

SESS. II.—1879.
NEW ZEALAND.

MARINE DEPARTMENT

(ANNUAL REPORT OF THE).

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

SIR,— Marine Department, Wellington, 23rd September, 1879.
I do myself the honor to transmit herewith, for your Excellency's information, the report of the Marine Department of this colony for the financial year ended the 30th June last.

His Excellency Sir Hercules Robinson, G.C.M.G., &c., Governor of New Zealand. G. GREY, Minister having charge of the Marine Department.

REPORT.

SIR,— Marine Department, Wellington, 1st July, 1879.
I have the honor to submit the following report on the working of the Marine Department for the year ended 30th June last:—

Lighthouses.—During the past year the following lights have been exhibited for the first time:—Timaru on 1st July, Centre Island on 16th September, Puysegur Point on 1st March, and Cape Maria van Diemen on 24th March. Timaru Light is a fixed white light of the fifth order dioptric; being a local light, it is maintained by the Harbour Board. Centre Island is a fixed white light of the first order dioptric, with red arcs over the inshore dangers. Puysegur Point Light is a flashing white light of the first order dioptric, showing a flash every ten seconds. Cape Maria van Diemen is a revolving white light of the first order dioptric, obtaining its greatest brilliancy once a minute; and there is a fixed red light in the lower part of the tower, showing over an angle of 30 degrees in the direction of Columbia Reef.

It is anticipated that the lights at Akaroa Head and Cape Saunders will be lighted early in 1880. The Hokitika Light will be ready for lighting in September; this light, being a local light, will be maintained by the Harbour Board.

A report by the Marine Engineer on works in connection with lighthouses which have been executed under his direction during the past year is appended.

Mokohinau Light has not yet been commenced, the Auckland Harbour Board having requested that it should not be erected on that island, but on Moro Tiri, one of the Hen and Chickens Islands. Mr. Blackett has been instructed to report on the proposed new site when a suitable opportunity arrives.

Mana Light has not yet been removed to Cape Egmont, the necessary land at that place not having been procured.

Stephen's Island and Kapiti have been visited to see whether there were available lighthouse sites; but, owing to the difficult nature of the ground, Stephen's Island could not be thoroughly examined. A track has since been cut, and the Marine Engineer will revisit the island on the first convenient opportunity. Stephen's Island is a capital position for a lighthouse, and it is to be hoped that a suitable site will be found.

The new fountains have been fitted at Nugget Point, and paraffin burners for Pencarrow Head and Tiri Tiri will be ordered shortly.

The port lights referred to in last report have been received, and found to be suitable for the purpose for which they are intended; a further supply of them has been ordered from England.

The plans for a store for the Marine Department, to be erected on the reclaimed land, Wellington, have been prepared, and tenders are shortly to be called for its erection. When this store is built it will prove a great convenience to the Department, and will enable a proper supply of spare stores, &c., for lighthouses to be kept.

Light Dues.—The light dues collected at the various ports of the colony during the year amounted to £13,664 9s. 11d., being £2,146 10s. 9d. more than the previous year.

Government Steamers.—The "Hinemoa" has been almost exclusively employed in work outside this department. A steam starting-gear has been fitted to her engines, which has been found to work very well. The "Stella" has been employed in landing stores at existing, and materials for the construction of new, lighthouses, overhauling buoys, &c. She has, however, undertaken a considerable amount of work for other departments, such as attending on the Jackson's Bay Commissioners (over six weeks), &c.

Examination of Masters, &c.—Certificates of competency have been issued to 87 candidates, 68 being for masters, mates, and engineers of sea-going vessels, and 19 for masters and mates of river steamers. New regulations for the examination of masters, mates, and engineers have been prepared and issued under the authority of "The Shipping and Seamen's Act, 1877."

Shipping Law.—The consolidation of the law relating to shipping, harbours, and Harbour Boards, by the assent of Her Majesty being given to "The Shipping and Seamen's Act, 1877," and by the passing of "The Harbours Act, 1878," has been found most beneficial. A considerable number of

by-laws under these Acts have been prepared, but, owing to pressure of work in connection with the forthcoming session of Parliament, they have not yet been issued.

Steam Navigation.—Passenger certificates have been issued to 128 steamers, of 12,672 tons and 4,866 horse-power, being in the aggregate 19 steamers, of 2,508 tons and 929 horse-power, more than were surveyed last year. Regulations for the guidance of inspectors and surveyors and engineer-surveyors have been prepared, but, owing to press of work, as stated above, have not yet been issued. It is a matter for congratulation that there have been no serious accidents to the boilers or machinery of any vessel holding a passenger certificate.

Harbours.—Various repairs, &c., have been carried out in connection with the harbours. The buoys at Manukau have been all lifted and cleaned. In connection with the visit of Sir John Coode, plans, &c., necessary for him to frame his reports have been sent in respect of the following places:—New Plymouth, 26th July, 1878; Milford Lagoon, 18th November, 1878; Patea, 18th November, 1878; New River, 17th December, 1878; Thames, 17th December, 1878; Hokitika, 14th January, 1879; Bluff, 11th March, 1879; Tauranga, 8th April, 1879; Napier, 3rd May, 1879; Greymouth, 30th June, 1879. The necessary data for Wairoa, and Gisborne, Poverty Bay, are being procured by the Department. Sir John's report on New Plymouth Harbour has been received, and forwarded to the Harbour Board at that place.

Naval Training School.—The report of the manager is forwarded herewith. The remarks made by me last year relative to the criminal element in the school still hold good. I should be glad to see Kohimarama weeded of all boys tainted with crime. A good many desertions took place during the year; but recently, since the boys have been more freely apprenticed to shore trades, the number has greatly decreased. A contract has been let for building a small schooner for an exercising vessel, and it is expected that she will be ready for use in three or four months' time.

Weather Reporting.—I forward herewith a report by Captain Edwin, of the Weather Reporting Office. The system of warnings is still found very useful to seamen, and Captain Edwin's report gives a great deal of valuable information.

Wrecks and Casualties.—During the year, 82 casualties were reported to this office, 78 of which occurred on or near the coasts of the colony. Of these, 32, affecting vessels of an aggregate of 5,634 tons, were cases of total wreck; while 46, affecting vessels of 6,504 tons in all, were of partial loss only. The number of lives lost on or near the coasts of the colony was 25—viz., 7 from the "Kaiuma" (lost with all hands), 4 from the "Felixstowe," 2 each from the "Geelong" and "Merlin," and 1 each from the "Jane," "Star of the Sea," "Margaret," "Saucy Kate," "Forest Queen," "Mary Bannatyne," "Patea," "Glenelg," "Herald," and "Wakatipu." Eight casualties were reported as having occurred beyond the colony, consisting of 2 total wrecks, with an aggregate tonnage of 94, 2 partial losses (tonnage 1,250), and 4 cases of loss of life only—viz., 1 each from the "Lebu," "Bella Mary," "Wave Queen," and "Dochra."

Returns.—The usual returns, showing expenditure, wrecks, casualties, &c., are appended hereto, as is also the usual wreck chart.

I have, &c.,

R. JOHNSON,

Secretary.

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

Enclosure 1.

Captain EDWIN to the Hon. the MINISTER for MARINE DEPARTMENT.

SIR,—

Wellington, 18th August, 1879.

I have the honor to submit the fifth yearly report of the Experimental System of Storm Warnings for your perusal, and respectfully desire to draw your attention to the Return No. 1, which gives the percentage value of the warnings issued to each station during the year; and as this is the first occasion upon which it has been possible to show results for a consecutive period of twelve months, this return may be considered as giving more definite information than those previously published. Complete returns for the whole year have not been received from three stations, which are therefore not included in this table; but their values of correct forecast per cent. for the broken periods are as follows:—Direction of wind—at Taupo, 97.43; Tauranga, 86.66; Bluff, 75.51. Force of wind—Taupo, 30.71; Tauranga, 66.67; Bluff, 36.36. Barometer movement—Taupo, 68.75; Tauranga, 83.33; Bluff, 76.31; and 50.00 of sea movement at Tauranga. The yearly mean for the whole colony is given at the foot of the table. The percentage for force of wind is, as usual, lower than any of the other values; but the results of forecast of barometer movement and wind direction are the best tests of the reliability of weather forecast, as few places are exposed to all winds, and it therefore follows that should gales prevail from those directions from which many of the stations are protected by the formation of the adjacent country, the force as given in the returns will naturally be lower than would otherwise be the case; but the movement of the barometer would not be affected by these conditions: thus showing that, although no bad weather may have been experienced at the station which received the warning, yet there is a great probability that other places in the vicinity have experienced it. Two instances of this are shown in the return—viz., Naseby and Nelson; both of these are very sheltered positions, and, although the value of force is low, the result of barometer forecast is quite in accordance with the results of other places less protected from wind. The force value at Naseby is exceptionally small. The sea forecast shows a good result, and the information afforded by it has proved useful at the bar stations and roadsteads; and I have been informed by Captain McLellan, the Harbour-master at Lyttelton, that warnings of approaching sea sent to him in June last were received in time to enable vessels to be prepared; yet all of them dragged, and one went ashore, a disaster which rarely happens in such a sheltered port. Sea-forecast result is also of value as evidence of there having been bad weather near the colony, though not felt as a gale; in such cases there is much sea on the coast, with moderate weather. This table also shows the proportion of gales which were experienced at the various places without any warning having been given. Of these Castlepoint shows the greatest number that have ever been registered at any place since the returns were first published; the mean is 1.25 per cent., but last year it was 0.40 per cent. for nine months.

Return No. 2 gives the results during a corresponding period of six months in three years, the longest period for which I am able to give any such information; and Return No. 3 gives a comparison

of the values for two years excepting the months of August and September, 1877, when I was reluctantly compelled to seek medical advice. These two returns are very instructive, and enable a reliable opinion to be formed as to the usefulness of the work.

Return No. 4 shows the distribution of a storm warning issued in February last, showing an easterly gale in the southern part of the colony; the low area which caused this gale passed to the southward of the Bluff, on a route of about north-east by north, which, in fact, has been the most prevalent one since December, 1878.

Return No. 5 shows the warnings issued in advance of an easterly gale experienced in June last; the approach of this gale was only absolutely determined late on the evening of the 25th, and I was unable to get warnings sent to Hokianga and Russell before the gale had begun. The warnings were repeated to the Middle Island stations the next day, and much heavy weather was experienced on the eastern coast; but these second warnings have not been included in this return. The low area which caused this gale came from about north-west; and, from reports in the newspapers, &c., there seems but little doubt that it also visited Brisbane and Sydney, as it had been blowing hard from the eastward at the latter place two days before the gale commenced in this colony, and at Brisbane the barometer read 29.25 on the 24th June, with a gale from the south-east. These areas do not often visit us, but they can be distinctly traced.

The remaining returns illustrate the manner in which the information is supplied to the central office. Similar matter has been published with previous reports. These returns have been selected for geographical position, thus enabling a better idea to be formed of the work and its results.

The results of the warnings are in all cases decided by the officers who receive them. This plan has been in use during the last five years, and has always been found to work well; and there can be no doubt that the verdict of those at the place must be more reliable than any data compiled in a central office. I have made no returns of the results for Wellington, as I should have to make them out myself, and they might therefore be considered too favourable. The results for New Plymouth may be considered the same as those for Opunake.

The work of this office has on more than one occasion been favourably noticed by the press since the last report, and for the last nineteen months daily forecasts have been published in the Wellington evening papers. From the experience already gained I have no hesitation in saying that a daily forecast could now be sent to such other evening papers as care to publish it. The Press Agency would no doubt undertake to forward it; but to insure the forecast being in time for daily publication at all other places, it will be absolutely necessary to have the report complete by 10 a.m. at the latest. To enable the morning papers throughout the colony to publish a weather forecast, a second complete daily weather report will be required at a later hour, as, under the present circumstances, so far as the morning papers are concerned, the interval between the completion of the forecast and its publication is so great that the information is of very little use. Much of the usefulness of a service of this kind depends upon the wire; and I have to acknowledge the cordial co-operation of Dr. Lemon and the officers of the Telegraph Department.

R. A. EDWIN,

The Hon. the Minister for Marine Department.

Commander R.N.

No. 1.—RETURN showing Percentage of Correct Forecast at the undermentioned Places during the Twelve Months ending 30th June, 1879.

Place.	Direction of Wind.	Force of Wind.	Barometer Movement.	Sea Movement.	Gales without Warning.	Remarks.	
	%	%	%	%	%		
Hokianga	88.23	27.38	71.26	...	6.59	The warnings are limited to an area of 12 points of the compass. Force — 7 of Beaufort scale is the lowest for which warnings are considered as being verified.	
Russell	80.89	16.85	67.81	43.51	...		
Whangarei	79.68	46.77	87.50	...	0.15		
Coromandel	82.09	43.28	73.01	...	...
Tokatea (altitude, 1,200 feet) ...	94.82	77.58	81.13	...	...
Manukau (altitude, 900 feet) ...	96.05	34.21	76.00	84.61	...		
Auckland	72.42	36.14	55.12	...	3.33		
Grahamstown	98.43	51.56	71.87	...	4.47		
Cambridge (altitude, 200 feet) ...	87.93	64.63	78.43	...	...
Tauranga		See Report.
Opotiki	87.62	43.87	76.34	68.42	1.02		
Taupo (altitude, 1,200 feet)		See Report.
Gisborne	87.78	47.19	69.44	75.76	1.09		
Opunake (altitude, 100 feet) ...	91.81	40.00	66.36	85.43	0.90		
Napier	93.18	44.31	73.49	61.54	2.22		
Wanganui	96.07	48.03	73.00	...	3.77		
Castlepoint	94.73	47.74	87.96	73.68	9.52		
Nelson	95.35	11.62	83.33	...	1.14		
Tophouse (altitude, 2,300 feet) ...	87.72	88.11	76.76	...	...
Blenheim	92.85	25.51	79.16	...	1.00		
Westport	66.31	30.85	70.65	63.09	1.04		
Kaikoura	68.21	34.88	71.90	76.00	...		
Kekerangu	93.51	86.11	91.17	83.33	0.90		
Hokitika	92.59	26.85	83.49	85.24	...		
Bealey (altitude, 2,180 feet) ...	91.02	71.79	78.28	...	...
Lyttelton	92.66	29.35	71.96	35.74	1.80		
Timaru	73.81	10.97	69.51	55.56	...		
Oamaru	79.67	34.96	74.50	47.61	...		
Naseby (altitude, 2,000 feet) ...	82.60	5.79	78.40	...	...
Port Chalmers	82.40	57.79	80.18	...	...
Queenstown (altitude, 1,100 feet) ...	93.58	47.36	85.39	...	...
Roxburgh (altitude, 300 feet) ...	91.00	39.00	94.89	...	...
Balclutha	93.33	32.22	79.54	...	...
Bluff	See Report.	
Mean average for twelve months ...	87.36	43.63	76.67	71.96	1.25		

No. 2.—COMPARATIVE RETURN showing Monthly Percentage of Correct Forecast for the whole Colony during a Period of Six Months (January to June) in 1877-78-79.

