | 404 18 3   |              |
| Salaries .. .. .                                    | 779 16 2   |            |              |
| Repairs to steam launch .. .. .                     | 55 19 0    |            |              |
| Contingencies .. .. .                               | 118 11 10  |            |              |
| <b>Waitara,—</b>                                    |            | 954 7 0    |              |
| Salaries .. .. .                                    | 105 0 0    |            |              |
| Contingencies .. .. .                               | 14 2 8     |            |              |
| <b>Foxton,—</b>                                     |            | 119 2 8    |              |
| Salaries .. .. .                                    | 305 9 0    |            |              |
| Contingencies .. .. .                               | 40 10 8    |            |              |
| <b>Rangitikei,—</b>                                 |            | 345 19 8   |              |
| Salaries .. .. .                                    | 140 0 0    |            |              |
| Contingencies .. .. .                               | 10 3 10    |            |              |
| <b>Wellington (6 months),—</b>                      |            | 150 3 10   |              |
| Salaries .. .. .                                    | 1,055 0 10 |            |              |
| Contingencies .. .. .                               | 16 14 8    |            |              |
| <b>Wairoa,—</b>                                     |            | 1,071 15 6 |              |
| Salaries .. .. .                                    | 99 4 11    |            |              |
| Contingencies .. .. .                               | 15 11 9    |            |              |
| <b>Wangawehi Light,—</b>                            |            | 114 16 8   |              |
| Salaries and contingencies .. .. .                  | ..         | 50 0 0     |              |
| <b>Tauranga,—</b>                                   |            |            |              |
| Salaries .. .. .                                    | 296 16 0   |            |              |
| Contingencies .. .. .                               | 92 8 6     |            |              |
| <b>Gisborne,—</b>                                   |            | 389 4 6    |              |
| Salaries .. .. .                                    | 331 6 8    |            |              |
| Contingencies .. .. .                               | 19 12 1    |            |              |
| <b>Wairau,—</b>                                     |            | 350 18 9   |              |
| Salaries .. .. .                                    | 123 4 0    |            |              |
| Contingencies .. .. .                               | 35 5 6     |            |              |
| <b>Picton,—</b>                                     |            | 158 9 6    |              |
| Salaries .. .. .                                    | 120 8 0    |            |              |
| Contingencies .. .. .                               | 38 10 3    |            |              |
| <b>Havelock,—</b>                                   |            | 158 18 3   |              |
| Salaries .. .. .                                    | ..         | 8 4 0      |              |
| <b>Nelson,—</b>                                     |            |            |              |
| Salaries .. .. .                                    | 1,209 16 8 |            |              |
| Contingencies .. .. .                               | 96 18 10   |            |              |
| Removal of Buoy Rock .. .. .                        | 76 17 0    |            |              |
| <b>Motueka,—</b>                                    |            | 1,383 12 6 |              |
| Contingencies .. .. .                               | ..         | 8 8 6      |              |
| <b>Waitapu,—</b>                                    |            |            |              |
| Salaries .. .. .                                    | 29 11 8    |            |              |
| Contingencies .. .. .                               | 4 10 0     |            |              |
| <b>Riwaka,—</b>                                     |            | 34 1 8     |              |
| Salaries and contingencies .. .. .                  | ..         | 16 12 0    |              |
| <b>Collingwood,—</b>                                |            |            |              |
| Salaries .. .. .                                    | 29 11 8    |            |              |
| Contingencies .. .. .                               | 7 6 9      |            |              |
| <b>Karamea,—</b>                                    |            | 36 17 8    |              |
| Contingencies .. .. .                               | ..         | 23 0 0     |              |
| <b>Westport,—</b>                                   |            |            |              |
| Salaries .. .. .                                    | 382 13 4   |            |              |
| Repairs to Beacon Tramway and contingencies .. .. . | 223 12 2   |            |              |
|                                                     |            | 606 5 6    |              |

RETURN showing the Total Ordinary Expenditure of the Marine Department, &c.—*continued*.

| Nature of Expenditure.                            | Details.    | Totals.    | Grand Total.       |
|---------------------------------------------------|-------------|------------|--------------------|
| <b>HARBOURS—<i>continued</i>.</b>                 |             |            |                    |
| Greymouth,—                                       | £ s. d.     | £ s. d.    | £ s. d.            |
| Salaries ... ..                                   | 406 0 0     |            |                    |
| Contingencies ... ..                              | 233 4 9     | 639 4 9    |                    |
| Hokitika,—                                        |             |            |                    |
| Salaries ... ..                                   | 673 17 4    |            |                    |
| Contingencies ... ..                              | 84 2 2      | 757 19 6   |                    |
| Okarito,—                                         |             |            |                    |
| Salaries ... ..                                   | 46 13 4     |            |                    |
| Contingencies ... ..                              | 91 2 11     | 137 16 3   |                    |
| Catlin's River,—                                  |             |            |                    |
| Salaries ... ..                                   | 116 13 4    |            |                    |
| Contingencies ... ..                              | 47 10 11    | 164 4 3    |                    |
| Waikawa,—                                         |             |            |                    |
| Salaries ... ..                                   | ...         | 46 13 4    |                    |
| Otago Graving Dock,—                              |             |            |                    |
| Wages ... ..                                      | 629 9 7     |            |                    |
| Coal ... ..                                       | 384 17 9    |            |                    |
| Stores, repairs, &c. ... ..                       | 235 12 0    | 1,249 19 4 |                    |
| Riverton,—                                        |             |            |                    |
| Salaries ... ..                                   | 90 0 0      |            |                    |
| Liabilities of Harbour Board ... ..               | 84 5 3      | 174 5 3    |                    |
| Kakanui,—                                         |             |            |                    |
| Salaries ... ..                                   | ...         | 140 0 0    |                    |
| Kaiapoi,—                                         |             |            |                    |
| Salaries ... ..                                   | 112 0 0     |            |                    |
| Contingencies ... ..                              | 10 13 9     | 122 13 9   |                    |
| Sumner,—                                          |             |            |                    |
| Salaries ... ..                                   | 112 0 0     |            |                    |
| Contingencies ... ..                              | 10 11 11    | 122 11 11  |                    |
| Akaroa,—                                          |             |            |                    |
| Salaries ... ..                                   | 23 6 8      |            |                    |
| Contingencies ... ..                              | 12 12 0     |            |                    |
| Grant for wharf repairs ... ..                    | 424 7 10    | 460 6 6    |                    |
| Kaikoura,—                                        |             |            |                    |
| Salaries ... ..                                   | 70 0 0      |            |                    |
| Contingencies ... ..                              | 22 16 3     | 92 16 3    |                    |
| Martin's Bay,—                                    |             |            |                    |
| Salaries ... ..                                   | 86 6 4      |            |                    |
| Contingencies ... ..                              | 8 0 10      | 94 7 2     |                    |
| Stewart Island (Half-Moon Bay),—                  |             |            |                    |
| Salary ... ..                                     | ...         | 4 10 0     |                    |
| Opunake,—                                         |             |            |                    |
| Contingencies ... ..                              | ...         | 17 13 8    |                    |
| Sir John Cooke's fees for harbour reports ... ..  | ...         | 2,044 5 6  |                    |
| Port lights ... ..                                | ...         | 19 17 2    |                    |
| General harbour contingencies ... ..              | ...         | 86 6 11    | 13,997 17 1        |
| <b>LIGHTHOUSES:—</b>                              |             |            |                    |
| Salaries ... ..                                   | 6,323 14 10 |            |                    |
| Lightkeepers' travelling expenses ... ..          | 35 9 4      |            |                    |
| Oil ... ..                                        | 1,543 14 11 |            |                    |
| Stores and contingencies ... ..                   | 1,601 1 8   |            |                    |
| Lighthouse artificer (5 months) ... ..            | 81 13 4     | ...        | 9,585 14 1         |
| Departmental travelling expenses ... ..           | ...         | 292 13 0   |                    |
| Coastal buoys and beacons ... ..                  | ...         | 44 13 7    |                    |
| Charts ... ..                                     | ...         | 76 12 3    |                    |
| Pension of widow of lightkeeper Deck ... ..       | ...         | 23 19 10   |                    |
| Sundries ... ..                                   | ...         | 243 14 2   |                    |
| "Stella," s.s. ... ..                             | ...         | ...        | 681 12 10          |
| "Hinemoa," s.s. ... ..                            | ...         | ...        | 4,707 14 0         |
| Naval Training School at Kohimarama (4 months),—† |             |            | 4,534 6 1*         |
| Salaries and wages ... ..                         | 246 12 3    |            |                    |
| Rent of station ... ..                            | 139 4 0     |            |                    |
| Stores, provisions, &c. ... ..                    | 423 7 10    |            |                    |
| Weather-reporting expenses (6 months)‡ ... ..     | ...         | ...        | 809 4 1            |
|                                                   |             |            | 448 1 9            |
|                                                   |             |            | <b>£37,031 5 7</b> |

