1877. ZEALAND. $N \to W$

DEPARTMENT MARINE

(ANNUAL REPORT OF THE).

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

Office of the Commissioner of Customs, Wellington, 4th September, 1878. My Lord,-

I do myself the honor to transmit herewith, for your Lordship's information, the Report of the Marine Department of this colony, for the financial year ended the 30th June I have, &c.,

To His Excellency the Most Honorable the Marquis of Normanby, K.C.M.G., &c., Governor of New Zealand.

G. GREY, Commissioner of Customs.

REPORT.

Marine Department, Wellington, 2nd September, 1878. SIR,-I have the honor to submit the following report on the working of the Marine Depart-

ment for the year ended 30th June last:-

The Government having decided to separate the Marine from the Customs Department, I was appointed Officer in Charge, and I assumed the duties of the office on the 9th April. A good deal of the local work of the Department is, however, done by the Collectors of Customs at the various ports, and I desire to thank those officers for the cordial manner in which they have carried out the instructions conveyed to them.

Lighthouses .- During the year the following lights have been exhibited for the first time, viz.:—Brothers on 24th September, Portland Island on 10th February, and Moeraki on 22nd April. The Brothers is a flashing white light of the second order dioptric, showing a flash every April. The Brothers is a flashing white light of the second order dioptric, showing a flash every ten seconds, and there is a fixed red light in the lower part of the tower, which is seen from the direction of Cook's Rock. Portland Island is a revolving white light of the second order dioptric, attaining its greatest brilliancy every thirty seconds; here, too, there is a fixed red light in the lower part of the tower, which is seen from the direction of Bull Rock. Moeraki Light is a fixed white light of the third order dioptric. On the same night that the Brothers Light was first exhibited, the light on Mana Island was discontinued. It is proposed to use the Mana apparatus and tower for the Cape Egmont Light, and steps will be taken to move them to that place as soon as a site can be obtained from the Natives.

The local light at Timaru was finished towards the end of June, and was lighted on the 1st

July last. This light is under the control of the Timaru Harbour Board.

It is anticipated that the Centre Island Light will be lighted in September, and the lights at Puysegur Point and Cape Maria Van Diemen in December or January next. Apparatus for a new local light at Hokitika, for which gas is to be used, has been ordered from England, but advice of its shipment has not yet been received. The lamps at Nelson, Godley Head, and Soames Island have been altered so as to burn paraffin, and, it being found that the mechanical lamps at Nugget Point were not so suitable for burning paraffin as the ordinary fountain lamps, a set of these latter has been ordered from Great Britain for that place.

Works in connection with the lighthouse to be built at Akaroa Head have been commenced, and it is believed that the tower and necessary buildings will be finished during the summer.

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.

The harbour lights at several of our ports are not of sufficient power, and it is supposed that this is due to faultiness in the lamps and reflectors used. Three of the small port lights manufactured by Messrs. Chance Brothers and Co., of Birmingham, have been ordered as an

1—H. 12.

experiment. These should give a much better light than those commonly in use, whilst they will burn little, if any, more oil. Should they prove a success, I would recommend that a few of them should be imported, to be sold at cost price to any Harbour Boards that may require them. Two of these lights might also be very advantageously used for lighting the entrance to Tory Channel, where leading lights are much required.

Owing to the increased number of lighthouses, the duty of supplying them with oil and stores is constantly becoming more onerous. In connection with this fact, I desire to indorse the remarks made in previous reports by the Secretary of Customs as to the necessity for a store for the Marine Department. At present there is only a very small store in the Customhouse yard: it is quite full, and there is no place for storing spare articles for lighthouse use, or the spare gear belonging to the Government steamers. It is urgently necessary, therefore, that, as soon as the Thorndon Reclamation is finished, the site allocated for a store for this department should be handed over, and the necessary buildings be at once erected. The cost of the store

will be recouped in a very few years by the saving it will make possible.

The following accidents have occurred during the year in connection with lighthouse works:—At Puysegur Point, on the 16th September, two of the contractor's men went in a small boat to try to cross Otago Retreat to Coal Island, where it was believed a fire was burning, which was presumed to have been lighted by shipwrecked men. It was afterwards found, however, that spray from a waterfall had been mistaken for smoke. At the time the men started it was blowing a heavy gale from seaward, and the boat is supposed to have been capsized, as a portion of her was found washed up on an island. The bodies of the men were not found. At the Brothers, on the 29th August, two men (a keeper and one of the carpenters employed on the works) were being lowered down the tramway, when the rope slipped, and the truck descended at a great speed. The carpenter threw himself off, and was stunned, but not much hurt; while the keeper was thrown over the rocks, and had his thigh broken. The same keeper, in June last, a few days after he had returned to the Brothers cured, fell down the lighthouse stairs, and again broke his thigh. He is now in the Wellington Hospital.