Forecast of	January.		February.		March.		April.		May.		June.		Mean of Six Months.	
	1877.	1878.	1877.	1878.	1877.	1878.	1877.	1878.	1877.	1878.	1877.	1878.	1877.	1878.
Direction of Wind	79.25	88.88	80.18	83.05	81.00	87.05	84.39	89.70	81.53	86.88	87.97	88.00	87.73	88.33
	%	%	%	%	%	%	%	%	%	%	%	%	%	%
Force of Wind ...	50.55	57.64	38.60	44.83	23.21	57.70	31.21	37.27	33.93	25.82	48.53	34.90	42.00	51.41
Movement of Barometer	73.81	77.67	85.00	76.19	69.94	78.03	77.77	61.78	73.86	80.21	79.94	79.80	77.78	77.37
Movement of Sea...	71.43	61.22	80.00	91.66	57.14	64.32	76.54	77.78	70.90	66.33	74.50	76.00	66.26	69.48

REMARKS.—The warnings are limited to an area of twelve points of the compass. Force—7 of Beaufort scale is the lowest for which warnings are considered as being verified.

No. 3.—COMPARATIVE RETURN showing Monthly Percentage of Correct Forecast during Two Years, 1877-78.

Forecast of	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.	
	1877.	1878.	1877.	1878.	1877.	1878.	1877.	1878.	1877.	1878.	1877.	1878.	1877.	1878.	1877.	1878.	1877.	1878.	1877.	1878.	1877.	1878.	1877.	1878.
Direction of Wind	79.25	88.88	80.18	83.05	81.00	87.65	79.43	89.70	88.10	92.70	87.97	88.00	83.94	88.58	88.95	84.73	85.44	92.50	92.50	92.00	86.85	82.54		
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
Force of Wind	50.55	57.64	38.60	44.83	23.21	57.70	37.27	54.23	49.59	57.55	48.53	34.90	45.25	46.54	49.27	40.80	60.14	55.46	47.52	57.78	35.39	41.27		
Barometer Movement	73.81	77.67	76.19	69.94	77.77	80.24	61.78	77.17	80.21	79.40	79.94	79.80	83.59	76.73	74.27	76.24	77.54	81.39	80.72	75.00	85.54	78.28		
Sea Movement	71.43	61.22	91.66	57.14	76.54	71.43	77.78	76.08	88.46	75.00	74.50	76.00	91.89	80.00	75.00	68.42	68.00	67.74	56.52	81.08	67.57	66.67		

* See Report.

REMARKS.—The warnings are limited to an area of twelve points of the compass. Force—7 of Beaufort scale is the lowest for which warnings are considered as being verified.

No. 4.—RETURN showing Result of a Storm-Warning, 1879.

Warning Sent.	Date.	Place sent to.	Result.				Remarks.
			Direction of Wind.	Force of Wind.	Barometer Movement.	Sea.	
Bad weather probable any direction between North-east and North and West; glass further fall	Feb. 19	Lyttelton ...	N.E.	Mod. gale	Good	...	Passing showers
	"	Kekerangu ...	N., N.W.	Gale	Good	...	
	"	Timaru ...	N.E.	Moderate	Good	...	Rain
	"	Oamaru ...	N.E., N.W.	Fresh	Good	...	
	"	Port Chalmers ...	N.E.	Strong gale	Good	...	Rain
	"	Queenstown (alt. 1,100 ft.)	N.W.	Fresh	Good	...	Glass fell six-tenths
	"	Roxburgh (alt. 300 ft.)	N.W.	Fresh	Good	...	Very threatening
	"	Naseby (alt. 2,000 ft.)	Calm	...	Good	...	
	"	Balclutha ...	Calm	...	Good	...	
	"	Tophouse (alt. 2,300 ft.)	N.W.	Fresh gale	Good	...	Heavy rain
Bad weather probable any direction between North-east and North and West; glass further fall soon, and heavy sea; rivers likely rise	"	Castlepoint ...	N.E., N.W.	Mod. gale	Good	...	
	"	Bluff ...	N.W., S.W.	Gale	Good	...	
	"	Greymouth ...	N.E.	Gale	Good	...	
Bad weather probable any direction between North-east and North and West, further fall glass, and much sea within 24 hours	"	Hokitika ...	N.E.	Gale	Good	...	Much rain, thunder and lightning
	"	Westport ...	North	Fresh	Good	Good	River flooded
	"	New Plymouth... Opunake (alt. 100 ft.)	...	...	...	...	No returns
Bad weather probable any direction between North and West and South-west; glass further fall	"	Opunake (alt. 100 ft.)	N., N.N.W.	Mod. gale	Good	Good	Weather very threatening
	"	Blenheim ...	N.W.	Moderate	Good	...	Every indication of bad weather
	"	Nelson ...	N., N.W.	Fresh	Good	Good	Heavy rain
	"	Wanganui ... Bealey (alt. 2,200 ft.)	N.W. W., N.W.	Moderate Gale	Good Good	...	Hard squalls

No. 5.—RETURN showing Result of a Storm-Warning, 1879.

Warning Sent.	Date.	Place sent to.	Result.				Remarks.
			Direction of Wind.	Force of Wind.	Barometer Movement.	Sea.	
The approach of this gale was only absolutely certain when too late to warn these stations	June 26	Hokianga					
	"	Russell					
Bad weather probable any direction between South-east and East and North; glass further fall; bad indications	"	Grahamstown ...	N.E.	Hard gale	Good	...	
	"	Coromandel ...	E.N.E.	Hard gale	Good	...	
	"	Auckland ...	N.E.	Hard gale	Good	...	
	"	Manukau (alt. 900 ft.)	East	Gale	Good	...	
	"	Taupo (alt. 1,250 ft.)	N.E.	Hard gale	Good	...	
Bad weather probable any direction between South-east and East and North; glass further fall, expect heavy sea within twelve hours	"	Tauranga ...	S.E., N.E.	Gale	Good	Good	
	"	Gisborne ...	S.E.	Strong gale	Good	Good	
	"	Opotiki ...	S.E.	Gale	Good	Good	
Bad weather probable; expect hard gale soon from North-east; glass fall fast	"	Whangarei ...	North	Strong	Good	...	Squally and rain
Bad weather probable any direction between South-east and East and North; glass further fall; expect sea making soon and likely heavy within 24 hours	"	Castlepoint ...	S.E.	Gale	Good	Good	
	"	Napier Spit ...	N.E., E.N.E.	Gale	Good	Wrong	
	"	Kaikoura ...	South	Fresh	Good	Good	
	"	New Plymouth... Opunake (alt. 100 ft.)	...	...	...	...	No returns
	"	Opunake (alt. 100 ft.)	West	Light	Good	Good	
Bad weather probable any direction between South-east and East and North; glass further fall, and much rain	"	Blenheim ...	S.E.	Light	Good	...	Much rain
	"	Kekerangu ...	N.E., S.E.	Fresh	Good	...	Heavy rain and flood
	"	Wanganui ...	S.E.	Light	Good	...	Heavy rain for 16 hours
	"	Tophouse (alt. 2,300 ft.)	N.E.	Strong gale	Good	...	Showers
	"	Bealey (alt. 2,200 ft.)	N.E.	Moderate	Good	...	
	"	Nelson ...	S.E.	Light	Good	...	
Bad weather probable any direction between South-east and East and North; expect high tides and much rain	"	Westport ...	S.E., N.	Strong	Good	...	Tides high
	"	Hokitika ...	S.E., N.E.	Fresh	Good	...	
	"	Lyttelton ...	W., N., N.E.	Light	Good	...	
Bad weather probable any direction between South-east and East and North; glass further fall	"	Timaru ...	Calm	...	Good	...	
	"	Oamaru ...	W., N., N.E.	Light	Good	...	
	"	Port Chalmers ...	N.E.	Gale	Good	...	
	"	Bluff ...	East	Fresh gale	Good	...	
	"	Queenstown (alt. 1,100 ft.)	N.E.	Fresh	Good	...	
	"	Roxburgh (alt. 300 ft.)	Calm	...	Good	...	
	"	Naseby (alt. 2,000 ft.)	Calm	...	Good	...	
	"	Balclutha ...	N.E.	Fresh	Good	...	

RETURN No. 1, showing Results of Storm-Warnings received at Grahamstown during the Month of November, 1878.

Date and Hour Received.	Indicated Weather.	Result.		Remarks.
		Direction of Wind.	Force of Wind.	
9th, 2 p.m.	Bad weather probable, any direction between N. and W. and S.W.; glass further fall; expect hard gale	Good	Hard gale	8 a.m., 10th, W. to W.S.W., force 7 to 9; cloudy, squally, and threatening; strongest force 10 a.m. till 3 p.m., W. to N.W., 7 to 10; barometer good.
15th, 2.23 p.m.	Bad weather probable, any direction between N. and W. and S.W.; glass fall very soon; expect hard gale within twenty-four hours	Good	Hard gale	Barometer good; 8 a.m., 16th, S.W. to S.S.W., 7 to 10; cloudy, squally, and threatening; strongest force at 10 a.m., 16th, wind W. to N.W.
18th, 5.14 p.m.	Bad weather probable, any direction between N. and W. and S.W.; glass further fall; indications bad	Good	Fresh gale	Barometer good; 9 p.m., wind N.W. to W., force 6 to 9; cloudy, squally, passing showers, and threatening; strongest force at 10.30 a.m., 19th, N.W., 10.
23rd, 2.41 p.m.	Bad weather probable; indications show wind will change towards S., and glass rise soon, but it will fall within twenty-four hours, and wind back to S.W., changing to S. and E.; likely blow hard	Good	Gale	Wind W. to N.W., 8 a.m., 23rd, cloudy, squally, and threatening; 9 p.m., S.W. to S., force 7 to 9; strongest force 7 to 9, S.W. to S., between 9 p.m. and 10 p.m., 23rd; barometer good.
28th, 5.5 p.m.	Bad weather probable, any direction between N.E. and N. and W.; glass fall	Warning	late	9 p.m., 27th, N.W. to W., cloudy, squally, threatening; 8 a.m., 28th, N.W. to W., 6 to 9; 1 p.m., calm and cloudy; barometer wrong.
29th, 4.37 p.m.	Bad weather probable, any direction between N. and E. and S.E.; wind backing, and glass fall soon	Good	Light	N.E. to N.W.; overcast, gloomy, and threatening; strongest force, 4; barometer good.

GEORGE C. BEST, Harbourmaster.

RETURN No. 1, showing Results of Storm-Warnings received at Cambridge (altitude, 200 feet) during the Month of November, 1878.

20th, 3.54 p.m.	Bad weather probable between N. and W. and S.W.; further fall of glass	Good	Gale	Barometer good.
23rd, 2.50 p.m.	Bad weather probable; wind change S.; glass rise soon, but fall within twenty-four hours, and wind back to S.W., changing then towards S. and E., and likely blow hard	Good	Storm	Barometer good; very heavy thunder-and-lightning storm through night of 23rd; wind blowing from all points of compass, and very heavy rain.
28th, 5 p.m.	Bad weather probable between N.E. and N. and W.; glass likely fall	Good	Strong	Barometer steady.
29th, 4.26 p.m.	Bad weather probable between N. and E. and S.E.; wind backing, and glass fall soon	Good	Strong	Barometer good; much rain, with strong winds from N.E.

E. B. REYNOLDS, Telegraphist.

RETURN No. 2, showing Results of Storm-Warnings received at Opotiki during the Month of November, 1878.

15th, 2.53 p.m.	Bad weather probable, any direction between N.E. and N. and W.; glass fall soon; expect heavy gale and sea within twelve hours	Good	Gale	Barometer good; sea good; blew a gale during the night, ending at N.W., and heavy sea; glass fell two-tenths.
18th, 5.7 p.m.	Bad weather probable, between N. and W. and S.W.; glass fall soon; expect heavy sea within twenty-four hours	Good	Fresh	Barometer good; sea good; glass fell to 29.80 on 19th, with fresh breeze from N., light rain, heavy sea.
20th, 3.51 p.m.	Bad weather probable, between N. and W. and S.W.; heavy sea soon; glass should be falling fast now	Good	Strong	Barometer good; sea good; glass fell to 29.65 during 21st, with strong N.W. winds and heavy sea.
23rd, 3.10 p.m.	Bad weather probable, between S.W. and S. and E.; glass rise soon, and fall within twenty-four hours	Good	Fresh	Glass this morning rising fast; wind fresh from S.W. on 24th; glass still rising.
29th, 4.35 p.m.	Bad weather probable, between N. and E. and S.W.; glass fall again; sea continue heavy, and much rain.	Good	Stormy	Barometer wrong; glass continued to stand at 30.38 on 30th; wind S.E., fresh, with hard squalls; heavy sea, and rain.

S. ELLIOTT, Telegraphist.

RETURN No. 3, showing Results of Storm-Warnings received at Hokitika during the Month of November, 1878.

Date and Hour Received.	Indicated Weather.	Result.		Remarks.
		Direction of Wind.	Force of Wind.	
18th, 11.50 a.m.	Bad weather probable, between N. and W. and S.W.; glass fall fast; expect heavy sea	Good	Mod. to fresh	Barometer good; sea good; weather very unsettled from N., 3 to 5, to S.W., 4 to 6, on 20th, with much sea from S.W.; the clouds and scud movement S.E. and E., the latter fast.
21st, 1.20 p.m., urgent	Bad weather probable, same indications; glass fall again soon; expect heavy sea, and wind backing soon	Good	Strong gale	Barometer good; sea good; strong S.W. gale and hard squalls p.m. 21st, with a very remarkable fall of snow on morning 22nd, and backing wind on 23rd, with very unsteady glass, from 29.50 to 29.72, and falling again.
27th, 2 p.m.	Bad weather probable, between N. and W. and S.W.; glass further fall; expect heavy sea from S. outside, and increase on bar	Good	Moderate	Barometer wrong; overcast, gloomy weather from N. prevailed on 27th and 28th, with strong sea at times from S.W.; atmosphere sultry and oppressive, although the temperature only showed 64°.

THOMAS TURNBULL, Harbourmaster.

RETURN No. 1, showing Results of Storm-Warnings received at Queenstown (altitude, 1,100 feet) during the Month of November, 1878.

19th, 2.18 p.m.	Bad weather probable between N.W. and W. and S.; glass rise soon	Good	Gale	Glass fell and rose again on night of 21st; N.W. gale on 20th; foggy weather.
20th, 5 p.m.	Bad weather probable between W. and S. and S.W.; glass rise	Good	Strong	Strong, S., on 21st, and barometer rose.
21st, 2 p.m.	Bad weather probable between N.W. and W. and S.; glass rise; expect heavy gale	Good	Gale	Glass rose six-tenths; strong winds, W., on 21st, and stormy from S.W. on 22nd.
23rd, 2 p.m.	Bad weather probable between W. and S. and S.E.; glass rise	Good	Moderate	Barometer good; rose nearly three-tenths.
27th, 5 p.m.	Bad weather probable; expect southerly gale when glass rises	Good	Fresh	Very squally and stiff breeze on 28th; barometer good.
28th, 2.30 p.m.	Bad weather probable between N. and W. and S.W.; glass further fall	Good	Strong	Barometer good; wind about 7 from 3 p.m. to 5 p.m. on the 29th.