\* The balance of the cost of the "Hinemoa," £2,385 6s. 5d., was charged against Defence vote.

† Transferred to Education Department.

‡ Transferred to Colonial Secretary's Office.

## DESCRIPTIVE RETURN of New Zealand Coastal Lighthouses.

| Name of Lighthouse.   | Order of Apparatus.    | Description. | Period of Revolving Light. | Colour of Light.                               | Tower, Built of | Dwellings, Built of | Date first Lighted. |
|-----------------------|------------------------|--------------|----------------------------|------------------------------------------------|-----------------|---------------------|---------------------|
| Cape Maria Van Diemen | 1st order dioptric     | Revolving    | 1'                         | White ...                                      | Timber          | Timber              | 24 Mar., 1879       |
| Tiri Tiri ...         | ..                     | Fixed        | ...                        | Red, to show over Columbia Reef                | ..              | ..                  | ...                 |
| Ponui Passage ...     | 2nd order dioptric     | ..           | ..                         | White ..                                       | Iron            | ..                  | 1 Jan., 1865        |
| ..                    | 5th                    | ..           | ..                         | ..                                             | Timber          | ..                  | 29 July, 1871       |
| Portland Island       | 2nd                    | Revolving    | 30"                        | ..                                             | ..              | ..                  | 10 Feb., 1878       |
| ..                    | ..                     | Fixed        | ...                        | Red, to show over Bull Rock                    | ..              | ..                  | ...                 |
| Pencarrow Head ...    | 2nd order dioptric     | ..           | ..                         | White ..                                       | Iron            | ..                  | 1 Jan., 1859        |
| Manukau Heads ...     | 3rd                    | ..           | ...                        | ..                                             | Timber          | ..                  | 1 Sept., 1874       |
| Brothers              | 2nd                    | Flashing     | 10"                        | ..                                             | ..              | ..                  | 24 " 1877           |
| ..                    | ..                     | Fixed        | ..                         | Red, over Cook Rock                            | ..              | ..                  | ...                 |
| Cape Campbell ...     | 2nd order dioptric     | Revolving    | 1'                         | White ...                                      | Timber          | Timber              | 1 Aug., 1870        |
| Godley Head           | 2nd                    | Fixed        | ..                         | ..                                             | Stone           | Stone               | 1 April, 1865       |
| Akaroa ...            | 2nd                    | Flashing     | 10"                        | ..                                             | Timber          | Timber              | 1 Jan., 1880        |
| Moeraki               | 3rd                    | Fixed        | ...                        | ..                                             | ..              | ..                  | 22 April, 1878      |
| Taiaroa Head          | 3rd                    | ..           | ..                         | Red ..                                         | Stone           | Stone               | 2 Jan., 1865        |
| Cape Saunders         | 2nd                    | Revolving    | 1                          | White ..                                       | Timber          | Timber              | 1 " 1880            |
| Nugget Point          | 1st                    | Fixed        | ...                        | ..                                             | Stone           | Stone               | 4 July, 1870        |
| Dog Island            | 1st order catadioptric | Revolving    | 30"                        | ..                                             | ..              | ..                  | 1 Aug., 1865        |
| Centre Island         | 1st order dioptric     | Fixed        | ...                        | White, with red arcs over inshore dangers      | Timber          | Timber              | 16 Sept., 1878      |
| Puysegur Point ...    | 1st                    | Flashing     | 10"                        | White ..                                       | ..              | ..                  | 1 Mar., 1879        |
| Cape Foulwind ...     | 2nd                    | Revolving    | 30"                        | ..                                             | ..              | ..                  | 1 Sept., 1876       |
| Farewell Spit ...     | 2nd                    | ..           | 1'                         | White, with red arc over Spit end              | ..              | ..                  | 17 June, 1870       |
| Nelson                | 4th                    | Fixed        | ...                        | White, with red arc to mark limit of anchorage | Iron            | ..                  | 4 Aug., 1862        |
| Cape Egmont ...       | 2nd                    | ..           | ...                        | White ...                                      | ..              | ..                  | 1 Aug., 1881        |

RETURN showing the Fees, &c., received under the Shipping and Seamen's Act, the Merchant Shipping Act, the Fish Protection Act, the Inspection of Machinery Acts, for Pilotage and Port Charges, for the use of the Otago Graving Dock, and from Sale of Charts, &c.