Light Dues.—The light dues collected at the various ports of the colony during the year

amounted to £11,517 19s. 2d., being £482 15s. more than for the previous year.

Government Steamers.—Both the "Hinemoa" and the "Stella" are now under the control of this department. Regulations as to discipline, &c., and for insuring economy with regard to stores, have been brought into force. They also provide that the officers and crew are to wear uniform. The "Stella" has been almost exclusively employed on services connected with the department, such as landing materials for the construction of new and stores for the maintenance of existing lighthouses, placing in position and overhauling buoys and beacons, and executing small surveys. Now that there are lighthouses from the northern extremity of the North Island to the southern extremity of the Middle Island she will be kept almost constantly at lighthouse-service work; but in connection with this the various buoys and beacons under the control of the department can be attended to and small surveys can be made.

Examination of Masters, &c.—Certificates of competency have been issued to 141 candidates, 108 being for masters, mates, and engineers of sea-going vessels, and 33 for masters and engineers

of river steamers.

Steam Navigation.—Passenger certificates have been issued to 109 steamers, of 10,164 tons and 3,937 horse power, being, in the aggregate, 2 steamers and 1,502 tons and 312 horse power

less than were surveyed last year.

Harbours.—Various repairs and improvements have been carried out in connection with several harbours. A new house for the pilot has been built at Foxton; the signalman's house at Manukau Heads has been repaired; the removal of rocks in the Turanganui River (Poverty Bay) has been completed; a contract for the erection of beacon in Kaipara River has been let; and numerous buoys have been placed or renewed.

Wharves.—Advantage has been taken, in several instances, of the powers conferred upon the Governor in Council by "The Marine Act Amendment Act, 1877," to transfer the control of wharves at out-ports to Road Boards or other local authorities, it being believed that better

management will thus be secured.

Surveys.—During the year the entrance to Hokianga Harbour and the bar there have been surveyed. Great changes were found to have taken place since the previous survey. New sailing directions were therefore prepared, and an amended chart of the bar is being prepared. A survey of the Galatea Channel over the Kaipara bar has also been completed, and an amended chart will shortly be issued. The southern channel over the Manukau bar, too, has again been surveyed, but the necessity for publishing a new chart for it is not great, as the signalman on the South Head can always discover the deepest water, and guide vessels through it by means of the shifting beacons and the semaphore. There are still several small surveys on various parts of coast that should be done.

Naval Training School.—The able report of the manager is forwarded herewith. The great difficulties at present in the way of proper management of the school are the want of quarters for the instructors, and the presence of a criminal element amongst the boys. The latter is the more important. If it can be got rid of through the establishment of a reformatory, the Kohimarama School may no doubt be made a success; but at present masters and owners of vessels, knowing what some of the boys have been, hesitate to take any of them as apprentices.

H.—12.

The "Southern Cross" has not been found suitable for an exercising vessel; but, if a small schooner (for the purchase of which a sum is on the estimates) is obtained, so that the boys can be taken on short cruises in Auckland Harbour or the Hauraki Gulf, great good to the school will no doubt result.

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Weather Reporting .- I forward herewith a report by Captain Edwin on the Weather Reporting Office. It was found necessary about the close of the financial year to appoint an officer to assist Captain Edwin. The number of warnings sent during the year has been very great, and, according to the returns, a large percentage proved correct, although many of the warnings did not refer to great or marked changes in the weather. I propose to instruct Harbour Masters at the various ports under the control of this department, and all lightkeepers, to keep simple tidal and meteorological records, which I have no doubt will be valuable aids

towards the more important work of the Weather Reporting Department.

Wrecks and Casualties.—During the year, 61 casualties were reported to this office, 52 of which occurred on or near the coasts of the colony. Of these, 23, affecting vessels of an aggregate of 4,162 tons, were cases of total wreck (in this, however, is included the "Hydrabad," which it is possible may be recovered), while 29, affecting vessels of 3,479 tons in all, were cases of partial loss only. The number of lives lost on or near the coasts of the colony was 20, viz., 5 from the "Lionel," 6 from the "Excelsior," and 4 from the "Clan Alpine" (all hands in these vessels being lost), 2 each from the "Echo" and the "Zion," and 1 from the "Queen Bee." Nine casualties were reported as having occurred beyond the colony, consisting of 6 total wrecks, with an aggregate tonnage of 1,615, 2 partial losses (tonnage 2,588), and 1 case of only loss of life. The total of lives lost in these cases was 12, viz., 7 from the "Hinemoa" (lost with all hands), 2 from the "Emma," and 1 each from the "Bencleuch," "Kedar," and "Kentish Ton" Tar."