J. S. WORTHINGTON.

RETURN No. 2, showing Results of Storm-Warnings received at Manukau Heads (altitude, 900 feet) during the Month of March, 1879.

24th, 6 p.m.	Bad weather probable between S.W. and S. and E.; glass further fall	Good	Fresh	Barometer fell one-tenth; wind W.S.W., 4 to 5; dull, cloudy weather.
27th, 5.40 p.m.	Indications for strong winds any direction between N.E. and N. and W.; glass falling again within twenty-four hours	Good	Fresh	Barometer fell two-tenths; wind N.E. to N.W., 5 to 6; unsettled weather.
29th, 5 p.m.	Bad weather probable any direction between S.W. and S. and E.; glass fall again within twenty-four hours	Wrong	Moderate	Barometer rose one-tenth; wind S.W. to W.N.W., force 4; weather threatening appearances.
31st, 5.20 p.m.	Bad weather probable any direction between S.E. and S. and W.; glass further fall	Good	Fresh	Barometer fell two-tenths; wind N.W. to S.W., force 5 to 6; squally, unsettled weather.

R. J. PALTRIDGE, Signalman.

RETURN No. 1, showing Results of Storm-Warnings received at Gisborne during the Month of March, 1879.

20th, 4.12 p.m.	Bad weather probable, between N.W. and W. and S.; further fall of glass and increase sea	Good	Heavy gale	20th, weather during morning hot and sultry, winds variable; 9 p.m., heavy southerly "burster," with heavy squalls and heavy rain, and much sea coming up rapidly; glass beginning to rise immediately: 21st, strong gale from S., moderating about noon.
21st, 4 p.m.	Bad weather probable, between S. and E. and N.E.; glass likely fall within twenty-four hours, and sea increase	Good	Gale	Wind working round to N.E. and N.W., and glass falling on 23rd, blowing hard from N.W.; towards night heavy squalls and cloudy.
24th, 2 p.m.	Bad weather probable, between N.W. and W. and S.; glass fall further and sea increase within twenty-four hours	Good	Gale	25th, at 1 a.m., strong souther again, glass rising immediately on approach; sea rising; heavy rain; moderating about noon same day: 26th, barometer still rising, heavy sea outside.
27th, 3.15 p.m.	Indications for strong winds, any direction between N.E. and N. and W.; glass fall again within twenty-four hours	Good	Strong	28th, strong S.E. breeze, cloudy and gloomy weather, and glass rising, sea increasing; 29th, sea very rough, not so much wind; must have been gale to S.E.

THOS. CHRISP, Harbourmaster.

RETURN No. 1, showing Results of Storm-Warnings received at Kaikoura during the Month of March, 1879.

Date and Hour Received.	Indicated Weather.	Result.		Remarks.
		Direction of Wind.	Force of Wind.	
1st, 3.54 p.m.	Bad weather probable, between N.E. and N. and W.; glass further fall soon; expect heavy sea within twenty-four hours	Good	Gale	On 2nd, wind N.E. from 8 till 11 a.m., and from 8 p.m. to midnight, strongest force 7; barometer fell three-tenths; heavy N.E. sea.
3rd, 4.56 p.m.	Bad weather probable, between N. and W. and S.W.; glass fall again soon	Good	Strong	Barometer good; 4th, wind S.W. from 7-30 a.m. till noon, strongest force 6; barometer fell considerably on 5th, though it had risen over two-tenths previously.
14th, 3.55 p.m.	Bad weather probable, between S.W. and S. and E.; glass fall; expect sea decrease, but make again after twenty-four hours	Good	Gale	Barometer good; sea good; 15th, wind E. from 11 a.m. till 10 p.m.; barometer fell over four-tenths on 15th and 16th; on afternoon 15th heavy easterly sea.
18th, 5.15 p.m.	Bad weather probable, between S.E. and E. and N.; glass fall again within twenty-four hours	Wrong	Moderate	Barometer good; no particularly strong winds experienced; barometer fell considerably during 19th.

J. GOODALL, Telegraphist.

RETURN No. 2, showing Results of Storm-Warnings received at Oamaru during the Month of March, 1879.

14th, 12.6 p.m.	Bad weather probable between S.W. and S. and E.; glass rise fast and heavy sea	Good	Moderate to fresh	Barometer good; sea good; moderate and fresh winds between N.N.E., E., and S.E., with rising glass and considerable sea.
17th, 2.42 p.m.	Bad weather probable between S.W. and S. and E.; glass further fall; indications increase sea	Good	Moderate to fresh	Barometer good; sea good; moderate and fresh winds from N.W., then sudden shift to S. and S.E. strong, then going round by E. to N. and N.W. light, with falling glass and increasing sea.
18th, 5.7 p.m.	Bad weather probable between E. and N. and N.W.; glass falling again soon	Good	Moderate	Light and moderate winds from E. to N. and N.W., with falling glass.
19th, 3.32 p.m.	Bad weather probable between S.W. and S. and E.; glass rise soon; expect considerable sea	Good	Fresh gale	Barometer good; sea good; strong winds from N.W. to W., then fresh S. and S.W. gales, with considerable southerly sea outside, and rising glass.
22nd, 3.4 p.m.	Indications sea rising	...	...	Good; increasing easterly swell.

WM. SEWELL, Harbourmaster,

RETURN No. 1, showing Results of Storm-Warnings received at Port Chalmers during the Month of March, 1879.

1st, 6 p.m.	Bad weather probable between N.E. and N. and W.; glass further fall	Good	Moderate	Barometer good; experienced moderate N.E. wind and falling barometer on the 2nd.
3rd, 7.20 p.m.	Bad weather probable between N. and W. and S.W.; glass fall again soon	Good	Moderate to fresh	Barometer wrong; experienced moderate and fresh S.W. wind, with rising glass, on the 4th; appearance of sky to S.W. indicated barometer forecast and bad weather.
14th, 5.30 p.m.	Bad weather probable between S.W. and S. and E.; glass continue rising	Wrong	Strong	Barometer good; experienced strong N.E. wind and rising barometer on 15th.
17th, 6.10 p.m.	Bad weather probable between W. and S. and S.E.; glass further fall	Good	Gale	Barometer good; experienced S.W. gale, with drizzling rain and falling glass, during night of 17th.
18th, 6.25 p.m.	Bad weather probable between E. and N. and N.W.; glass fall again soon	Good	Gale	Barometer good; experienced N.N.E. gale, with drizzling rain and fog, and falling barometer, on night of 18th.

WM. THOMSON, Harbourmaster.

RETURN No. 1, showing Results of Storm-Warnings received at Russell during the Month of June, 1879.

Date and Hour Received.	Indicated Weather.	Result.		Remarks.
		Direction of Wind.	Force of Wind.	
26th, 12.21 p.m.	Bad weather probable any direction between S.E. and E. and N.; heavy sea on beach soon	Wrong	Moderate	Sea good; wind W., 4 to 5; heavy roll on beach on 27th.
27th, 2.12 p.m.	Bad weather probable any direction between S.E. and S. and W.; glass rise soon; expect unusually heavy sea	Good	Moderate	Wind W.S.W., changing S. on 27th; glass fell for eight hours after receipt of warning, but rose again nearly four-tenths on 28th; sea heavy when warning received, but quite smooth that evening.
28th, 4.20 p.m.	Indications glass fall again, and strong easterly winds within thirty-six hours	Good	Light	Barometer continued rising until evening of 30th; wind changed to S. and E. on morning of 30th, very light.
30th, 2.45 p.m.	Bad weather probable any direction between S.E. and E. and N.; glass fall again soon, and sea increase within twenty-four hours	Wrong	Moderate	Barometer good; wind W.S.W. on 1st, 3 to 4; glass commenced falling on evening of 30th; sea smooth.

J. F. MARTIN, Telegraphist.

RETURN No. 2, showing Results of Storm-Warnings received at Auckland during the Month of June, 1879.

21st, 1.20 p.m.	Bad weather probable any direction between S.W. and S. and E.; glass fall within twenty-four hours; expect heavy gale	Good	Gale	Wind already S.W.; freshened considerably during 22nd at night, then went to W.S.W. and W., heavy squalls, and much rain; barometer wrong.
26th.	Bad weather probable any direction between S.E. and E. and N.; glass falling now in the North	Good	Heavy gale	Blowing heavily from N.E. during night of 26th, with much rain, changing to E. as night advanced.
27th, 1.46 p.m.	Bad weather probable any direction between S.E. and S. and W.; glass rise soon	Good	Fresh	Barometer good; wind changed from E., going south about to S.W.; several heavy squalls, but not of long duration.
28th, 3.29 p.m.	Bad weather probable any direction between S.E. and E. and N.; glass fall again	Good	Moderate	Barometer steady; wind shifting very much, from S.W. to E., and back again to S.W., but not strong; fell calm during night of 29th, but much rain.

R. A. LUSHER, Telegraphist.

RETURN No. 3, showing Results of Storm-Warnings received at Opotiki during the Month of June, 1879.

26th, 12.14 p.m.	Bad weather probable any direction between S.E. and E. and N.; glass further fall; expect heavy sea within twelve hours	Good	Gale	Barometer good; sea good; blew a gale during the night, and sea increased to very heavy, and glass fell over two-tenths.
27th, 5.33 p.m.	Bad weather probable any direction between S.E. and E. and N.; expect 29.30; wind change by S. and W. when glass rises	Good	Light	Sea continued very heavy; glass fell to 29.45 on 28th, when it began to rise again.
30th, 5.13 p.m.	Bad weather probable any direction between N.E. and E. and N.; glass fall again soon; expect heavy sea within twenty-four hours	Good	Gale	Barometer good; sea good; blew a gale during the night, with heavy sea off shore; glass fell about one-tenth.

S. ELLIOTT, Telegraphist.

RETURN No. 2, showing Results of Storm-Warnings received at Tophouse (altitude, 2,300 feet) during the Month of June, 1879.

23rd, 5.25 p.m.	Bad weather probable any direction between N. and W. and S.W.; glass fall again within twenty-four hours	Good	Strong gale	Strong gale during night of 23rd, W.S.W., with passing snow-showers; glass rose four-tenths.
25th, 5.25 p.m.	Bad weather probable any direction between N.E. and N. and W.; glass fall again within twenty-four hours	Good	Strong gale	Barometer good; strong gale during a.m. of 27th, with heavy squalls from N.E., with light rain-showers; glass fell four-tenths.
26th, 1 p.m.	Bad weather probable any direction between S.E. and E. and N.; glass further fall, and much rain	Good	Strong gale	Barometer good; heavy rain during p.m. of 28th.
28th, 5.7 p.m.	Bad weather probable any direction between E. and S. and S.W.; glass further fall	Wrong	Light	Barometer good; wind was never over force 3 all forty-eight hours; glass fell one-tenth.

W. J. WHITE, Telegraphist.

RETURN No. 1, showing Results of Storm-Warnings received at Bluff Harbour during June, 1879.

Date and Hour Received.	Indicated Weather.	Result.		Remarks.
		Direction of Wind.	Force of Wind.	
18th, 5 p.m.	Bad weather probable any direction between N. and W. and S.W.; glass further fall, but rise again within twenty-four hours	Wrong	Gale	19th, N.E., wind light, with thick rainy weather; 20th, S. to S.S.E. gale.
23rd, 4.26 p.m.	Bad weather probable any direction between N.W. and W. and S.; glass fall within twenty-four hours	Good	Fresh gale	Barometer wrong; 21st, wind backed to W.S.W., moderate; blew a fresh gale, with squalls, on 24th and 25th, but glass rose. Glass fell; good.
25th, 4 p.m.	Bad weather probable any direction between N. and W. and S.W.; glass fall	Good	Gale	
26th, 4 p.m.	Bad weather probable any direction between S.E. and E. and N.; glass further fall	Good	Fresh gale	Barometer good; fresh gale from E. commenced on the evening of 27th, and continued with more or less violence till 30th; glass fell about a tenth and a-half.

THOS. THOMSON, Harbourmaster.

Enclosure 2.

The MANAGER, Naval Training School, Kohimarama, to the SECRETARY, Marine Department.

SIR,—

Naval Training School, Kohimarama, 1st July, 1879.

I have the honor to transmit, for the information of the Hon. the Minister having charge of the administration of "The Naval Training Schools Act, 1874," the following, being the fifth annual report on the above-named institution:—

As regards the health of the boys, I am again in a position to make a satisfactory report. The only serious case during the year was that of No. 137, George Williams, aged eleven years and six months, who died on the 29th November, from peritonitis. This is the only death which has occurred since the opening of the school in December, 1874. The report of Dr. Goldsbro', the medical officer of the institution, is attached hereto.

The educational state of the boys is given in Table A, and shows a fair amount of progress.

In seamanship the progress has been satisfactory, and will, I have no doubt, be more so when the schooner at present building for the school, and which will shortly be completed, is taken into use. The recent addition of a room in which to utilize the very beautiful model brigantine (constructed by Mr. George Ossian Anderson during the time he was attached to the school as a seaman instructor) will be a great assistance in training the boys. I am fortunate in at present having two thorough seamen as instructors.

Table B gives the quantities of clothing made and other work done in the school. Mrs. Speight still continues to act as sewing instructress, and under her tuition the majority of the boys soon become very expert with the needle. Twenty-eight boys have been admitted and thirty-four discharged, leaving sixty-four now on the register. Of this number five are out on license. See Table D.

Table C contains the record of visits made by clergymen for the purpose of giving the boys religious instruction. I desire to record my thanks to Mr. W. St. Clair Tisdall, who, at the request of his Lordship the Bishop of Auckland, has been good enough to hold divine service in the school on the first Sunday in each month; and also to the Venerable Archdeacon Maunsell, to whose endeavours on our behalf I believe this arrangement to be due.

During the past twelve months the conduct of the boys generally has been more satisfactory than was shown in my last report, but the remarks therein made with reference to sections 9 and 10 of the Act still hold good, as will be seen by reference to Table E. In one instance a boy suffering from congenital cataract of both eyes to such an extent as to preclude his receiving instruction, was sent here under the provisions of section 10. Instances of absconding have been much less numerous. Full particulars of these are given in Table L.

The garden and farm work continues to yield good results; and I would strongly recommend that the institution should be supplied with proper farming appliances, as producing potatoes, green feed, &c., by hand-labour, entails too much heavy work on the boys, and a very serious loss of time. As regards other branches of instruction, with reference to this subject I would advise that (as another instructor will be required as soon as the schooner is taken over from the builders) a person competent to undertake the duties of schoolmaster and gardener should be procured (very few seamen are capable of superintending the gardening, which is here a matter of great importance), and that the present holder of the schoolmaster's position, who is a master mariner, should take that of sub-manager or mate. He would be available to take charge of the vessel when I was unable to go in her, and to exercise a proper supervision over the seamen instructors at such times as I might be absent from the school.