| Nature of Receipt.                                     | Amount.              |
|--------------------------------------------------------|----------------------|
| Shipping and Seamen's Act, 1877 (including light dues) | £ s. d.<br>8,436 0 5 |
| Merchant Shipping Act ..                               | 99 7 5               |
| Fish Protection Act                                    | 106 0 0              |
| Pilotage and port charges                              | 2,723 19 3           |
| Otago graving-dock dues                                | 2,178 19 11          |
| Sale of charts and "New Zealand Pilot"                 | 59 4 0               |
| Ration money and services rendered by "Hinemoa" ..     | 287 7 5              |
| Ditto by "Stella" ..                                   | 51 8 6               |
| Sale of port lights to Harbour Boards                  | 155 0 0              |
| Sundries                                               | 4 13 8               |
| Total                                                  | 14,102 0 6           |

RETURN showing the Expenditure on new Lighthouses, &c., out of Immigration and Public Works Loan, during the Year ended the 31st March, 1881.

| Nature of Expenditure.      | Amount.            |
|-----------------------------|--------------------|
| Cape Saunders Lighthouse    | £ s. d.<br>40 18 6 |
| Store for Marine Department | 73 16 3            |
| Tory Channel lights         | 50 0 0             |
| Hokitika Lighthouse         | 51 19 6            |
| Cape Egmont Lighthouse      | 2,418 12 7         |
| Total                       | 2,635 6 10         |

RETURN showing the Amount of Pilotage, Port Charges, &c., collected during the Year ended the 30th June, 1881.

| Name of Port.             | Pilotage.              | Port Charges, &c.    | Total.               |
|---------------------------|------------------------|----------------------|----------------------|
| Auckland*                 | £ s. d.<br>1,229 16 11 | £ s. d.<br>1,248 8 9 | £ s. d.<br>2,478 5 8 |
| Onehunga                  | 3 10 8                 | 141 17 9             | 145 8 5              |
| Kaipara                   | 228 5 10               | 264 11 4             | 492 17 2             |
| Thames*                   | 29 16 6                | 50 14 7              | 80 11 1              |
| Russell                   | 3 19 8                 | ..                   | 3 19 8               |
| Mongonui                  | ..                     | 16 4 6               | 16 4 6               |
| Hokianga                  | 47 15 6                | ..                   | 47 15 6              |
| Tauranga                  | 11 17 0                | ..                   | 11 17 0              |
| Gisborne                  | 47 5 7                 | ..                   | 47 5 7               |
| New Plymouth*             | 25 16 6                | 25 15 4              | 51 11 10             |
| Waitara                   | 48 5 0                 | 54 8 3               | 102 13 3             |
| Wanganui*                 | 405 10 0               | ..                   | 405 10 0             |
| Rangitikei                | 9 6 8                  | ..                   | 9 6 8                |
| Foxton                    | 97 6 4                 | ..                   | 97 6 4               |
| Patea*                    | 28 6 10                | 9 7 3                | 37 14 1              |
| Wellington†               | 764 6 7                | 1,317 19 9           | 2,082 6 4            |
| Wairoa                    | 89 19 6                | ..                   | 89 19 6              |
| Napier*                   | 855 4 9                | 468 17 7             | 1,324 2 4            |
| Nelson                    | 677 13 5               | ..                   | 677 13 5             |
| Hokitika                  | 19 7 6                 | ..                   | 19 7 6               |
| Lyttelton*                | 4,523 6 3              | 2,303 3 5            | 6,826 9 8            |
| Timaru*                   | ..                     | 60 8 9               | 60 8 9               |
| Riverton*                 | 4 15 6                 | 5 0 0                | 9 15 6               |
| Oamaru*                   | ..                     | 505 2 1              | 505 2 1              |
| Kakanui                   | ..                     | 3 0 0                | 3 0 0                |
| Dunedin*                  | 1,969 7 5              | 1,212 7 10           | 3,181 15 3           |
| Invercargill (New River)* | ..                     | 50 7 4               | 50 7 4               |
| Bluff*                    | 536 15 5               | 359 7 4              | 896 2 9              |
| Totals                    | 11,657 15 4            | 8,097 1 10           | 19,754 17 2          |

\* Harbour Board revenue. † Harbour Board revenue since the 1st October, 1880.

## RETURN of WRECKS and CASUALTIES to SHIPPING reported to the Marine Department, from the 1st April, 1880, to the 31st March, 1881.