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

R. Johnson,

The Hon. the Commissioner of Customs, Wellington.

Officer in Charge.

Enclosure 1.

The Marine Engineer to the Officer in Charge, Marine Department.

Marine Office, Wellington, 30th June, 1878. SIR,-I have the honor to forward, for the information of the Hon. the Commissioner of Customs, the annual report on works executed for new lighthouses during the year, viz. :-

Brothers.—At date of last annual report all the works in connection with this lighthouse

were near completion, and the light was first exhibited on the 24th September, 1877.

Portland Island.—The contract for this work was completed after considerable delay, and the light established on the 10th February, 1878. The description of the light is as follows:—Tower, 28 feet high, of timber, painted white; the light is of the second order revolving white light, visible all round; greatest brilliancy every thirty seconds. It is 300 feet above the level of the sea, and, allowing 15 feet for height of eye, it will be seen 24 nautical miles, in clear weather.

A fixed red light, having an arc of about six degrees, is shown in the direction of the Bull

Rock, from the lower part of the tower.

Centre Island, Foveaux Strait.—The works of this lighthouse have been all satisfactorily completed under contract; the lantern and apparatus have since been fixed, and it is expected that everything will be ready for lighting up about the end of August. The light is of the first order, fixed; with red arcs thrown over the inshore dangers.

Puysegur Point, Preservation Inlet.—The contract works at this lighthouse have also been satisfactorily completed, and the tower is now ready to receive the lantern and apparatus, the

erection of which will be begun in a few days.

Moeraki.—Since my last report all the works have been completed under contract, the lantern and apparatus fixed, and the light exhibited on the 22nd April, 1878. This is a third order fixed white light, visible 19 miles. The site of this lighthouse is on the southern extremity of the Moeraki Peninsula, overlooking the Kargiti Beach.

Timaru Harbour Light .- As reported last year, tenders were called for this work, which consisted of the lighthouse tower and a dwelling for the keeper. A contract was entered into, which, after numerous delays and difficulties, was completed long after the contract time. The lantern and apparatus were then fixed, and the light will be exhibited on the 1st July, 1878. The official description of the light is as follows:—It is a fixed white light of the fifth order; it will be visible from N. 20° W. to S. 20° E. The tower is 30 feet in height. The light is elevated 85 feet above the sea, and will be seen, in clear weather, at a distance of 14½ miles.

Hokitika Harbour Light.—The lantern and apparatus for this have been ordered from Home,

but no advice of their shipment have been received.

Cape Maria.—A working party was sent to this place in August last, and I am now glad to be able to report that all the buildings at this station will be completed about the end of August, and ready for the reception of the lantern and light apparatus. The works here have gone on very steadily, and without hitch of any kind, although the landing-place at times offers serious difficulties in landing materials under certain states of the wind,

Akaroa.—As previously arranged, an overseer and working party were despatched to this place in April last, since which they have been engaged in preparing a landing-place and cutting a roadway, mostly in rock, from it to the site of the lighthouse. Plans have been prepared for the tower and dwellings, and the material for their erection will be despatched as soon as the roads and other works of excavation are complete.

Cape Saunders.—Surveys have been made of the new site, with a view of acquiring the land, but the question of determining the best landing-place has delayed the completion of the plans. This, however, will be decided on on the next southern trip of the "Stella," about the middle of

July, and the plans will then be completed as speedily as possible.

Mokohinau, Hauraki Gulf.—It was hoped that the land required for a site for this light-house would have been acquired before this; but, as no reasonable terms can be arranged with the owner, it will be necessary to take it under "The Public Works Act, 1876," arrangements for doing which are now in hand.

During the year I have visited the following lighthouses, where works were in progress or

contemplated:-

1877. 13th September, Portland Island, to inspect progress of works; 15th December, the same; 25th December, Cape Maria, to inspect progress of works, and to arrange for erection of

permanent tramway, and preparation of landing-place, fixing of crane, &c.