Table I gives the number of boys who have been apprenticed during the preceding twelve months, and the callings to which they have been indentured. A very extensive demand for boys for farm work continues to exist, and applications for them are frequent from those districts to which boys have been already sent; in some instances masters are so satisfied with the conduct of those they have obtained as to make applications for others.

Table K gives the conduct of the boys who have been apprenticed from the school since its establishment, and is compiled from written reports received from the masters of the boys, except where otherwise shown. Looking to the antecedents of most of these boys, the results must, I think, be considered most satisfactory.

The cost of victualling has been slightly over sixpence (6'188d.) per head per diem, which, as heretofore, includes fuel, soap, lights, seeds for farm and garden, and for ten weeks the cost of conveying the provisions from Auckland to the school. The remarks which I frequently hear made with reference to the appearance of the boys are to me sufficient evidence of their being well fed and cared for.

I desire to again bring under notice the desirability of erecting cottages, to enable the instructors to have their families resident at the school. It would, I believe, be the means of obviating the frequent changes which have hitherto occurred, and also very much reduce the frequent and very natural desire for leave to go to Auckland to visit their families, which at present exists, and with which, to retain men, I am obliged to comply. In the event of cottages being erected, I do not think it would be advisable to continue the present arrangement of victualling the instructors, but would suggest that in all future contracts for the supply of provisions it should be provided that the instructors should, if they desired it, be supplied by the contractor at contract rates. I would also recommend that the rates of pay should be increased. The men have to provide their own uniform, which entails considerable expense, and, although the work is not hard, it is very trying, and the hours very long—never less than fifteen hours a day on duty, and at times (as in the case of illness amongst the boys) night work as well. The frequent change of instructors not only entails a very large amount of extra work and worry on myself, but is anything but conducive to discipline and the efficient conduct of the school.

The establishment of a penal school is a matter which I feel it my duty to again bring under consideration, as I am satisfied that the full benefit which should result from the proper working of the existing institutions will not be obtained until this is done. The want of classification is not only very detrimental to the boys whilst in the school, but, in many instances, is made a strong ground of objection to taking them as apprentices.

A place for the boys to play in during wet weather, and at night, is a great want. The school-room is too small, and, in addition, it is impossible for those who are studiously inclined (and we are not without them) to do anything in the way of improving their minds with a general game of romps going on around them.

I desire to record my thanks to those friends who have subscribed towards a fund for the amusement of the boys, especially to Dr. Goldsbro' for the trouble he has taken in collecting for this object, and to Henry Brett, Esq., the late Mayor of Auckland, who in October last, for the second time, gave the whole school tickets of admission to a circus.

I have, &c.

The Secretary, Marine Department.

G. R. BRETON, Manager.

A.—TABLE showing the Educational State of Boys.

Particulars.	Read.				Write.				Cipher.			
	Well.	Indifferently.	Not.	Total.	Well.	Indifferently.	Not.	Total.	Well.	Indifferently.	Not.	Total.
Remaining on 30th June, 1878 ...	41	27	2	70	32	31	7	70	8	58	4	70
Admitted during year ending 30th June, 1879 ...	5	14	9	28	4	15	9	28	3	10	15	28
Total ...	46	41	11	98	36	46	16	98	11	68	19	98
Discharged during year ending 30th June, 1879 ...	22	12	...	34	21	13	...	34	11	23	...	34
Remaining on 30th June, 1879 ...	30	34	...	64	33	31	...	64	17	47	...	64
Total ...	52	46	...	98	54	44	...	98	28	70	...	98

B.—RETURN of Articles Manufactured and Work Done in the School during the Year ending 30th June, 1879, with estimated Cost of Labour employed.

Articles.	Quantity.	Rate.	Price.	Articles.	Quantity.	Rate.	Price.
		s. d.	£ s. d.			s. d.	£ s. d.
Trousers, serge ...	131	1 10	12 0 2	Amount brought forward ...	...	...	66 1 8½
„ duck ...	113	1 0	5 13 0	Table for hospital ...	1	...	0 5 0
„ oilskin ...	60	1 0	3 0 0	Lanterns glazed ...	6	0 6	0 3 0
Frocks, serge ...	129	1 5½	9 8 1½	Repairs to boats ...	...	...	1 10 0
Jumpers, duck ...	95	1 0	4 15 0	Paling fences ...	...	...	0 10 0
„ oilskin ...	60	1 0	3 0 0	Repairs to wheelbarrow ...	...	...	0 1 6
Flannel shirts ...	129	0 7	3 15 3	Making hoe, rake, and broom handles ...	...	...	0 7 0
Mattress covers ...	63	0 6	1 11 6	Fitting posts for clothes-lines ...	...	...	1 0 0
Pillow covers ...	64	0 1½	0 8 0	Building pigsty ...	...	...	2 0 0
Neckerchiefs ...	48	0 2	0 8 0	New shelves in larder ...	...	...	0 10 0
Caps, serge ...	135	1 0	6 15 0	Locker for fifes and drums ...	...	...	0 10 0
„ duck ...	122	1 0	6 2 0	Repairs to coal-shed ...	...	...	0 5 0
Towels ...	125	0 1	0 10 5	Bunk and locker in staff-room ...	...	...	0 5 0
Southwesters ...	48	1 3	3 0 0	Oars and boat-hooks fitted and repaired ...	36	0 6	0 18 0
Pillow-cases ...	2	0 1½	0 0 3	Painting boats ...	...	...	2 0 0
Sheets ...	2	0 6	0 1 0	Fitting and painting room for sewing instructress ...	...	...	0 15 0
Repairs to boat's sails ...	2	...	0 4 0	Painting hospital ...	...	...	1 0 0
Laying new floor in and repairing gaol ...	80 feet	...	2 15 0	Windows glazed ...	50	0 3	0 12 6
Ornamental fencing erected ...	...	...	1 10 0	Buckets made ...	5	4 0	1 0 0
New washing-up table for kitchen ...	1	...	0 5 0	Model brigantine made ...	...	...	5 0 0
Repairs to closets ...	...	...	1 0 0				
Amount carried forward ...	...	...	66 1 8½	Total ...	...	...	84 13 8½

C.—TABLE showing the Visits of Clergymen for Divine Service and Religious Instruction during the Year ending 30th June, 1879.

Church of England.	Roman Catholic.	Mr. W. St. Clair Tisdall.
30	21	7

D.—RETURN of Admissions and Discharges during the Year ending 30th June, 1879.

Admitted.	Number.	Discharged.	Number.
Remaining on 30th June, 1878	70	Apprenticed	14
New boys received	28	Time expired	12*
		On application of relatives	5
		On attaining fifteen years of age	1
		Dead	1
		Physically unfit	1

* Four of these were out at service, and one sent back for another term.
Remaining on 30th June, 1879, sixty-four, of whom five are out on license.

E.—TABLE showing particulars of Parentage of Boys received during Year ending 30th June, 1879.

Number of Boys Received.	Both Parents Living.	One Parent Living.	Both Parents Dead.	Unknown.
28	11	15	...	2

Circumstances as shown in Register.

Sent under Section 8 of Act	9	Step-mother	1
" " 9 "	5	Step-father; boy described as having no home	1
" " 10 "	13	Father deserted; mother confirmed invalid	1
" " 11 "	1	Pleaded guilty to stealing a duck; sent under Section 8	1
		Father blind; mother supporting family	1
		Attempting to set a house on fire; sent under Section 8	1
		Sent for the second time, sea indentures having been cancelled for physical unfitness	1
		Had been charged with larceny, and pleaded guilty; sent under Section 10	1
		Step-father	1
		Had been living with a Maori	1
		Pleaded guilty to stealing money from a till; not the first offence	1
		Stole two axes and a five-pound note; several of family addicted to petty theft	1
		Stole a candlestick from his employer	1
		Stole a sum of money	1
		Sent, for second time, under Section 8; originally under Section 10	1
		Congenital cataract of both eyes	1
		Stole a gold watch and chain	1
		No particulars received	11
Total	28	Total	28

F.—TABLE showing from whence Boys have been received during the Year ending 30th June, 1879.

Hokitika	1	Thames	2
Auckland	10	Cromwell	1
Coromandel	2	Reefton	1
Kumara	1	Westport	3
Opotiki	1	Hamilton	2
Pictou	1		
Te Awamutu	1	Total	28
Onehunga	2		

G.—TABLE showing Ages of Boys received during the Year ending 30th June, 1879.

Number of Boys Received.	Aged.				
	10	11	12	13	14
28	4	7	11	4	2

H.—TABLE showing Religion of Boys received during the Year ending 30th June, 1879.

Presbyterian.	Church of England.	Wesleyan.	Roman Catholic.	Protestant.	Total.
5	11	1	10	1	23

I.—TABLE showing Number of Boys Apprenticed from the School during Twelve Months ending 30th June, 1879.

When Apprenticed.	Seamen.	Farmers.	Confectioners.	Total.
Between 1st July, 1878, and 30th June, 1879	12	1	1	14

K.—TABLE showing Conduct of Boys Apprenticed from the School.

Particulars.	Good Report.	Fair Report.	Indifferent Report.	Bad Report.	No Report.	Total.
Indentures cancelled ...	2 verbal	...	...	3	...	5
Indentures expired ...	2	2	...	...	1	5
Boys deserted ...	2, one of these verbal	...	...	3, one of these verbal	...	5
Boys serving their indentures	16	4	2	2	14	38
Total apprenticed ...	...	...	...	...	...	53

L.—RETURN of Absconders during Twelve Months ending 30th June, 1879.

Boys' Names.	No.	No. of times absconded during above-named period.	Previous to 1st July, 1878.	Remarks.
Heatley, Charles ...	149	2	2	Brought back by police.
Courtis, Arthur ...	150	1	1	Ditto.
Agnew, Benjamin ...	135	2	2	Ditto.
Miller, William Clements ...	89	1	...	Ditto.
McComish, Adam ...	146	3	...	Ditto.
Carling, Harry ...	85	1	...	Ditto.
Vile, William ...	93	1	...	Ditto.
Smith, Charles E. ...	144	1	...	Ditto.
Towers, Edgar ...	100	1	2	Ditto.
Hinds, Archibald ...	124	1	...	Ditto.
Forrest, William ...	134	1	...	Ditto.
Cooper, George ...	143	1	...	Ditto.
Kneebone, Joseph Richard ...	153	1	...	Ditto.
Looney, Daniel ...	154	1	...	Ditto.
Brennan, David ...	147	1	...	Returned voluntarily.

Enclosure 3.

Dr. GOLDSBRO' to the SECRETARY of the Marine Department.

Auckland, 30th June, 1879.

SIR,—

I have the honor to report that the health of the boys in the Government Training Ship and School has for the last twelve months been, on the whole, satisfactory. No epidemic has appeared.

With the exception of serious cases of abscesses in the thighs of two of the boys, there were none requiring operations of a dangerous nature. In one (Wm. Bateman) the abscess was so large that I had him removed to the Provincial District Hospital, where I could visit him more frequently and obtain better attendance than at the school. He made a perfect recovery.

I regret to have to chronicle our first death (George Williams), from peritonitis (inflammation of the bowels), on the 29th of November, 1878. This was a very rapid and serious case.

I have the satisfaction of stating that at present there is not a single case of itch in the establishment. This disease has for the last two years been a source of great annoyance to all concerned.

The ward for isolating contagious diseases is now finished, and will be a most valuable adjunct in a sanitary point of view. The oven for fumigating clothes and bedding is also completed, but not yet available.

I visited the institution sixty-four times, made ten visits to Wm. Bateman in the Provincial District Hospital, two night and four special day journeys to Kohimarama, examined every candidate on admission, and inspected the whole of the boys weekly. Three hundred and eighty-six cases came under my notice and treatment during the year.

The monthly average number of boys in the school during the year was $58\frac{1}{2}$.

1878.			1879.		
July ...	...	63	January ...	...	54
August ...	...	61	February ...	...	57
September ...	...	61	March ...	...	60
October ...	...	57	April ...	...	57
November ...	...	55	May ...	...	58
December ...	...	55	June ...	...	59

The chief diseases, &c., were—Peritonitis (fatal), bronchitis, jaundice, coughs and colds, abscesses on lower extremities, abscesses in ears, boils and whitlows, cuts and bruises, dislocation of thumb, Maori poek and itch, colic, disease of ankle-joint.

E. Wilton, who has been for upwards of two years suffering from disease of the bones of the leg, requiring many operations, is at length well, and able to resume his ordinary duties.

Robert Church (committed by the Resident Magistrate, Auckland) had congenital cataract of both eyes. Upon referring the case to the authorities the boy was discharged as unfit for the school. This has led to the institution of a preliminary medical examination of all candidates for admission before sending them to Kohimarama.

In consequence of the breaking-down of the Government steam-launch several times I have been compelled to go by the road, portions of which are in a state of disrepair at all times, and at present absolutely dangerous and almost impassable.

I have again to record my obligations to Captain Breton for the assistance rendered during my absence and presence. His kindness to the sick, and zeal shown in attending to their comfort and well-doing, merit my most sincere thanks.

I have, &c.,

The Secretary, Marine Department,
Wellington.

CHARLES F. GOLDSBRO', M.D., F.R.C.P., &c.,
Medical Officer.

RETURN showing the Total Ordinary Expenditure of the Marine Department during the Financial Year ended the 30th June, 1879.