| Date of Casualty.          | Name of Vessel; also, Age and Class.                     | Big.     | Tonnage | Number of |              | Nature of                             |                                | Place where Casualty occurred.                                 | Wind.      |                 | Decision of Court of Inquiry.                                                                                                                         | Name of Master.              |
|----------------------------|----------------------------------------------------------|----------|---------|-----------|--------------|---------------------------------------|--------------------------------|----------------------------------------------------------------|------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
|                            |                                                          |          |         | Crew      | Passengers.  | Cargo.                                | Casualty.                      |                                                                | Direction. | Force.          |                                                                                                                                                       |                              |
| 1880.<br>April 18          | Kakanui, s.s., 1 year                                    | Schooner | 57      | 8         | 1            | Grain                                 | Stranded; slight damage        | At entrance to Mataura River, Middle Island of New Zealand     | N.W        | Gentle breeze   | Casualty caused by blind rollers, which came in as vessel was crossing the bar                                                                        | Charles Frederick Sundstrom. |
| "                          | 22 Manawatu, p.s., 7 years                               | "        | 103     | ...       | ...          | General...                            | Crown of furnace fell in       | Near Kapiti Island, Cook Strait                                | ...        | ...             | Boiler salted up through negligence or carelessness of engineer, John Symons. His certificate suspended for three months                              | Peter Doile.                 |
| "                          | 24 Anna Bella, 11 years                                  | Barque   | 334     | 11        | ...          | Copra, talow, kerosene shale          | Loss of bulwarks, &c.          | Lat. 48° 10' S.; long. 175° 35' E.                             | S.W        | Whole gale      | Heavy sea struck the vessel and carried away the bulwarks, &c.                                                                                        | James Innes.                 |
| "                          | 29 Pareora, 25 years                                     | Ship     | 879     | ...       | ...          | General...                            | Loss of life                   | Lat. 11° 10' S.; long. 36° 50' W                               | ...        | Moderate breeze | Apprentice fell overboard and was drowned                                                                                                             | Robert Power.                |
| Unkn'n                     | Acadia, 5½ years                                         | Schooner | 53      | 5         | 3            | Ballast                               | Unknown                        | Unknown                                                        | ...        | ...             | Vessel left Hawke's Bay for Auckland on the 9th March, 1880, and has not been heard of since                                                          | Duncan McDona-               |
| May 4                      | Kina, s.s., 3½ years                                     | Ketch    | 39      | 5         | 2            | Wool, kauri gum, &c.                  | Stranded; slight damage        | On beach outside bar of Waipatu River, 14 miles from Whangarei | N.E.       | Strong breeze   | Three heavy seas struck the vessel while she was on the bar and drove her on to the beach                                                             | Norman McKenzie.             |
| Unkn'n                     | Colleen Bawn, 18 years                                   | Schooner | 29      | 4         | 3 (supposed) | Ballast                               | Supposed foundered; total loss | Supposed in Cook Strait                                        | Unknown    | Unknown         | Vessel left Wellington for Havelock on the 1st May, 1880, and has not been heard of since. She is supposed to have foundered in a gale on the 6th May | Louis Pike.                  |
| "                          | 7 Forest Queen, 10 years                                 | Ketch    | 51      | 4         | ...          | Railway carriages, telegraph material | Stranded; partial loss         | On inner rock in inner passage at Jackson Head                 | S. to S.E. | Strong gale     | Vessel struck on rock as she had not sufficient sail to stay her in the baffling wind                                                                 | John Bolham.                 |
| "                          | 10 { Columbia, 8 years<br>John Bull, 20 years            | Schooner | 46      | 3         | ...          | Drain pipes                           | Collision; partial loss        | In Auckland Harbour                                            | N.E.       | Strong gale     | The "John Bull" did not let go a second anchor in time                                                                                                | George William Conway.       |
| Feb. 9, 14, May 11, May 12 | { Loch Dee, 9 years, A1<br>Grafton, s.s., 26 years       | Barque   | 484     | 11        | ...          | Ballast                               | Collision; partial loss        | ...                                                            | ...        | ...             | ...                                                                                                                                                   | Philip Hawken.               |
| "                          | 14 Telegraph, 4 years                                    | "        | 700     | 17        | 21           | General                               | Loss of life                   | On voyage from London to Auckland                              | ...        | ...             | ...                                                                                                                                                   | John Black.                  |
| "                          | 18 { Rotorua, s.s., 4 years, 100 A1<br>Clematis, 8 years | Schooner | 242     | 22        | 8            | Coal                                  | Stranded; slight damage        | On bar of the Bulwer River                                     | N.W        | Light           | Insufficient water on the bar                                                                                                                         | Henry Johnson.               |
| "                          | 20 Anna, 5 years                                         | "        | 39      | 4         | ...          | Drain-pipes                           | Stranded; partial loss         | North Spit of Waitara River                                    | Westerly   | Moderate        | Tow-line parted                                                                                                                                       | Edward Keane.                |
| "                          | 21 Transport, 15 years                                   | Brig     | 576     | 39        | 42           | General                               | Collision; slight              | 4 miles north-east of Godley Head                              | E.         | Gentle breeze   | "Rotorua" overtook the "Clematis" and ran into her                                                                                                    | James Tozer.                 |
| "                          | 22 Anna, 5 years                                         | Ketch    | 67      | 5         | ...          | Potatoes                              | Collision; partial loss        | ...                                                            | ...        | ...             | ...                                                                                                                                                   | Peter Johnson.               |
| "                          | 23 Anna, 5 years                                         | "        | 27      | 3         | ...          | General                               | Supposed capsized; total loss  | Vessel picked up bottom upwards at entrance to Bluff Harbour   | ...        | ...             | ...                                                                                                                                                   | Stephen Tall.                |
| "                          | 24 Transport, 15 years                                   | Brig     | 307     | 10        | ...          | Timber                                | Stranded; partial loss         | West Head, Port William, Stewart Island                        | S.         | Light air       | Command of vessel lost on account of wind falling as she was going through channel between West Head and foul ground                                  | James Matthews.              |