Nature of Expenditure.	Details of Expenditure.	Totals.	Grand Total.
Head Office:—	£ s. d.	£ s. d.	£ s. d.
Secretary ...	500 0 0		
Chief Clerk ...	350 0 0		
Clerk ...	175 0 0		
Clerk ...	114 17 4		
Messenger ...	60 0 0		
Marine Engineer ...	300 0 0		
Draftsmen ...	345 15 3		
Engineer-Surveyor ...	212 10 0		
Local Engineer-Surveyors ...	100 0 0		
Examiner of Masters and Mates ...	100 0 0		
Local Examiners of Masters and Mates... ..	225 0 0		
Cost of Inquiries into Wrecks and Casualties ...	263 2 2		
Survey of Unseaworthy Ships ...	9 8 0		
		2,755 12 9	
Harbours:—			2,755 12 9
Manukau,—			
Salaries ...	708 0 0		
Repairs to Signal Station ...	100 11 2		
Overhauling and Repairing Buoys ...	247 10 8		
Contingencies ...	50 0 0		
		1,106 1 10	
Bean Rock Lighthouse,—			
Salaries ...	150 0 0		
Oil and Contingencies ...	6 18 0		
		156 18 0	
Russell,—			
Salaries ...	294 0 0		
Removing and Repairing Cottages ...	60 0 0		
Contingencies ...	28 11 3		
		382 11 3	
Carried forward ...	...	1,645 11 1	2,755 12 9

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

Nature of Expenditure.					Details of Expenditure.			Totals.			Grand Total.		
Brought forward					£	s.	d.	£	s.	d.	£	s.	d.
Harbours— <i>continued.</i>					...			1,645	11	1	2,755	12	9
Whangaroa,—													
Salaries	...	...	...	...	100	0	0						
Contingencies	...	...	...	...	15	0	0						
Hokianga,—													
Salaries	...	...	...	...	424	0	0						
Whangarei,—													
Subsidy to Ferryman	...	...	...	...	50	0	0						
Contingencies	...	...	...	...	11	17	0				61	17	0
Kaipara,—													
Salaries	...	...	...	...	673	8	9						
Buoys and Beacons	...	...	...	...	235	4	3						
Contingencies	...	...	...	...	188	6	2						
Waitara,—													
Salaries	...	...	...	...	112	10	0						
Contingencies	...	...	...	...	14	10	2						
New Plymouth,—													
Salaries	...	...	...	...	321	0	0						
Contingencies	...	...	...	...	7	7	6						
Patea (six months),—													
Salaries	...	...	...	...	50	0	0						
Contingencies	...	...	...	...	44	2	10						
Foxton,—													
Salaries	...	...	...	...	345	7	0						
Repairs, &c., to Signal Station	...	...	...	...	83	18	6						
Contingencies	...	...	...	...	34	4	7						
Rangitikei,—													
Salaries	...	...	...	...	150	0	0						
Contingencies	...	...	...	...	6	18	2						
Wellington,—													
Salaries	...	...	...	...	2,203	1	0						
Contingencies	...	...	...	...	94	4	1						
Some's Island Lighthouse,—													
Salaries	...	...	...	...	271	13	4						
Oil and Contingencies	...	...	...	...	51	7	6						
Napier Bluff Lighthouse,—													
Salaries	...	...	...	...	257	15	0						
Oil and Contingencies	...	...	...	...	46	18	6						
Wairoa,—													
Salaries	...	...	...	...	100	0	0						
Tauranga,—													
Salaries	...	...	...	...	294	0	0						
Contingencies	...	...	...	...	43	13	9						
Survey of Harbour	...	...	...	...	90	3	7						
Wangawehi Light,—													
Salaries, Oil, &c....	...	...	...	...	40	0	0						
Gisborne,—													
Salaries	...	...	...	...	355	0	0						
Erection of Flagstaff	...	...	...	...	65	7	0						
Contingencies	...	...	...	...	70	19	7						
Wairau,—													
Salaries	...	...	...	...	132	0	0						
Contingencies	...	...	...	...	21	1	4						
Picton,—													
Salaries	...	...	...	...	129	0	0						
Contingencies	...	...	...	...	14	0	10						
Havelock,—													
Salaries	...	...	...	...	53	12	7						
Contingencies	...	...	...	...	9	9	6						
Nelson,—													
Salaries	...	...	...	...	1,345	0	0						
Contingencies	...	...	...	...	58	10	7						
Carried forward	...	...	...	...	...	...	...	10,260	4	2	2,755	12	9

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

Nature of Expenditure.					Details of Expenditure.		Totals.		Grand Total.				
					£	s.	d.	£	s.	d.			
Brought forward ... ..					...			10,260	4	2	2,755	12	9
Harbours— <i>continued.</i>													
Waitapu,—													
				Salaries	25	0	0						
				Contingencies	1	0	0						
								26	0	0			
Motueka,—													
				Repairs to Wharf	177	8	7						
				Contingencies	3	4	0						
								180	12	7			
Riwaka,—													
				Salaries	6	0	0						
				Contingencies	6	14	8						
								12	14	8			
Collingwood,—													
				Salaries	25	0	0						
				Contingencies	44	2	6						
								69	2	6			
Karamea,—													
				Contingencies	19	18	6						
								19	18	6			
Westport,—													
				Salaries	410	0	0						
				Contingencies	116	15	2						
								526	15	2			
Greymouth,—													
				Salaries	435	0	0						
				Contingencies	176	12	0						
								611	12	0			
Hokitika,—													
				Salaries	722	0	0						
				Contingencies	136	4	4						
								858	4	4			
Okarito,—													
				Salaries	50	0	0						
				Contingencies	98	5	1						
								148	5	1			
Riverton,—													
				Contingencies	54	0	0						
								54	0	0			
Catlin's River,—													
				Salaries	125	0	0						
				Contingencies	39	1	0						
								164	1	0			
Waikawa,—													
				Salaries	50	0	0						
								50	0	0			
Port Chalmers Graving Dock,—													
				Wages and Contingencies	1,122	18	4						
				Interest on Dock Loan	1,052	0	0						
								2,174	18	4			
Waikouaiti,—													
				Salaries	75	0	0						
				Contingencies	10	2	10						
								85	2	10			
Kakanui,—													
				Salaries	150	0	0						
								150	0	0			
Akaroa,—													
				Salaries	25	0	0						
				Contingencies	38	11	6						
								63	11	6			
Sumner,—													
				Salaries	115	0	0						
				Contingencies	32	8	5						
								147	8	5			
Kaiapoi,—													
				Salaries	120	0	0						
				Contingencies	17	4	11						
								137	4	11			
Kaikoura,—													
				Salaries	50	0	0						
				Contingencies	5	8	0						
								55	8	0			
Martin's Bay,—													
				Salaries	119	1	8						
				Contingencies	13	12	5						
								132	14	1			
Stewart Island,—													
				Salaries	10	0	0						
								10	0	0			
Carried forward ... ..					...			15,937	18	1	2,755	12	9

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

Nature of Expenditure.	Details of Expenditure.	Totals.	Grand Total.
Brought forward	£ s. d.	£ s. d.	£ s. d.
Harbours— <i>continued.</i>	...	15,937 18 1	2,755 12 9
Freight, &c., on Port Lights ... ..	...	5 17 1	
Expenses under "Thames Harbour Board Act, 1878" ... ..	...	130 0 0	
Balance of Sir J. Coode's General Fee for Inspection of Harbours ... ..	...	575 0 0	
Collection of Data on Gisborne Harbour for Sir John Coode ... ..	...	257 2 4	
Collection of Data on Wairoa River for Sir John Coode ... ..	...	495 19 9	
Collection of Data on Milford Lagoon for Sir John Coode ... ..	...	250 0 0	
			17,651 17 3
Lighthouses,—			
Salaries	5,597 5 11		
Repairs	72 0 8		
Probationary Keepers	30 13 6		
Lightkeeper's Travelling Expenses	46 12 5		
Oil	887 0 4		
Stores and Contingencies	1,051 2 11		
Lighthouse Artificer	240 0 0		
		7,924 15 9	7,924 15 9
Departmental Travelling Expenses		187 7 8	
Coastal Buoys and Beacons		16 1 6	
Charts		34 3 8	
Sundries		111 13 3	
Pension of Widow of late Lightkeeper Deck		23 19 11	
			373 6 0
"Stella" s.s.		5,318 14 5	
Less Ration Money		47 0 3	
			5,271 14 2
"Hinemoa" s.s.		8,500 16 3	
Less Ration Money		153 19 7	
			8,346 16 8
Naval Training School at Kohimarama,—			
Manager	240 0 0		
Schoolmaster	107 18 6		
Instructors, &c.	259 13 2		
Repairs and Additions to Buildings	130 0 0		
New Vessel (half cost)	400 0 0		
Provisions, Clothing, and Contingencies	1,015 13 1		
		2,153 4 9	2,153 4 9
Weather Reporting,—			
Officer in Charge	300 0 0		
Assistant	52 19 0		
Salaries of Officers at Out-stations	514 0 0		
Contingencies	2 15 8		
		869 14 8	869 14 8
Totals			45,347 2 0

RETURN showing the Cost of Maintenance of the New Zealand Lighthouses during the Financial Year ended 30th June, 1879.

Name of Lighthouse.	Salaries.	Oil.*	Stores and Contingencies.	Totals.
	£ s. d.	£ s. d.	£ s. d.	£ s. d.
Cape Maria van Diemen	209 0 4	25 6 8	32 17 4	267 4 4
Tiritiri	273 5 5	49 13 0	†106 10 2	429 8 7
Ponui Passage	134 17 4	10 10 0	67 4 9	212 12 1
Portland Island	382 2 0	55 7 0	61 16 5	499 5 5
Pencarrow Head	230 0 0	54 5 0	51 6 7	335 11 7
Manukau Head	266 13 4	51 6 0	17 8 6	335 7 10
Brothers	604 6 8	72 16 0	94 18 6	772 1 2
Cape Campbell	258 12 11	52 4 0	57 5 4	368 2 3
Godley Head	350 0 0	34 5 0	39 4 10	423 9 10
Moeraki	270 0 0	52 11 0	13 14 9	336 5 9
Taiaroa Head	254 8 1	43 7 0	20 3 9	317 18 10
Nugget Point	285 16 8	72 4 0	†149 0 5	507 1 1
Dog Island	381 13 4	69 3 0	63 14 2	514 10 6
Centre Island	379 16 6	73 0 0	56 9 3	509 5 9
Puysegur Point	366 13 4	35 18 0	84 10 0	487 1 4
Cape Foulwind	260 0 0	58 17 0	103 6 1	422 3 1
Farewell Spit	410 0 0	43 11 0	67 4 4	520 15 4
Nelson	280 0 0	27 2 0	35 16 0	342 18 0
Totals	5,597 5 11	887 0 4	1,051 2 11	7,535 9 2.

* This does not include the total cost of the oil consumed during the year, as accounts for a large quantity have not yet been rendered. † Includes £72 Os. 8d. for repairs. ‡ Includes cost of new paraffin burners.

RETURN showing the Quantity of Oil Consumed at the New Zealand Coastal Lighthouses during the Year ended 30th June, 1879.

Name of Lighthouse.	Gallons Consumed.
Cape Maria van Diemen	239
Tiritiri*	466
Portland Island	528
Nelson	252
Pencarrow Head*	513
Manukau	481
Brothers	680
Cape Campbell	488
Godley Head	321
Moeraki	492
Taiaroa Head	403
Nugget Head	674
Dog Island	644
Cape Foulwind	550
Farewell Spit*	405
Centre Island	681
Puysegur Point	334
Total	8,151

* These lights burn colza, the others paraffin oil.

DESCRIPTIVE RETURN of New Zealand Coastal Lighthouses.

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

RETURN showing the Number of Masters, Mates, and Engineers examined during the Year ended 30th June, 1879, distinguishing the Number of Successful and Unsuccessful Candidates.

CLASS OF CERTIFICATE.	AUCKLAND.			WELLINGTON.			DUNEDIN.			LYTTELTON.			NELSON.			TOTALS.		
	Passed.	Failed.	Total.	Passed.	Failed.	Total.	Passed.	Failed.	Total.	Passed.	Failed.	Total.	Passed.	Failed.	Total.	Passed.	Failed.	Total.
Foreign-going Masters and Mates	12	14	26	5	4	9	18	2	20	...	...	...	...	...	...	35	20	55
Home-Trade Masters and Mates	12	3	15	13	7	20	5	...	5	...	...	...	...	...	...	30	10	40
River Steamer Masters	3	...	3	1	...	1	2	...	2	...	...	...	...	...	...	6	...	6
Sea-going Engineers	4	...	4	5	...	5	4	...	4	1	...	1	...	...	...	14	...	14
River Steamer Engineers	6	...	6	...	...	...	4	...	4	4	2	6	1	...	1	15	2	17
Totals ...	37	17	54	24	11	35	33	2	35	5	2	7	1	...	1	100	32	132

STATEMENT showing the Amount of Light Dues collected in New Zealand during the Financial Year ended 30th June, 1879.

Name of Port at which Collected.	Amount Collected.	Name of Port at which Collected.	Amount Collected.
	£ s. d.		£ s. d.
Auckland	1,725 5 5	Brought forward	5,568 14 4
Onehunga	111 5 10	Havelock	10 5 2
Whangaroa	12 0 6	Kaikoura	14 15 0
Kaipara	50 6 11	Nelson	680 13 7
Thames	15 8 5	Westport	133 7 6
Russell	119 16 9	Greymouth	112 2 6
Hokianga	9 1 10	Hokitika	45 4 6
Whangarei	19 3 7	Lyttelton	3,101 7 0
Tauranga	68 2 6	Timaru	142 9 3
Poverty Bay	83 4 6	Oamaru	168 14 9
New Plymouth	67 19 1	Kakanui	3 3 10
Wanganui	85 6 4	Dunedin	2,815 19 4
Rangitikei	0 3 2	Invercargill	27 3 8
Foxton	15 3 5	Bluff	835 6 2
Patea	1 5 0	Riverton	5 3 4
Wellington	2,766 16 3		
Napier	272 3 5	Total for 1878-79	£13,664 9 11
Wairau	20 18 7		
Pictou	125 2 10	Total for 1877-78	£11,517 19 2
Carried forward	5,568 14 4		

RETURN of Steam Vessels to which Passenger Certificates have been issued in New Zealand during the Financial Year 1878-79.

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	
Anne Milbank	44	24	Paddle	Extended River	Non-condensing	
Antrim	35	30	"	River	"	
Argyle	126	40	Screw	Sea-going	Compound	
Balclutha	84	50	Stern-wheel	River	Non-condensing	
Beautiful Star	126	30	Screw	Sea-going	Condensing	
Bella	12	12	"	Extended River	Non-condensing	
Black Diamond	9	20	"	River	"	
Bridgewater ... ..	...	...	...	"	"	New Vessel.
Charles Edward	89	60	Screw	Sea-going	Condensing	
City of Cork	29	40	Paddle	River	"	
Clyde	27	32	Twin-screw	Extended River	Non-condensing	
Clyde	34	12	Screw	River	"	New Vessel.
Coomarang	152	70	Paddle	"	Condensing	
Coromandel	68	25	Screw	Sea	Compound	New Vessel.
Delta	60	30	Paddle	River	Non-condensing	
Devonport	23	12	"	"	"	
Dispatch	38	40	"	Sea-going	Condensing	
Dunoon	7	10	Twin-screw	River	Non-condensing	
Durham	54	30	Screw	Extended River	Compound	
Easby	969	140	"	Sea-going	"	
Enterprise No. 2	61	32	Paddle	Extended River	Non-condensing	
Eclipse	8	8	Screw	River	"	
Fairy	4	4	"	"	"	
Fairy	33	15	"	Extended River	"	
Geelong	108	70	Paddle	"	Condensing	
Gemini	11	7	Twin-screw	River	Non-condensing	
Glenelg	156	75	Screw	Sea-going	Compound	New Vessel.
Go-Ahead	82	30	Twin-screw	"	Condensing	
Grafton	270	100	"	"	Compound	
Hannah Mokau	35	15	Screw	River	Non-condensing	New Vessel.
Hauraki	73	45	Paddle	Sea-going	Condensing	
Hawea	461	160	Screw	"	Compound	
Huia	107	25	"	"	"	New Vessel.
Ida	12	10	"	River	Non-condensing	
Ino	24	12	Twin-screw	Extended River	"	
Iona	159	65	Screw	Sea-going	Compound	
Iona	97	45	Stern-wheel	River	Non-condensing	
Iron Age	36	30	Paddle	"	Compound	
Jane	25	8	Screw	Extended River	Non-condensing	
Jane Douglas	75	20	"	Sea-going	Compound	
Jane Williams	33	15	"	River	Non-condensing	
Kati Kati	15	9	"	"	"	New Vessel.
Kennedy	138	50	"	Sea-going	Compound	
Kina	39	15	"	Extended River	Condensing	
Kiwi	133	30	"	Sea-going	Compound	
Koputai	5	120	Paddle	"	"	

RETURN of Steam Vessels to which Passenger Certificates have been issued, &c.—*continued.*

Name of Vessel.	Tons Register.	Horse-power of Engines.	Nature of Propeller.	Class of Certificate.	Nature of Engines.	Remarks.
La Buona Ventura ...	4	4	Screw	River	Non-condensing	Steam Launch.
Lady Barkley ...	30	25	Paddle	Extended River	Condensing	
Lady Bird ...	287	70	Screw	Sea-going	"	
Lalla Rookh ...	23	14	Paddle	Extended River	Non-condensing	
Lilie ...	10	10	"	River	"	
Lioness ...	26	60	"	Sea-going	Condensing	
Lily ...	4	6	Screw	River	Non-condensing	
Lily ...	20	10	Twin-screw	Extended River	"	Steam Launch.
Little Irishman ...	6	8	Screw	River	"	New Vessel.
Lyttelton ...	86	25	Paddle	Sea-going	Condensing	
Lyttelton ...	6	14	Twin-screw	Extended River	Non-condensing	Steam Launch.
Manaiā ...	62	30	Paddle	"	"	
Manawatu ...	103	45	"	Sea-going	Condensing	
Maori ...	118	60	Screw	"	"	
Mensahib ...	6	4	"	River	Non-condensing	New Vessel.
Minnie Casey ...	43	25	"	Extended River	Compound	
Mohaka ...	20	12	"	"	Non-condensing	
Moa ...	49	25	"	River	Condensing	
Mountaineer ...	66	25	Paddle	"	Compound	New Vessel.
Murray ...	78	18	Screw	Sea-going	Condensing	
Napier ...	44	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	New Vessel.
Pearl ...	14	5	Screw	River	Non-condensing	
Pelorus ...	18	12	"	"	"	New Vessel.
Peninsula ...	31	18	Paddle	"	"	
Piako ...	8	8	"	"	"	
Pioneer ...	18	10	Screw	"	"	
Pioneer ...	10	6	"	"	"	Steam Launch.
Portobello ...	11	10	Paddle	"	"	
Pretty Jane ...	101	35	Screw	Sea-going	Condensing	
Rangatira ...	186	50	"	"	"	
Result ...	18	20	"	Extended River	Non-condensing	
Result ...	13	10	Paddle	"	"	
Rangiriri ...	30	30	Stern-wheel	River	"	
Reynolds ...	10	14	Screw	"	"	
Biro Riro ...	4	4	"	"	"	Steam Launch.
Rose Casey ...	99	40	"	"	Compound	New Vessel.
Rosina ...	19	14	"	Extended River	Non-condensing	
Rotoiti ...	17	15	"	"	"	
Rotomahana ...	188	45	"	Sea-going	Condensing	
Rotorua ...	576	172	"	"	Compound	
Rowena ...	74	30	"	"	"	
Ruby ...	20	29	Paddle	River	Non-condensing	
Samson ...	111	70	"	Sea-going	Condensing	
Scotchman ...	20	10	Screw	River	Non-condensing	
Shag ...	31	27	"	Sea-going	"	
Sir Donald ...	29	12	"	Extended River	Condensing	
Southern Cross ...	139	50	"	Sea-going	Compound	
St. Kilda ...	174	45	"	"	Condensing	
Staffa ...	40	25	"	Extended River	"	
Star of the South ...	175	45	"	Sea-going	Compound	
Stormbird ...	67	30	"	"	Condensing	
Tainui ...	47	22	Paddle	Extended River	Non-condensing	
Taiaroa ...	228	110	Screw	Sea-going	Compound	
Takapuna ...	58	20	Paddle	River	Non-condensing	
Tam o' Shanter ...	10	7	Screw	"	"	
Tangihua ...	20	15	"	"	"	
Taranaki ...	298	90	"	Sea-going	Compound	
Tararua ...	563	140	"	"	"	
Taupo ...	461	160	"	"	"	
Te Aroha ...	50	14	Paddle	River	Non-condensing	
Titan ...	21	55	"	Extended River	Condensing	
Tongariro ...	39	10	"	"	Non-condensing	
Tongariro ...	62	25	"	"	"	
Transit ...	12	10	"	River	"	
Tui ...	64	20	Screw	Sea-going	Compound	
Waikato ...	61	14	Paddle	River	Non-condensing	
Waipara ...	70	30	Twin-screw	Sea-going	"	
Waitaki ...	228	90	Screw	"	Compound	
Waitara ...	11	15	"	Extended River	Non-condensing	
Wakatipu ...	1,158	256	"	Sea-going	Compound	
Wallabi ...	101	25	"	"	Condensing	
Wallace ...	64	50	Paddle	"	"	
Wanaka ...	277	120	Screw	"	Compound	
Wanganui ...	165	50	"	"	Condensing	
Wellington ...	261	80	"	"	"	
Total, 128 Vessels	12,672	4,866				

RETURN of Masters, Mates, and Engineers to whom Certificates of Competency have been granted during the Financial Year 1878-79.

Name of Person.	Rank for which granted.	Class of Certificate.	Date of Issue of Certificate.	Number of Certificate.
John Morgans	Master	Foreign Trade	5th July, 1878	169
Martin Huggett	Only Mate	"	11th " "	170
Alexander Murphy	Master	"	24th " "	103
John Bushell	Second Mate	"	13th Aug., "	171
John Bushell	Master	"	3rd Sept., "	171
John Grant	Only Mate	"	3rd " "	172
Charles McFarlane	First Mate	"	20th " "	173
John Curran	"	"	21st Oct., "	131
William Henry Heays... ..	Master	"	21st " "	175
Walter James Rogers	First Mate	"	21st " "	176
Hugh Hocking Raddon	Master	"	21st " "	177
Asmus Christian Poulsen	"	"	21st " "	174
Francis George Garrard	"	"	23rd " "	178
Joseph Goodman	"	"	26th " "	136
Edwin Phillips	Second Mate	"	28th " "	179
John Lees	First Mate	"	28th " "	180
Richard Edward Smith	"	"	28th " "	181
William Martin Owens	Master	"	12th April, 1879*	105
Theodore Thomas Watts	"	"	15th " "	93
Joseph Anderson	"	"	15th " "	110
John Anderson	"	"	15th " "	182
Robert Atherton Edwin	"	"	15th " "	183
William Stannard	"	"	15th " "	184
Thomas Hudson	Only Mate	"	15th " "	185
Hans Christian Pedersen	First Mate	"	15th " "	186
Kenneth McKenzie	Only Mate	"	24th " "	187
Frank Hedges	"	"	28th " "	188
Niels Peter Svendsen	"	"	29th " "	189
Evan Davies	Master	"	1st May, "	190
John William Cumming	First Mate	"	21st " "	138
Frederick William Highfield	Master	"	5th June, "	191
George Henry Crone	"	"	10th " "	192
John Falconer	"	"	10th " "	193
Charles Frederick Sundstrom	"	"	21st " "	194
Francis George Garrard	"	"	21st " "	178
Alexander McIntosh	First Mate	"	25th " "	195
Thomas Swede	Master	Home Trade	19th Sept., 1878	5,145
Frederick Johnson	"	"	22nd Oct., "	5,146
Donald McDonald	Mate	"	22nd " "	5,147
James Ryan	"	"	28th " "	5,148
George Herbert	Master	"	10th April, 1879	5,149
Oscar Jarman	Mate	"	10th " "	5,150
John Coles	Master	"	10th " "	5,151
Charles Huntley	"	"	10th " "	5,152
Henry Heyhoe	Mate	"	10th " "	5,153
Charles Lawson	Master	"	16th " "	5,154
John Cox	Mate	"	16th " "	5,155
Eugene McCarthy	Master	"	16th " "	5,156
James Smith	Mate	"	16th " "	5,157
Neil McDonald	Master	"	16th " "	5,158
Rudolph Prohl	Mate	"	16th " "	5,159
Douglas Hanning	Master	"	16th " "	5,160
Martin Jensen	Mate	"	16th " "	5,161
William George North	Master	"	16th " "	5,162
Louis S. Dean	Mate	"	16th " "	5,163
William Aubrey	Master	"	16th " "	5,164
John Steel Elgie	Mate	"	16th " "	5,165
John Botham	Master	"	16th " "	5,166
Henry Anderson	"	"	16th " "	5,167
Thomas Bailey	"	"	21st " "	5,168
William Thompson	"	"	29th " "	5,169
Charles Frederick Backstrom	"	"	30th " "	5,170
William Ross	"	"	10th May, "	5,171
William Robertson	Mate	"	10th " "	5,172
John William Nicholson	Master	"	26th " "	5,173
Alfred Johnston	"	"	7th June, "	5,137
Samuel Benny	Mate	"	7th " "	5,174
Daniel Brewer	Master	"	21st " "	5,175
Henry William Tizard	1st class Engineer	Foreign Trade	12th April, "	51
George Chappell	"	"	15th " "	14
William Meffan Mowatt	"	"	15th " "	52
Benjamin Robert Ackroyd	2nd class	"	15th " "	53
William Gear Clarke	"	"	15th " "	54
Daniel Johnstone	"	"	15th " "	55
Alexander Livingstone	"	"	15th " "	56
John Armstrong	"	"	15th " "	57
Lawrence Pitkeithley	"	"	24th " "	58
Edward Foster	"	"	24th " "	59
John David Stuart	1st class	"	24th " "	25
David Rintoul	2nd class	"	26th " "	60
Charles Robinson	"	"	12th May, "	61
Tom George Johnson	1st class	"	30th " "	41
Robert Brown	"	"	10th June, "	62

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

RETURN of Certificates of Competency that have been issued to Masters and Engineers of River Steamers during the Financial Year 1878-79.

Name of Person.	Rank for which Issued.	Date of Issue.	No. of Certificate.
Daniel Brewer	Master ...	27 July, 1878	3,022
James Niccol	" ...	3 Sept., "	3,023
Henry Stanaway	" ...	4 June, 1879	3,024
Peter Gibson	" ...	4 " "	3,025
James Matthew Thompson	" ...	4 " "	3,026
Edward Galliven	" ...	5 " "	3,027
John Mabbett	" ...	30 " "	3,028
Charles Lillie	Engineer ...	11 July, 1878	1,298
Thomas Summerton	" ...	26 " "	1,299
Henderson Wilson	" ...	30 " "	1,300
John Willis	" ...	17 Aug., "	1,301
George McLean	" ...	3 Oct., "	1,302
James Burrell	" ...	22 " "	1,303
Albert West Sedcole	" ...	22 " "	1,304
William Carnie	" ...	4 June, 1879	1,305
Thomas Grundy	" ...	4 " "	1,306
William Low Niddrie	" ...	4 " "	1,307
Edward Martin	" ...	4 " "	1,308
William Stewart	" ...	16 " "	1,309

STATEMENT showing the Expenditure on New Lighthouses out of Immigration and Public Works Loan during the Financial Year 1878-79.

Nature of Expenditure.	Amount.
	£ s. d.
Puysegur Point Lighthouse	239 14 8
Moko Hinau "	36 10 0
Cape Maria van Diemen Lighthouse	1,456 15 2
Centre Island "	161 13 10
Moeraki "	78 14 10
Akaroa Head "	3,107 11 6
Cape Saunders "	3,645 13 9
Timaru "	47 0 0
Hokitika "	578 9 8
Contingencies	214 16 3
Total	£9,566 19 8

STATEMENT showing the Amount collected during the Financial Year 1878-79 as Fees under the Steam Navigation Acts, the Merchant Ships Officers' Examination Act, and the Shipping and Seamen's Act, and from the Sale of Charts, &c.

Nature of Receipts.	Amount.
	£ s. d.
Fees under Acts above-mentioned	1,470 16 3
Fees under Fish Protection Act	113 0 0
Port Chalmers Graving Dock Dues... ..	2,592 4 1
Sale of Charts, and New Zealand Pilots	75 5 0
Total	£4,251 5 4

STATEMENT showing the Amount of Pilotage, Port Charges, &c., collected in New Zealand during the Financial Year ended 30th June, 1879.

Port at which Collected.	Pilotage.		Port Charges, &c.		Total.	
	£	s. d.	£	s. d.	£	s. d.
Auckland	1,190	3 10	129	12 2	1,319	16 0
Onehunga	159	9 10	153	19 3	313	9 1
Kaipara	488	5 9	286	12 5	774	18 2
Thames	45	4 9	69	4 2	114	8 11
Russell	114	6 7	2	16 8	117	3 3
Mongonui	...	...	9	11 0	9	11 0
Hokianga	83	8 4	...	...	83	8 4
Tauranga	127	10 6	1	6 10	128	17 4
Poverty Bay	146	12 9	...	...	146	12 9
New Plymouth	100	2 7	66	2 10	166	5 5
Wanganui	323	9 7	1	5 6	324	15 1
Rangitikei	7	7 8	...	...	7	7 8
Foxton	93	2 0	...	...	93	2 0
Patea	25	11 10	...	...	25	11 10
Wairoa	67	11 6	...	...	67	11 6
Wellington	1,792	14 7	1,686	15 4	3,479	9 11
Napier	924	4 10	272	9 0	1,196	13 10
Nelson	622	18 10	1	18 0	624	16 10
Hokitika	33	7 2	...	...	33	7 2
Lyttelton	4,195	17 1	3,021	7 4	7,217	4 5
Timaru	...	...	33	4 2	33	4 2
Oamaru	...	...	554	1 11	554	1 11
Kakanui	...	...	11	4 4	11	4 4
Dunedin	2,389	13 11	1,087	6 2	3,477	0 1
Moeraki	...	...	10	15 8	10	15 8
Waikouaiti	...	...	1	9 0	1	9 0
Port Molyneux	...	...	1	0 0	1	0 0
Invercargill	...	...	85	7 11	85	7 11
Bluff	874	19 4	403	5 3	1,278	4 7
Riverton	44	6 8	2	2 0	46	8 8
Totals for 1878-79	£13,850	9 11	£7,892	16 11	£21,743	6 10
Totals for 1877-78	£13,078	11 9	£5,873	4 5	£18,951	16 2

RETURN of Pilotage Exemption Certificates issued during the Financial Year 1878-79.

No. of Certificate.	Names of Masters to whom Certificates have been issued.	Name of Vessels for which Certificates have been issued.	Port included in Certificate.
437	Ole Helgeson	Rosannah Rose	Dunedin.
438	John McClellan	Flirt	Auckland, Russell.
439	John Grubb	Isabella	Wellington.
440	Thomas Ayres	Omaha	Auckland.
441	John Rose	Vindex	Lyttelton.
442	William Burk	East Lothian	Dunedin.
443	William Smith	Mary Bannatyne	Hokitika, Greymouth, Lyttelton.
444	William Manley	Carlotta	Wellington.
445	William Cromarty	Beautiful Star	Dunedin.
446	John Price	Nightingale	Lyttelton and Kaipara.
447	John Harrison	Boderick Dhu	Auckland.
448	Martin Valentine	Mary Miller	Lyttelton.
449	Francis George Garrard	Lady Bird	Wellington.
450	John Scott	Jessie McDonald	Wellington.
451	Edward Rayner	Carlotta	Wellington.
452	Patrick McConville	Sea Bird	Kaipara.
453	James Smith	Sarah and Mary	Bluff Harbour, Lyttelton.
454	Otto Herman Arndt	Eliza Mary	Manukau, Dunedin, Bluff Harbour.
455	James Story Brownell	Princess Alice	Lyttelton.
456	William Giddes	Letterfourie	Lyttelton.
457	William Andrew Smith	Sarah and Mary	Lyttelton and Wellington.
458	Charles Herbert Lovett	Bells	Lyttelton.