|         |                                |            |     |     |     |                     |                         |                       |                                                              |         |               |                                                                                                                                                                                                                                                                                                                                                                                                   |                       |
|---------|--------------------------------|------------|-----|-----|-----|---------------------|-------------------------|-----------------------|--------------------------------------------------------------|---------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| May 22  | Advance, 5 years               | Schooner   | 59  | 5   | ... | Timber ...          | Stranded; partial loss  | ...                   | Between North and South Spits, Wainakari River               | S.S.W   | ...           | Wind suddenly fell, and current drove vessel ashore                                                                                                                                                                                                                                                                                                                                               | George Loverock.      |
| "       | Fanny Thornton, 3 years        | Ketch ...  | 80  | 5   | ... | "                   | Stranded; total loss    | ...                   | Just outside of South Head, Hokianga Harbour                 | W.N.W.  | Light breeze  | Vessel refused to stay owing to sudden falling of the wind, and, there being no room to wear, she drifted ashore                                                                                                                                                                                                                                                                                  | Charles McBurney.     |
| Unkn'wn | Poneke, 2 years                | Schooner   | 80  | 6   | ... | Ballast ...         | Unknown                 | Supposed 6; all hands | Unknown ...                                                  | Unknown | ...           | Vessel left Onehunga for Picton on the 11th June; was after being seen off Greymouth, and has not since been heard of                                                                                                                                                                                                                                                                             | James Lee.            |
|         | Three Brothers, 18 years       | Cutter ... | 26  | 3   | ... | Firewood            | "                       | Supposed 3; all hands | "                                                            | Unknown | ...           | Vessel left Great Barrier Island for Auckland on the 2nd July, and has not since been heard of                                                                                                                                                                                                                                                                                                    | Thomas Blair.         |
| July 5  | Wild Duck, 12 years            | Ketch ...  | 43  | 4   | ... | Timber and cement   | Stranded; partial loss  | ...                   | Guard's Bay                                                  | S.E.    | Hurricane     | Master beached vessel to prevent her becoming a total wreck, as gale was driving her ashore                                                                                                                                                                                                                                                                                                       | Samuel Phipps.        |
| Unkn'wn | Jane Hannah, 10 years          | Schooner   | 52  | 4   | ... | Timber ...          | Stranded; total loss    | Supposed 4; all hands | Inside Heads of Akaroa Harbour                               | ...     | ...           | Vessel supposed to have been driven ashore by a storm on the 3rd or 4th July                                                                                                                                                                                                                                                                                                                      | D. Currie.            |
| "       | Kennedy, s.s., 15 years        | "          | 138 | 17  | 10  | General...          | Stranded; partial loss  | ...                   | Entrance to the Grey River                                   | Calm    | ...           | Casualty caused by the action of the signalman in recalling the vessel, and directing her to go northward to entrance to channel, and then giving the signal, "Watch for a smooth," further leading the master to believe that he was to cross the bar. Signalman censured                                                                                                                        | James Dillon.         |
| "       | Wanganui, 6 years              | "          | 70  | 6   | ... | "                   | Stranded; slight damage | ...                   | At the entrance to the Hokiitika River                       | "       | ...           | A following sea so slackened the tow-rope that the vessel went ashore before the steamer could tighten the rope                                                                                                                                                                                                                                                                                   | John Blaney.          |
| "       | Lizzie Guy, 9 years            | Brigantine | 85  | 5   | 1   | Timber ...          | Loss of life            | 1                     | 80 miles east of Hokiitika                                   | N.E.    | Strong gale   | A heavy sea swept over the vessel, and washed C. Laird, the mate, overboard                                                                                                                                                                                                                                                                                                                       | James Stevens.        |
| "       | Annie Hill, 4 years            | Schooner   | 121 | 7   | ... | Coal ...            | "                       | 1                     | 100 miles north-west of South West Cape, Middle Island, N.Z. | "       | Storm ...     | A heavy sea broke on board, and washed the master overboard                                                                                                                                                                                                                                                                                                                                       | George McKay.         |
| "       | Malay, 18 years                | Barque ... | 328 | 10  | ... | "                   | Stranded; partial loss  | ...                   | On rock at outer end of Barrett's Reef, Wellington Harbour   | N.W.    | Fresh breeze  | Although the accident occurred directly through a sudden change of wind, still blame must attach to Captain Holm for placing his vessel in such a critical position as to render her at the mercy of any flaw in a light breeze                                                                                                                                                                   | Ferdinand Holm.       |
| "       | Beautiful Star, s.s., 18 years | Schooner   | 146 | ... | ... | "                   | Loss of life            | 1                     | Two miles from Oamaru                                        | ...     | ...           | Error of judgment of the master in taking the bar with a heavy sea on                                                                                                                                                                                                                                                                                                                             | Frederick Jones.      |
| "       | Ino, s.s., 6 years             | Ketch ...  | 31  | 6   | ... | Grain ...           | Stranded; partial loss  | ...                   | Mouth of the Clutha River                                    | ...     | Light air     | The master was justified in entering the river in face of the signal, "Bar dangerous," on account of the unsavoury condition of his vessel's appointments                                                                                                                                                                                                                                         | George Campbell.      |
| "       | Julius Vogel, 7 years          | Schooner   | 56  | 5   | ... | Coal ...            | Stranded; partial loss  | ...                   | North spit of the Waitara River                              | E.N.E.  | Strong breeze | Force of wind made chains part, and drove vessel ashore                                                                                                                                                                                                                                                                                                                                           | John Jeffery Cullen.  |
| Aug. 7  | Julia Pryce, 8 years           | "          | 41  | 3   | ... | Timber ...          | Stranded; partial loss  | ...                   | Tutakaka, north east coast of North Island                   | N.E.    | Gale ...      | Cable parted while vessel was at anchor. It was of more than usual strength, and should not have parted had it been properly secured, as the night was fine and calm, occasionally being squally. The master, who had undertaken to keep the anchor watch, went to sleep in his cabin. Evidence of master and mate untrustworthy and unreliable. Master ordered to pay costs of inquiry, £35 19s. | Henry Wulff.          |
| "       | Sarah and Mary, 8½ years       | Ketch ...  | 40  | 4   | ... | New Zealand produce | Stranded; total loss    | ...                   | On west side of Motuara Island, Queen Charlotte Sound        | "       | Fresh breeze  |                                                                                                                                                                                                                                                                                                                                                                                                   | William Penny Forman. |

RETURN of WRECKS and CASUALTIES to SHIPPING reported to the Marine Department, &c.—*continued*.

| Date of Casualty. | Name of Vessel; also, Age and Class. | Rig.       | Register | Number of |             | Nature of   |                          | Number of Lives Lost. | Place where Casualty occurred.                             | Wind.      |                 | Decision of Court of Inquiry.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Name of Master.   |
|-------------------|--------------------------------------|------------|----------|-----------|-------------|-------------|--------------------------|-----------------------|------------------------------------------------------------|------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
|                   |                                      |            |          | Crew      | Passengers. | Cargo.      | Casualty.                |                       |                                                            | Direction. | Force.          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                   |
| Aug. 14           | Rowena, s.s., 8 years                | Schooner   | 74       | 11        | 10          | Sheep ...   | Stranded; partial loss   | ...                   | North Spit of Waitara River                                | S.W        | Light air       | Heavy sea caused the vessel to strike on the bar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Frank Amodeo.     |
| " 14              | Forest Queen, 8 years                | Ketch ...  | 51       | 4         | ...         | Grass-seed  | Stranded; partial loss   | ...                   | North Spit of Waitara River                                | ...        | ...             | cut the tow-line, which caused the "Forest Queen" to go ashore                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Frederick Renner. |
| " 26              | Annie Melhuish, 31 years             | Barque ... | 344      | ...       | ...         | Coal ...    | Loss of life             | 1                     | Lat. 38° 5' S., long. 165° 57' E.                          | ...        | ...             | Man lost overboard                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Thomas Kay.       |
| " 26              | Southern Queen, 19 years             | Schooner   | 19       | 2         | ...         | Limestone   | Stranded; total loss     | 2                     | On reef near the anchorage on northern side of Anuri Bluff | N.W        | Storm           | Cable parted and storm drove the vessel on to the reef                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | William Shephard. |
| " 31              | Hinemoa, s.s., 4 years               | "          | 282      | ...       | ...         | ...         | Collision; slight damage | ...                   | Off Cape Horn, Manukau Harbour                             | ...        | ...             | The conduct of the captains of both vessels contributed to the collision. It would have been more advisable for the captain of the "Hinemoa" not to have attempted to pass the "Taiaroa" while rounding the point. The captain of the "Taiaroa," although technically on his right course, might have avoided the collision by steadying his helm sooner. It is probable that an eddy caught the "Taiaroa's" port bow and caused her to come round more quickly than she should have done. The case does not call for the cancellation or suspension of either of the masters' certificates, there being no evidence of carelessness, negligence, or recklessness | John Fairchild.   |
| "                 | Taiaroa, s.s., 5 years               | "          | 228      | ...       | ...         | General...  | Collision; no damage     | ...                   | ...                                                        | ...        | ...             | ...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | James Malcolm.    |
| "                 | Stafia, 6 years ...                  | Cutter ... | 11       | ...       | ...         | ...         | Stranded; total loss     | ...                   | On outer reef, Tonga Harbour                               | ...        | ...             | ...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ...               |
| Sept. 1           | Kauri, 9 months                      | Schooner   | 47       | 3         | ...         | Timber ...  | Stranded; total loss     | ...                   | Alia Alia Rock, north-west side of island of Waiheke       | E.         | ...             | Vessel having sprung a leak, master pushed on in order to beach her, but, owing to the thickness of the weather, he accidentally ran ashore                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | George Tupp.      |
| " 3               | Clara Hargrave, 24 years             | Barque ... | 338      | 10        | ...         | "           | Stranded; slight damage  | ...                   | Middle bank, Kaipara Harbour                               | ...        | ...             | ...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | John James.       |
| " 7               | Rangitira, s.s., 17 years            | Schooner   | 196      | 22        | 8           | General...  | Stranded; total loss     | ...                   | On a rock about midway between Waitara and New Plymouth    | ...        | Light           | Master reprimanded for not having a better look-out kept. Chief officer, Thomas Swede, guilty of gross carelessness, amounting almost to incompetency; his certificate suspended for six months                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Edward Harvey.    |
| " 8               | Alma, 26 years...                    | "          | 163      | 8         | ...         | Coal ...    | Stranded; partial loss   | ...                   | On the bar of the Grey River                               | S.W        | Moderate breeze | Casualty caused through tow-line slipping while vessel being towed out                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | James Walters.    |
| " 28              | Annie Wilson, 1 year                 | "          | 150      | 7         | ...         | Ballast ... | Stranded; slight damage  | ...                   | On the bar of the Hokitika River                           | S.         | Light           | Vessel washed on beach through tug not being powerful enough to tow her through the breakers, owing to the sudden rising of the sea                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Ole Helgeson.     |

|         |                                               |            |     |     |     |                    |                                |              |                                                                   |      |                 |                                                                                                                                                                                                                                                                                                                                               |                                               |
|---------|-----------------------------------------------|------------|-----|-----|-----|--------------------|--------------------------------|--------------|-------------------------------------------------------------------|------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| Oct. 4  | Hannah Broomfield, 15 years                   | Brigantine | 120 | 8   | ... | Timber and fruit   | Stranded; total loss           | ...          | Pencarrow Head, Wellington Harbour                                | N.W  | ...             | No blame attached to master. From previous experience of the vessel he had a right to expect that she would answer her helm                                                                                                                                                                                                                   | Frederick William Highfield.                  |
| " 7     | James A. Stewart, 4 years                     | "          | 179 | 7   | ... | Timber ...         | Stranded; total loss           | 7; all hands | North Spit, Kaipara Heads                                         | Calm | ...             | Wind dropped, and vessel drifted into breakers.                                                                                                                                                                                                                                                                                               | John McClellin.                               |
| " 27    | Wahapu, 16 years                              | Cutter ... | 15  | ... | ... | Firewood           | Supposed foundered; total loss | ...          | In Poverty Bay                                                    | S.E. | Gale            | Vessel swept down the river by a heavy fresh, and is supposed to have foundered                                                                                                                                                                                                                                                               | William Harris.                               |
| " 27    | Lochnagar, 18 years                           | Barque ... | 464 | 14  | 1   | Wool and manganese | Stranded; partial loss         | ...          | On the beach at Gisborne, Poverty Bay                             | "    | Storm           | Vessel was riding at anchor without sails when a storm sprung up. If sails had been on there was too little ballast on board to have put to sea. Had vessel been provided with coir spring the chain might not have snapped                                                                                                                   | George Perriam.                               |
| Nov. 27 | Jane Anderson, 12 years<br>(Ellen Curran ...) | Schooner   | 96  | 6   | ... | Timber ...         | Stranded; partial loss         | ...          | On bar of Patea River                                             | N.W  | Moderate breeze | Insufficient water on the bar                                                                                                                                                                                                                                                                                                                 | Jacob Eckhoff.                                |
| Dec. 1  | Kina, s.s., 4 yrs.                            | Ketch ...  | 39  | 3   | 25  | ...                | Collision; partial loss        | ...          | Off the Watchman, Auckland Harbour                                | S.W  | Fresh           | Collision caused through steamer not keeping a good look-out, and in not porting her helm when the cutter was seen so close. Certificate of the master of the "Kina" suspended for six months, and he was ordered to pay the costs of the inquiry                                                                                             | Robert Morton.                                |
| " 3     | Active, 3½ years                              | Brigantine | 152 | 8   | 6   | General ...        | Stranded; total loss           | ...          | On Falelu Reef, off Apia, Samoa                                   | Calm | ...             | Vessel drifted on to the rocks through there being no wind                                                                                                                                                                                                                                                                                    | Frank Hedges.                                 |
| " 18    | Star of the South, s.s., 17 years             | Schooner   | 175 | 12  | 12  | "                  | Stranded; slight damage        | ...          | At the entrance of the Hokitika River                             | W.   | Moderate breeze | Force of the current drove vessel on to the spit                                                                                                                                                                                                                                                                                              | Henry Edward Scott.                           |
| " 31    | Piako, s.s., 3 years                          | Lug-sail   | 8   | 4   | 2   | Coal               | Stranded; partial loss         | ...          | In Morgan's Bay, inside Whangarei Heads                           | Calm | ...             | Vessel struck on a rock and foundered in shallow water                                                                                                                                                                                                                                                                                        | Charles Stephen Bascand.                      |
| Jan. 2  | Lady Don, 15 years                            | Schooner   | 68  | 6   | ... | Timber ...         | Stranded; total loss           | ...          | Northward of Waipua River, about 12 miles south of Hokianga Heads | N.W  | Strong          | Vessel sprung a leak and was beached to save life                                                                                                                                                                                                                                                                                             | Chas. E. Browne.                              |
| " 26    | Fanny Kelly, 7 years                          | Ketch ...  | 35  | 4   | ... | "                  | Stranded; slight damage        | ...          | On a reef just inside Whangaruru Heads                            | S.E. | Heavy           | Vessel went on to reef when going to anchorage, it being dark at the time                                                                                                                                                                                                                                                                     | Peter Webb Pullman.                           |
| " 26    | Silver Cloud, 6 years                         | Schooner   | 292 | 9   | ... | Coal               | Stranded; partial loss         | ...          | On boulder bank at western side of entrance to Napier Harbour     | Calm | ...             | Stranding was an unavoidable accident which could not be foreseen or provided against, and was caused by a sudden rush of the current round the corner of the breakwater. The pilot exercised a sound discretion in attempting to enter the inner harbour when he did, and he and Captain Balle did all they could to retrieve the misfortune | George Williams.                              |
| " 29    | Planet, s.s., 6 months<br>(Edith, 18 years)   | "          | 13  | 3   | 3   | Ballast ...        | Collision; partial loss        | ...          | In Auckland Harbour                                               | N.E. | Moderate        | Collision caused through the "Planet" attempting to cross the "Edith's" bow                                                                                                                                                                                                                                                                   | Charles Balle.                                |
| " 29    | Planet, s.s., 6 months<br>(Edith, 18 years)   | "          | 63  | ... | ... | "                  | ...                            | ...          | ...                                                               | ...  | ...             | ...                                                                                                                                                                                                                                                                                                                                           | J. C. Hewson.                                 |
| Feb. 4  | Shag, s.s., 6 years                           | Ketch ...  | 31  | 6   | ... | Coal               | Stranded; partial loss         | ...          | On rocks off Shag Point, east coast of Middle Island              | S.   | Strong gale     | Vessel went on to rocks through propeller breaking                                                                                                                                                                                                                                                                                            | George Jackson Hughes.<br>Edward Thomas Wing. |