N.B.—Pilotage exemption certificates have not been issued by the Marine Department since the 1st of January last, compulsory pilotage at the ports under the control of the department having been abolished on that date.

RETURN of Wrecks on which Inquiries have been held between the 1st July, 1878, and the 30th June, 1879.

Date of Casualty.	Name of Vessel; also, Age and Class.	Rig.	No. of Persons on Board.	Number of		Nature of Cargo.	Nature of Casualty.	Number of Lives Lost.	Place where Casualty happened.	Wind.		Finding of Court of Inquiry.	Name of Master.
				Crew.	Passengers.					Direction.	Force.		
1878													
April 30	Bertha, 5 years	Cutter	15	7	...	None	Stranded; total loss	Unknown	Savaii, Samoan Group	...	...	Casualty caused by carelessness and incompetency of master, who holds no certificate	Manuel Joseph Silva.
July 4	Victoria, 13 years	"	22	4	...	Ballast	Foundered; total loss	...	About half distance between Rarigoto and Tiritiri, in about mid-channel	S.E. to N.W.	Squally		
"	Jane,	"	25	3	...	Sleepers	Loss of life	1	Between Coal and Nugget Points	W.	Severe gale	Loss of life caused by boom jibbing and carrying man overboard	Daniel Keys.
"	Merlin, 8 years	Schooner	41	3	...	Ballast	Loss of life	2	On Kaipara Bar	S.W.	Strong gale	Casualty caused by sea breaking on board when crossing bar	Alexander Craig.
"	Result, p.s., 6 years	"	13	4	4	General	Stranded; partial loss	...	About 300 yards to the south of Karamea River	N.N.W.	Strong breeze	Casualty caused by beacon lights not being seen, and vessel being allowed to get into broken water while looking for them	Samuel Riley.
"	Ellerton, 1 year	"	87	6	...	Railway engines and iron	Stranded; partial loss	...	South Spit, near entrance to Wanganui River	W.S.W.	Fresh	Casualty caused by master anchoring vessel with only one anchor and insufficient cable, and not letting go another anchor when he found the weather getting bad, vessel being at the time near shore; also master took no means to ascertain his true position. Vessel dragged some distance during his watch without his knowledge. Master's certificate suspended for six months	Daniel Reavy.
"	Maiden City, 6 years	"	27	2	...	Railway iron	Stranded; total loss	...	One mile north of Wanganui Signal Station	S.W.	Light breeze	Vessel lost through leakage caused by stress of weather, being in an unseaworthy condition, having no signals on board, and master proceeding to sea with only one man on board beside himself. Master ordered to pay costs of inquiry	Augustus Skillen.
"	Mullogh, s.s., 23 years	Ketch	46	5	...	General	Stranded; partial loss	...	North Spit of the Hokitika River, N.Z.	...	Light breeze	Casualty caused by side-rod of engine breaking when vessel was crossing bar	Severio Vernazoni.
"	Wave, 13 years	Cutter	20	2	...	Grain	Stranded; partial loss	...	East bank of the Kaituna River, Maketu, Bay of Plenty, N.Z.	Calm	...	Casualty caused by wind suddenly dropping	William Cinnamon.
"	Owake Belle, 1 year	Ketch	35	3	...	General	Stranded; partial loss	...	Rock in New River, N.Z.	N.E.	Light breeze	Casualty caused by wind suddenly falling when vessel near the rocks	James Philips.
Aug. 4	Reliance, 3 years	"	65	5	...	Ballast	Stranded; total loss	...	Ten miles to north of Waikato Heads	W.S.W.	Gale	Casualty caused by stress of weather, driving vessel ashore	Thomas Swede.
"	Venus, 1 year	"	38	3	...	Timber	Stranded; partial loss	...	First rocky point to eastward of Wanganui Roadstead, Mahie, Hawke's Bay	N.	Strong breeze	Casualty caused by vessel not being got under weigh soon enough	John King.

Aug. 14	Raymond, 20 years	400	10	...	Coals	Collision with sunken wreck at sea; partial stranded; total loss	...	About four miles E.N.E. of Cape Campbell Lighthouse	N.W.	Moderate breeze	Vessel struck a moveable substance, sup- posed to be a sunken wreck	Robert Evans.
" 15	Merlin, 12 years	41	4	...	Potatoes	Stranded; total loss	...	S.E. side of Stephens' Island	...	Calm	Casualty caused by wind suddenly falling and strong current and swell setting vessel on to the rocks	Alexander Craig.
" "	Kauma, 11 years	39	7	...	Cattle and sheep, and butter	Supposed foundered; total loss	Supposed 7	Head, Raglan	Unknown	Light breeze	Vessel left Waitara for Onechunga on 14th August, and not since heard of	Frank Maule.
" 16	Oprey, p.s., 10 years	28	3	...	Ballast	Stranded; partial loss	...	Within the North Head of Porirua Harbour	N.W.	Light breeze	Plate started, and vessel run ashore to save her from foundering	John Symons.
" 16	Lebu, 10 years	726	22	14	General	Loss of life	1	Lat. 40° 57' S., long. 59° 8' E.	S.W.	Heavy	Casualty caused by sea coming on board and throwing captain against the winch	Henry Govan McKenzie.
" 19	Bella Mary, 16 years	276	11	...	General, Tasmanian produce	"	1	Lat. 40° 25' S., long. 156° E.	W.	Hurricane	Boatswain washed overboard through bad weather	John Fisher.
" 19	Argus, 24 years	36	3	...	Timber	Stranded; partial loss	...	N.E. side of Kapiti Island	W.S.W.	Baffling	Vessel drifted on to rock owing to baffling winds	John Hay.
" 29	Kate McGregor (supposed Taupo)	65	6	...	Colonial produce	Collision; slight damage	...	About half-way be- tween Rangitoto reef and the North Head of Auckland Har- bour	N.N.E.	Light breeze	...	Colin McDonald.
" 29	Owake, 4 years	63	5	...	Grain	Stranded; partial loss	...	Waitara River, Rail- way Wharf	N.W.	Gale	In coming up to the wharf the anchor got foul, which caused the vessel to run into the bridge, and on to a snag	Otto Hermann Arnold.
" 30	Lake Superior, 3½ years	48	4	...	Timber	Stranded; total loss	...	Pakiri, North-West Coast	N.	...	Warp carried away ...	Charles Henry Holder.
Sept. 1	Lapwing, 2 years	231	9	...	Grain, flour, and coal	Stranded; partial loss	...	On beach, little to northward of Town of Timaru	E.S.E.	Gentle breeze	Vessel driven on shore by a heavy sea, there not being sufficient wind to enable her to work to sea	William Ander- son.
" 1	Melrose, 20 years	287	10	...	Coal	Stranded; total loss	1	On the beach about a mile to northward of Town of Timaru	E.	Light breeze	After the cable parted in a heavy sea, the lash of the spring jammed the cable in the hawse-pipe, and there was not sufficient time to clear it before the vessel grounded, the crew at the time being employed in saving the lives of the crew of the "Palmerston." There was not sufficient evidence to form an opinion of the state of the vessel's hull	George Kenny.
" 1	Glimpe, 14 years	38	4	...	780 cases preserved meat	Stranded; partial loss	...	On the beach about half mile to north- ward of Town of Timaru	E.S.E.	Light breeze	Vessel driven on shore by a heavy sea, there not being sufficient wind to enable her to work to sea	John Wares.
" 1	Fanny, 6 years	25	3	...	None	Stranded; total loss	...	About 200 yards to northward of Go- vernment landing service, Timaru	E.S.E.	Light breeze	Vessel driven on shore by a heavy sea, there not being sufficient wind to enable her to work to sea	Peter Brown.
" 3	Mary Bannatyne, 8 years	116	7	...	Produce	Stranded; partial loss	...	North Spit of Hokitika River, County of Westland	N.W.	Fresh breeze	Vessel struck on the bar on account of the tow rope becoming slack	William Smith.

RETURN of Wrecks on which Inquiries have been held, &c.—continued.

Date of Casualty.	Name of Vessel; also, Age and Class when known.	Reg.	Registered Tonnage	Number of		Nature of Cargo.	Nature of Casualty.	Number of Lives Lost.	Place where Casualty happened.	Wind.		Finding of Court of Inquiry.	Name of Master.
				Crew.	Passengers.					Direction.	Force.		
1878.													
Sept. 5	Huon Belle, 14 years	Ketch	42	3	Ballast	Stranded; partial loss	...	Four miles north of Manawatu River	S.S.W.	Whole gale	Master had to run vessel ashore to save life	Edward Kerns.	
" 10	Huon Belle, 14 years	Ketch	42	3	Ballast	Stranded; partial loss	...	North Spit, Patea River	S.	Moderate gale	...	Edward Kerns.	
" 15	Orti, s.s., 1 year	Schooner	117	3	General	Stranded; partial loss	...	Below Bushy Point, New River	S.W.	Moderate breeze	Grounded on bank in the river. Master thought he was nearer the centre of the channel than he was	Thomas Cook Baydon.	
" 16	Clifton, 9 years, A1 Lloyd's	Barque	380	12	Ballast	Stranded; partial loss	...	Triangle Rock, Bluff Harbour	E.	Light breeze	Vessel grounded through dropping up a narrow channel with strong tide-way and narrow wind	Robert Shaw.	
" 19	Ino, s.s., 4 years	Foreand aft	28	5	Grain	Stranded; total loss	...	End of South Pier, Kakanui	...	Calm	Anchor of the "Ino" caught in a rope stretched from the "Prince Rupert" to the pier, which caused her to strike against the South Pier, which cut her from covering board to bilge	James Anderson.	
Oct. 4	Wanganui, 4 years	Schooner	78	5	General	Stranded; partial loss	...	On beach, about 3 miles north of Oamaru	S.S.E.	Fresh breeze	Casualty caused by negligence of master in not using patent log and other means of ascertaining his position. Master's New Zealand certificate of service, No. 2,027, suspended for four months	John Blaney.	
" 5	King Oscar, 32 years	Barque	248	10	Ballast	Stranded; slight damage	...	Tory Shoal, Kaipara Heads	S.W.	Strong breeze	Casualty caused by error of judgment of Master	Archibald Black.	
" 9	Kennedy, s.s., 14 years	Schooner	136	17	Coal	Stranded; slight damage	...	Bar of Grey River ...	N.E.	Light	Vessel struck on a sharp rock which is supposed to have washed from the protective works	Abraham Palmer.	
" 10	J. G. Coleson, 12 years	"	70	7	"	Stranded; total loss	...	Rocky Island at Cape Stephens	N.W.	Moderate gale	Vessel lost through bad and thick weather, and master miscalculating distance run. Master in no way to blame	James Story Brownell.	
" 13	Felixstowe, 5 years	Barque	379	12	"	"	4	On beach near Otaki	W. by N.	Light breeze	Vessel lost through thick weather, and master mistaking Kapiti for Stephens' Island. Master and mate drowned, consequently no evidence to show if blame attached to either	James Stuart Piggot.	
" 16	Wild Ware, 6 years	Schooner	39	3	Grain and potatoes	Stranded; partial loss	...	Constan Bay, Charleston	N.W.	...	Heavy sea came into the bay, and caused the vessel to break her moorings	John Grubb.	
" 22	Star of the Sea, 5 years	"	38	4	General	Loss of life	1	Off Cape Lambert ...	N.W.	Fresh gale	Master lost overboard	Antonio Rosa.	
" 22	City of Auckland, 19 years	Ship	780	33	"	Stranded; total loss	...	Beach about 150 yards from Otaki River	N.W.	"	Master made mistake in taking the mileage scale from longitude instead of latitude	George Ralls.	
" 27	Magpie Robertson, 6 1/2 years	Schooner	16	3	Manganese ore	Foundered; total loss	...	Off Wellington Head, Great Barrier Island	S.E.	Half gale	Vessel sprung a leak, and sunk before she could be run ashore	William George Crossley.	

Oct. 29	Elizabeth, 12 years	Ketch	33	3	...	Timber	Stranded; partial loss	...	Between Long Point and Rangitira Point, Kapiti Island Tokampuhia Reef, near Tologa Bay	W.	Fresh breeze	Vessel leaked to such an extent through being strained in bad weather that she had to be run on shore	Robert Hamilton.
Nov. 2	Tarpo, s.s., 3 years	Schooner	461	34	55	General	Stranded; partial loss	...		W.	Light	Master and chief officer to blame, for not taking sufficient precaution to in- sure the vessel being a safe distance from the land. Certificates suspended for six months. Second officer reprimanded for neglecting to call the captain when he altered the course. The decision of the Court was not confirmed by the Governor, and the certificates were re- turned to the officers	Henry Joseph Calkin Andrew.
" 9	Carlotta, 22 years	Barque	310	10	2	Coal	Stranded; total loss	...	Rocks at point of Pen- carrow Head, Wel- lington Harbour	N.W.	Storm	Vessel lost through missing stays through a shift of wind when tacking, and her cable parting in a squall. No blame attributable to master.	Edward Rayner.
" 9	Margaret, 20 years	Ketch	21	2	...	Timber	Loss of life	1	10 miles off Pillar Rock, Bank's Penin- sula	N.W.	Storm	Master knocked overboard by boom	Henry Arthur Rutter.
" 15	Saucy Kate, 3 years	Schooner	41	3	...	"	"	1	15 to 25 miles S.E. of Cape Palliser	N.W.	Moderate gale	Sea broke on board and washed John Bloomarie overboard	George McKenzie.
" 16	Talisman, 9 months	"	79	7	2	General Island produce	Stranded; total loss	...	Island of Aitutoki, Hervey Group	E.	Moderate	Stress of weather	George Henry Trayte.
" 28	Hauraki, p.s., 4 8-12 years	"	73	11	4	Cattle and general	Stranded; partial loss	...	Mouth of Waitara River	N.	Moderate breeze	Stranding caused by breaking of rudder stock	Henry Wvyl Dale.
" 29	Taranaki, s.s., 13 years	"	327	32	73	General	Stranded; total loss	...	Karewaha Island, off Tauranga Harbour	N.	Light	Error of compass, misconception of dis- tance run, and master neglecting to take soundings, the weather being foggy. Master ordered to pay costs of inquiry.	James Malcolm.
" 29	Southminster, 2 years	Ship	1,249	24	1	General	Stranded; total loss	...	Rocks about 5 miles S. of Cape Campbell, on East Coast of Middle Island	E.	Light and variable	Existence of strong flood tide, of which master had no knowledge. After vessel stranded, greater efforts might have been made to save properly	Charles McFee.
Dec. 3	Forest Queen, 6½ years	Schooner	51	4	...	Railway plant	Loss of life	1	At wreck of "Hyder- abad," near Otaiki	...	...	By boat capsizing	Charles Watchlin.
" 8	Iona, 3½ years	"	78	6	1	General	Stranded; partial loss	...	About 15 or 20 yards S.E. of Peak Rock, at entrance to Tory Channel	N.W.	Fresh breeze	Keeping too close in shore, and not making allowance for current	John Grundy.
" 11	Mary King, 13 years	Brigantine	73	6	...	Ballast	Stranded; partial loss	...	Inside Pinnacle Rock, entrance to Tory Channel	N.W.	Light air	Baffling wind and strong tide caused vessel to lose all storage way	Thomas Bailey.
" 27	Mabel Jane, 6 years	Schooner	38	4	...	General	Stranded; total loss	...	On the sea beach about 100 yards N. of River Waunganui, County of West- land	N.W.	Whole gale	Vessel had to be beached to save life, owing to heavy gale	John Graham.
" 28	Blanche, 11 years, A1 13 years	"	63	8	5	General	Stranded; total loss	...	Reef off Penrhyn Island, South Pacific Ocean	N.N.W.	Fresh breeze	Taking channel too soon	Robert Barr.

RETURN of Wrecks on which Inquiries have been held, &c.—continued.

Date of Casualty.	Name of Vessel; also, Age and Class.	Rig.	Tons registered.	Number of		Nature of Cargo.	Nature of Casualty.	Number of Lives Lost.	Place where Casualty happened.	Wind.		Finding of Court of Inquiry.	Name of Master.
				Crew.	Passengers.					Direction.	Force.		
1879. Jan. 5	Arthur Wakefield, 5 years	Schooner	45	4	...	General	Stranded; partial loss	...	Close to Signal Station, entrance to Wanganui River	E.S.E.	Fair	Taking bar with insufficient water, having been signalled to do so	William Andrews.
" 14	Lizzie Guy, 8 years	Brigantine	85	7	...	Claff and bran	Stranded; partial loss	...	About 2 miles S. of Buller River	W.N.W.	Fresh gale	Vessel driven ashore by force of gale	James Stevens.
" 14	Forest Queen, 6½ years	Schooner	51	4	...	Railway plant	Stranded; partial loss	...	On beach at Herowhenua, near Otaki	W.N.W.	Whole gale	Towline parted in a heavy gale	Charles Watchlin.
" 15	Mary Bannatyne, 8 years	Brigantine	116	7	19	Timber	Loss of life	1	15 miles due W. from Stephens' Island	E.S.E.	Gentle breeze	Man fell overboard	William Smith.
" 26	Rose of Eden, 11 years	Schooner	30	3	...	Ballast	Stranded; total loss	...	On Peak Rock, at entrance to Tory Channel	N.W.	Moderate breeze	Struck on Peak Rock through wind failing, and afterwards sank	John Botham.
Feb. 2	Clyde, 4 years	"	103	7	...	...	Stranded; total loss	...	Timutu, Ninety-Mile Beach, 15 miles from Banks' Peninsula	...	Calm	Strong northerly set of current, and wind failing	John Bishop.
" 18	Taupo, s.s., 3½ years	"	461	34	80	General, and coals	Stranded; total loss	...	Near Stony Point, Tauranga	Variable	Light	Accident was owing to negligent navigation on the part of the master of the "Taupo." Certificate suspended for three months, and ordered to pay costs	William Cro-mary.
" 25	Patea, s.s., 1 month	Schooner	51	11	...	...	Loss of life	1	Twenty miles from Kapiti	W.	Strong	Mate lost overboard	William John Gibbons
Mar. 10	Geelong, p.s., 24 years	"	108	7	6	Ballast	Stranded; total loss	2	Inside inner bank of Whangape Heads	S.S.E.	Light breeze	Heavy sea struck vessel when close to the bank, and caused her to refuse to obey the helm	Edward Keane.
" 20	Cynthia, 7 years	"	56	5	...	"	Stranded; total loss	...	Domoghue's Creek, two miles south of Ross, Westland	S.W.	Strong breeze	Vessel having sprung a leak, and pumps having got choked, she had to be run ashore to save life	Thomas Swede.
" 20	Unity, 6 years	Ketch	44	4	1	Flour and grain	Stranded; total loss	...	On the North Reef, Cape Campbell	S.S.W.	Strong gale	Master committed error in judgment in hauling-up too soon after passing the North Reef	William Thompson.
" 20	Glencel, s.s., 6 months	Schooner	156	15	15	General	Loss of life	1	Two miles south of Cape Reinga	...	...	Boat swamped; one man drowned ...	William Rodick.
" 22	Iona, s.s., 4 years	"	159	15	30	Kauri gum	Collision; slight damage	...	Off Railway Pier, Auckland Harbour	S.E.	Light	"Linda Weber" not having proper light burning, and keeping no watch	William Farquhar.
" 22	Linda Weber, 1½ years	Brigantine	114	7	...	Grain	Loss of life	...	...	...	...	...	John McKenzie.
" 30	Wave Queen, 18 years	Barque	853	4	...	General	Loss of life	1*	Lat. 44° 37' S., long. 152° 54' E.	S.W.	Heavy gale	Mate jumped overboard and was drowned	George Perriam.
April 10	Herald, 12 years	Schooner	53	4	...	Wood	"	1	Off Wellington Head	N.E.	Fresh breeze	One of crew fell overboard when shaking out reef of mainsail	Donald McKay.
" 13	Start, 6 years	Cutter	27	3	3	Timber	Stranded; partial loss	...	South Banks, entrance to Ngunguru River	N.	Moderate	Sea put vessel on bank ...	Kenneth McDonald.
" 23	Ruby, 19 years	Schooner	25	3	3	Bricks	Stranded; total loss	...	Walker Rock, off Jackson's Head	S.E.	Light	Wind fell light, and strong flood tide set vessel on to rocks	Charles Frederick Backstrom.

RETURN of Wrecks on which Inquiries have been held, &c.—continued.

Date of Casualty.	Name of Vessel; also, Age and Class when known.	Rig.	Tonnage.	Number of		Nature of Cargo.	Nature of Casualty.	Number of Lives Lost.	Place where Casualty happened.	Wind.		Finding of Court of Inquiry.	Name of Master.
				Crew.	Passengers.					Direction.	Force.		
1879. June 28	B.L., 10 years	French barque	364	12	..	Grain	Stranded; total loss	..	5½ miles North of New Brighton, Canterbury	E.S.E.	Strong gale	Casualty caused by dense fog and heavy sea, and master not having been able to take observations for four days previously	François Savary.
"	Swallow, 5 years	Three- masted brigantine	298	9	..	Ballast	Stranded; total loss	..	Off rocks at East Head, entrance to Tory Channel, Cook Strait	S.E.	Light	Casualty caused by gross neglect of master in not sufficiently studying the tides or heaving the vessel to, the weather being thick. Master's certificate, N.S.W., 205, suspended for three months, and master ordered to pay costs of inquiry	George Frederick Davies.
"	Pelican, 5 years	Schooner	69	5	..	Oats	Stranded; partial loss	..	Ninety-Mile Beach, about 13 miles from North Tamar Flagstaff	S.W.	Light	Heavy sea carried vessel on beach, as the bowsprit having been lost the head sails could not be set	John Munro.
"	Albar, 16 years	Brigantine	204	9	2	Coal	Stranded; total loss	5	Two and a half miles North of Tamar Flagstaff	S.E.	Strong gale	Vessel driven ashore by the force of the gale, which came on unexpectedly; only blame attributable to any one on board is for not having the springs judiciously put on, and not being supplied with signals	John Watt.
"	Prairie, 34 years	Brig	139	8	..	Timber	Stranded; partial loss	..	Entrance to Whangaroa Harbour	..	..	Wind taking vessel aback and then falling	Edward Carphey.

The MARINE ENGINEER to the SECRETARY, Marine Department.

SIR,—

Marine Office, Wellington, 30th June, 1879.

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 during the year, viz. :—

Centre Island, Foveaux Strait.—This light was first exhibited on the 16th September, 1878. It is of the first order, fixed; with red arcs thrown over the inshore dangers.

Timaru Harbour Light.—This light was first exhibited on the 1st July, 1878. It is a fixed white light of the fifth order, visible in clear weather at a distance of $14\frac{1}{2}$ miles. This light is maintained by the Timaru Harbour Board.

Hokitika Harbour Light.—The tower is now about ready for the reception of the lantern and apparatus, which have been sent to Hokitika for the purpose of being erected. This work will not take many weeks to complete, and I hope to be able to report very soon that the light is ready to be exhibited. This light, being a local light, will be maintained by the Hokitika Harbour Board.

Cape Maria.—The whole of the works at this place have been satisfactorily completed, and the light was first exhibited on the 24th March, 1879. It is of the first order, revolving once a minute. From the lower part of the tower a fixed red light is shown in the direction of Columbia Reef.

Akaroa.—The works here are in a forward state. The construction of the road from the landing-place was a heavy piece of work, very much of it in hard solid rock. A good landing-place and lifting apparatus have been prepared, which have much facilitated the landing of material. In connection with this work I regret to have to report the death of the overseer in charge of it, Mr. William Black, who was found dead on the ranges between the lighthouse and the Town of Akaroa on the 30th March last. The work suffered little or no delay, as another overseer was despatched and placed in charge almost immediately.

Cape Saunders.—The necessary land has been acquired for this lighthouse, and a strong working party is now erecting the buildings, for which all the materials have been landed. Good progress is being made, and it is expected that the buildings will all be completed by middle of September.

Mokohinau, Hauraki Gulf.—The land necessary for this was taken under "The Public Works Act, 1876," and preparations were made to begin the work, when instructions were received that the work should be suspended until further orders.

I have during the year visited the following lighthouses and intended sites for lighthouses :—

1879.

Jan. 8. Stephens' Island.

Jan. 9. Kapiti Island.

Feb. 25. Akaroa.

Feb. 28. Timaru.

June 2. Stephens'

June 2. Cape Farewell Spit.

Although I have twice visited Stephens' Island I have been unable to make a proper examination; it is very rough and precipitous, and cannot be ascended and examined without previously cutting a road. This has been accomplished by a party of men sent for the purpose, and I propose to make an early visit to inspect the site, when a report will be made on it, as well as on Kapiti, which offers good facilities for the erection of a lighthouse

I have, &c.,

JOHN BLACKETT,
Marine Engineer.

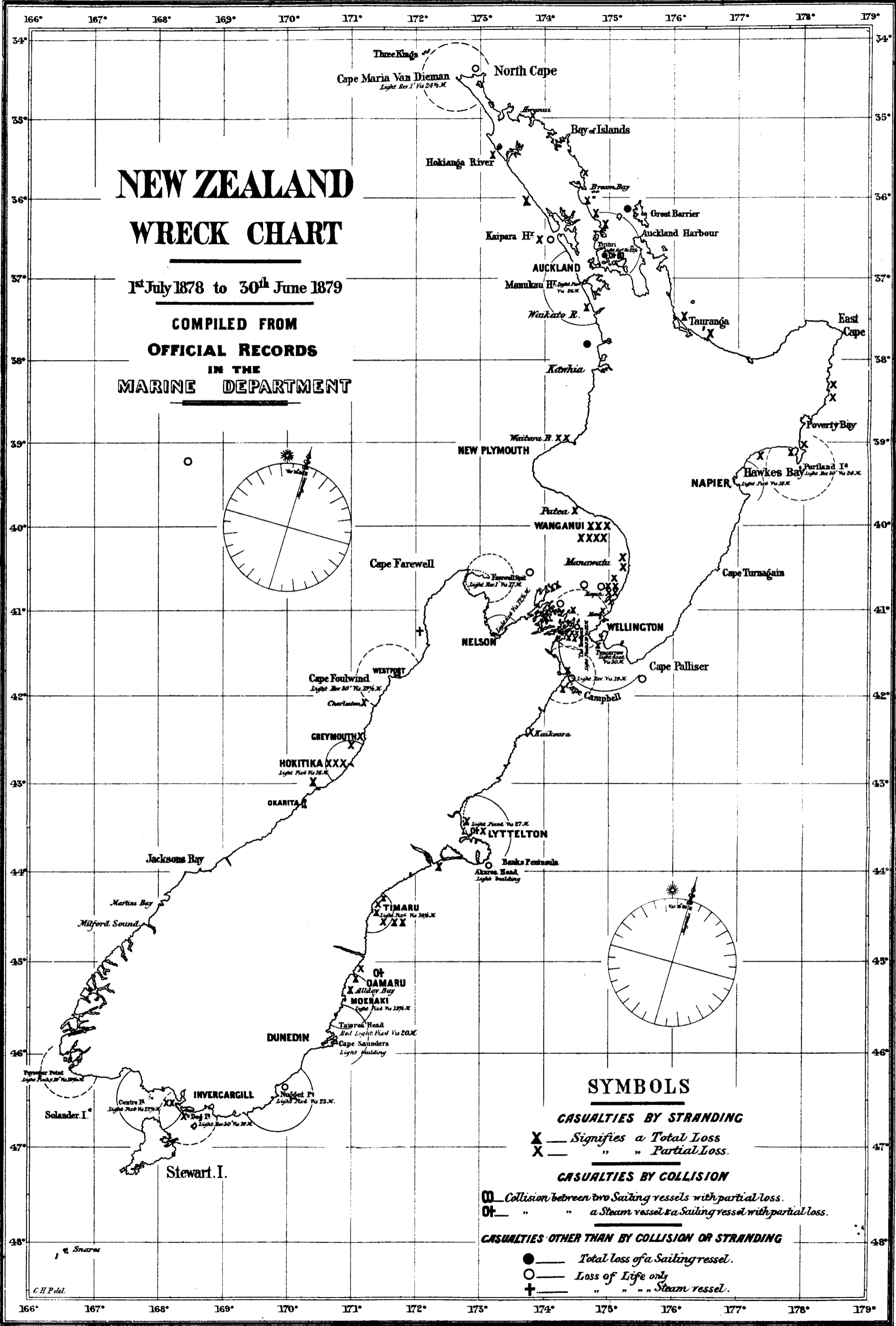
The Secretary, Marine Department.

BAuthority: GEORGE DIDSBURY, Government Printer, Wellington.—1879.

NEW ZEALAND WRECK CHART

1st July 1878 to 30th June 1879

COMPILED FROM
OFFICIAL RECORDS
IN THE
MARINE DEPARTMENT



SYMBOLS

CASUALTIES BY STRANDING

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

CASUALTIES BY COLLISION

- O — Collision between two Sailing vessels with partial loss.
- O — " " a Steam vessel & a Sailing vessel with partial loss.

CASUALTIES OTHER THAN BY COLLISION OR STRANDING

- — Total loss of a Sailing vessel.
- — Loss of Life only
- + — " " " " Steam vessel.