RETURN of WRECKS and CASUALTIES to SHIPPING reported to the Marine Department, &c.—*continued*.

| Date of Casualty. | Name of Vessel; also, Age and Class. | Reg. No. | Number of |             | Nature of             |                          | Number of Lives Lost. | Place where Casualty occurred.                           | Wind.      |                 | Decision of Court of Inquiry.                                                                                                                                                                                                                                                                                          | Name of Master.         |
|-------------------|--------------------------------------|----------|-----------|-------------|-----------------------|--------------------------|-----------------------|----------------------------------------------------------|------------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
|                   |                                      |          | Crew      | Passengers. | Cargo.                | Casualty.                |                       |                                                          | Direction. | Force.          |                                                                                                                                                                                                                                                                                                                        |                         |
| Feb. 13           | Charles Edward, p.s., 17 years       | 126      | 18        | 10          | General...            | Stranded; partial loss   | ...                   | Two miles south of the Steeples, off Cape Foulwind       | Calm       | ...             | Error in judgment on the part of the master in not keeping farther out                                                                                                                                                                                                                                                 | Thomas well.            |
| " 21              | Clematis, 16 yrs.                    | 249      | 10        | ...         | Timber ...            | Stranded; total loss     | ...                   | On a rock off Long Look-out Point, Banks Peninsula       | S.W.       | Moderate breeze | Error in judgment on part of master in keeping too close to land. Master ordered to pay costs of inquiry                                                                                                                                                                                                               | Henry Bowden            |
| " 22              | Albion, s.s., 18 years               | 591      | 39        | 100         | General...            | Collision; slight damage | ...                   | Off Port Charles, north-east coast of North Island, N.Z. | S.E.       | Fresh ...       | Smoke of steamer rendered the schooner invisible. Master of schooner should have gone about as soon as his vessel was enveloped in the steamer's smoke. Had the schooner's helm been put hard down immediately on the steamer's light being seen, the collision would not have been so serious                         | Francis George Garrard. |
| " 23              | Isabella Pratt, 6 years              | 71       | 6         | ...         | Ballast ...           | Collision; total loss    | ...                   | ...                                                      | ...        | ...             | Man knocked overboard by mainsail                                                                                                                                                                                                                                                                                      | William Cross.          |
| " 27              | Alert, 7 years ...                   | 45       | 13        | ...         | Ballast ...           | Loss of life only        | 1                     | Lat. 50° 45' S., long. 166° 20'                          | N.W.       | ...             | Collision caused through negligence or want of caution on the part of both vessels. The lookout on board the "Lyttelton" was insufficient; and the schooner's light was not hoisted where it could best be seen. Costs of inquiry to be divided                                                                        | Charles Ratray.         |
| " 27              | Lyttelton, p.s., 3 years             | 39       | 7         | 2           | Ballast ...           | Collision; slight damage | ...                   | In Lyttelton Harbour                                     | S.W.       | Gentle breeze   |                                                                                                                                                                                                                                                                                                                        | John William Clark.     |
| Mar. 3            | Aspasia, 15 yrs.                     | 45       | 5         | 1           | Produce and timber    | ...                      | ...                   | ...                                                      | ...        | ...             | The mate, Thomas Eckford, committed a breach of discipline by leaving the vessel in charge of a seaman instead of the proper officer. His certificate suspended for six months                                                                                                                                         | Michael Moore.          |
| " 3               | Molaka, s.s., 3 years                | 20       | 6         | ...         | Iron-wire and sulphur | Stranded; partial loss   | ...                   | 300 yards south of the Wairau River-mouth                | ...        | ...             |                                                                                                                                                                                                                                                                                                                        | John Symons.            |
| " 11              | Waitara, 18 yrs., AA 1               | 833      | 26        | 16          | Wool and general      | Stranded; slight damage  | ...                   | On the Triangle Rocks, at entrance to Bluff Harbour      | W.N.W.     | ...             | Casualty caused through pilot starting with a strong ebb tide, and the wind falling light and baffling. Pilot does not appear to have committed error of judgment, but to have weakly yielded to the fear of public criticism if he had declined to take the ship out in consequence of the improper state of the tide | Thomas Edward Cowell.   |
| " 25              | Penguin, s.s., 16 years              | 442      | ...       | ...         | General               | Stranded; slight damage  | ...                   | Near entrance to Boat Cove, Queen Charlotte Sound        | ...        | ...             | Stranding caused through error in judgment on part of chief officer, Thomas Popham, in altering the course of the vessel. He believed the entrance to Tory Channel was ahead, whereas it was Boat Cove. Captain Malcolm censured for leaving the bridge before the vessel was clear of narrow waters.                  | James Malcolm.          |

## APPENDIX.

## REPORT BY CHIEF INSPECTOR OF MACHINERY

Inspection of Machinery Office,

Wellington, 1st August, 1881.

Sir,—

I have the honor to submit my seventh report as Chief Inspector of Machinery, being that for the year ended the 31st March, 1881.

I have much pleasure in being able to state that, although the number of boilers has considerably increased, no explosion has occurred during the year.

There has been an increase of 100 boilers inspected, the number now being 1,250; of these, 82 were found defective in various parts, viz.: Furnaces out of shape, fractured and laminated plates, internal and external corrosion, grooving and pitting, also feed apparatus, water-gauges, safety-valves, and blow-off cocks out of order; all these defects have been repaired to the satisfaction of the inspectors.

In addition to the boilers, there have also been inspected 1,048 establishments of various kinds, in which either steam, water, wind, or gas is used as a motive-power, making the total number of inspections during the year 2,298.

The number of accidents reported was ten, two of which proved fatal; the machinery in each case was securely fenced. These accidents were all of the class which is not preventable by inspection.

The test steam-gauges imported, and the testers made in the colony, are of great service in ascertaining the condition and errors of steam-gauges in general. In many cases gauges have been condemned, and when possible tables have been supplied showing the correction to be supplied to each reading. All this is done free of charge.

I attach tables showing the number of boilers inspected, also tables showing the amount of revenue and expenditure, during the past year.

I have, &amp;c.,

The Secretary, Marine Department,  
Wellington.

J NANCARROW,  
Chief Inspector.

## STATEMENT showing the NUMBER of LAND BOILERS INSPECTED during the Financial Year ended 31st March, 1881.

| Name of District. | Number of Portable Boilers. |               |               | Number of Stationary Boilers. |               |               | Total. |
|-------------------|-----------------------------|---------------|---------------|-------------------------------|---------------|---------------|--------|
|                   | Under 5 h. p.               | 5 to 10 h. p. | Over 10 h. p. | Under 5 h. p.                 | 5 to 10 h. p. | Over 10 h. p. |        |
| Otago             | 14                          | 95            | 21            | 82                            | 47            | 77            | 336    |
| Canterbury ..     | 8                           | 103           | 10            | 70                            | 15            | 32            | 238    |
| Auckland          | 12                          | 33            | 24            | 67                            | 42            | 99            | 277    |
| Wellington        | 6                           | 37            | 13            | 27                            | 33            | 49            | 165    |
| Marlborough ..    | 2                           | 15            | 2             | 3                             | 9             | 23            | 54     |
| Taranaki ..       | 1                           | 9             | 5             | 4                             | 3             | 2             | 24     |
| Nelson North      | 1                           | 19            | 6             | 12                            | 11            | 2             | 51     |
| Nelson South      | ..                          | 2             | 5             | 7                             | ..            | 5             | 19     |
| Westland ...      | ..                          | 3             | 2             | 12                            | 7             | 9             | 33     |
| Hawke's Bay ...   | ...                         | 26            | 5             | 9                             | 10            | 3             | 53     |
| Totals            | 44                          | 342           | 93            | 293                           | 177           | 301           | 1,250  |

## RETURN showing the AMOUNT of FEES COLLECTED under the Inspection of Machinery Acts during the Year ended 31st March, 1881.

| Name of District. | Amount collected. |
|-------------------|-------------------|
| Otago             | £ 665             |
| Canterbury ..     | 473               |
| Auckland          | 526               |
| Wellington ..     | 325               |
| Marlborough ...   | 108               |
| Taranaki ..       | 49                |
| Nelson North      | 99                |
| Nelson South      | 62                |
| Westland ...      | 55                |
| Hawke's Bay ...   | 105               |
|                   | <b>£2,467</b>     |

## STATEMENT showing the COST of the INSPECTION of LAND MACHINERY during the Financial Year ended 31st March, 1881.

| Nature of Expenditure. | Amount. |    |    |
|------------------------|---------|----|----|
|                        | £       | s. | d. |
| Salaries .. .. .       | 1,246   | 16 | 8  |
| Travelling expenses .. | 511     | 12 | 3  |
| Sundries .. .. .       | 71      | 16 | 8  |
|                        | <hr/>   |    |    |
|                        | £1,830  | 5  | 7  |

## ANNUAL REPORT ON LIGHTHOUSE WORKS BY THE MARINE ENGINEER.

The MARINE ENGINEER to the SECRETARY, Marine Department.

SIR,—

Marine Office, Wellington, 31st March, 1881.

I have the honor to forward, for the information of the Minister having charge of the Marine Department, the annual report on works executed for new lighthouses, &c., during the year, viz.:—

*Cape Egmont.*—Instructions were received on the 27th August as to the removal of the disused Mana Island light, and its re-erection at Cape Egmont. An excellent site at the latter place had already been selected, consisting of a raised knoll, about 50 feet high, and about 12 chains back from the coast-line. Steps were at once taken to pull down the tower, remove it to the beach, and there ship it to New Plymouth, from whence it was carted to the proposed site. It is of cast iron, about 16 feet diameter at the base, and about 50 feet high. Materials for the dwelling-houses (two) and stores (two) were also sent at the same time. The overseer, with a party of men, arrived at Cape Egmont on the 11th November, 1880, and immediately began the work of getting in the foundations to receive the tower, the erection of which, as well as that of the houses and stores, is so well advanced, that it is expected the whole will be completed by the end of June, and that the light will be ready for exhibition by the 1st August. A reserve has been made for the lighthouse of about 50 acres, around which the Armed Constabulary are constructing a ditch and bank fence, and a road is being made from the main road, near Pungarehu, to the lighthouse. It will be about three miles long.

*Removal of Rocks, Catlin's River.*—A tender was accepted for this work on the 14th December, 1880, and the time for completion is the 14th May, 1881. The contractor, so far, has made very fair progress, and it is expected that the work will be completed within contract time.

*Removal of Buoy Rock, Nelson Harbour.*—This work was the subject of a previous contract, but contractors failed to carry it out. It was advertised for public tender again, and a second tender was accepted on the 30th December, 1880, the work to be completed by the 30th June, 1881. The contractor, up to date, has not made much progress, but has ordered the diving and other apparatus necessary for the proper carrying out of the work, which he hopes to finish in contract time.

I have, &amp;c.,

JOHN BLACKETT,

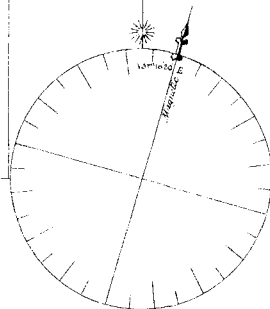
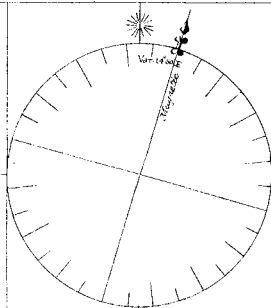
Marine Engineer.

The Secretary, Marine Department.

# NEW ZEALAND WRECK CHART

1<sup>st</sup> April 1880 to 31<sup>st</sup> March 1881.

COMPILED FROM  
Official Records  
in the  
MARINE DEPARTMENT



## SYMBOLS

### CASUALTIES BY STRANDING

- X — Signifies a Total Loss.
- X — " " Partial Loss

### CASUALTIES BY COLLISION

- OO — Collision between two Sailing-vessels with partial loss
- 0+ — " " a Steam-vessel & a Sailing-vessel with partial loss
- ++ — " " two Steam-vessels with partial loss.
- 0+ — " " a Steam-vessel & a Sailing-vessel with total loss of Sailing-vessel.

### CASUALTIES OTHER THAN BY COLLISION OR STRANDING

- — a Total loss of a Sailing vessel.
- — a Partial " " " "
- † — " " " " Steam vessel.