1878. 5th February, Cape Farewell, to inspect generally, but more particularly state of wood framing of the tower, which I found to be satisfactory; 14th March, Moeraki, to inspect progress of works; 18th April, Hokitika, inspected site, and obtained general information.

I have, &c.,

JOHN BLACKETT,

The Officer in Charge, Marine Department.

nent. Marine Engineer.

Enclosure 2.

REPORT ON NAVAL TRAINING SCHOOL, KOHIMARAMA.

The Manager, Naval Training School, Kohimarama, to the Officer in Charge, Marine Department.

Sir,— Naval Training School, Kohimarama, 30th June, 1878.

I have the honor to transmit, for the information of the Hon. the Commissioner of Customs, the following report on the abovenamed institution for the past twelve months.

The health of the boys generally has been very good; there have been but few serious cases, and those mostly resulting from accidents. Full information on these subjects will be found in the report of the Medical Officer, which is attached hereto.

Table A gives the educational progress of the boys, which is, on the whole, I think, satisfactory; the frequent change of schoolmaster has been a considerable drawback, but I trust that the person at present holding the position will be willing to retain it.

In seamanship the progress has not been what I could desire. This I attribute to the want of a suitable vessel for training the boys; but, despite this drawback, some of them have made con-

siderable progress.

Table C gives the list of clothing made and other work done in the school, under the efficient instruction given by Mrs. Speight; the boys generally continue to improve in sewing. During the last six months cap-making has been undertaken; so that, with the exception of boots and socks, every article of clothing is now manufactured in the school.

Twenty-nine boys have been admitted and thirty-seven discharged, leaving seventy-one now

on the register, of which number two are out on license (see table D).

Table B contains the record of visits paid by clergymen for holding Divine service and

imparting religious instruction.

The conduct of the boys has not been so satisfactory as I could wish. This is, in my opinion, mainly attributable to the presence of a few very bad characters, who, to a great extent, give the tone to the others. Both sections 9 and 10 of the Act have contributed their quota of these: the former of these sections is in many instances too liberally interpreted (see table E), but it is also a fact that some of the worst-behaved and most irreclaimable boys have been sent here under the provisions of section 10, whilst it is particularly noticeable that section 8, under which eleven twenty-fifths of the boys have been sent here, has contributed only a couple of really bad characters. Cases of absconding have been numerous: particulars of these are given in table L. In most cases, I believe, the boys go simply for the sake of a little change; a vessel for cruising would, I think, afford this. It is worthy of remark that since apprenticing to shore trades has ceased, a little over four months, there have been thirty-five cases of absconding, and only six during the previous eight months, when the boys were being rapidly discharged to service.

The garden and farm work connected with the school has been carried on with good results,

and is a source of considerable profit.

Table I. gives the number of boys who have been apprenticed during the twelve months, and the trades to which they have been indentured. A considerable demand continues to exist for boys from this institution for farm-work, particularly in those districts to which boys have already been sent from the school,

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Table K. shows the conduct of boys who have been apprenticed from the school since its establishment, and gives a result of a most satisfactory nature.

The appearance of the boys is, I think, evidence that they are well fed. The cost of ration for the past twelve months has been a little under sixpence per head per diem (5.827 pence), which includes fuel, lights, soap, seeds for farm and garden, and, for the last six months, the

cost of conveying the provisions from Auckland to the school.

Subject to the approval of His Lordship the Bishop of Melanesia, the trustees of the mission have consented to resume the charge of the old schooner at present attached to the school; and I trust that before long His Lordship's consent to this may be received. The question of providing a suitable vessel is one to which I would urge special attention. For general purposes I believe a small schooner of from twenty to forty tons would be the best. She could be fitted with exercising yards, and would, at most, entail but one additional hand, and would be available for cruising, fetching stores, &c., in all weathers; whilst a large vessel could not be got under weigh safely from this auchorage with the wind strong from N.E. by way of North to N.W., and for sea-cruising would require an additional staff of at least four men and two officers; at the same time, it cannot be doubted that the boys visiting the different ports in a vessel worked mainly by themselves would bring the institution more prominently under the notice of shipowners.

The erection of cottages to enable the instructors to have their families residing near them would, I imagine, go far towards keeping men for long periods. Single men soon, as a rule, tire of the worry and confinement, and, having no ties, seldom remain long. Recently there has been great difficulty in obtaining men, and for two months, prior to the increase of pay recently authorized for seamen-instructors, the schoolmaster and myself had to carry on the entire duties of the school, which not only entailed a very harassing increase of work, but materially interfered with the efficient conduct of the school. During this period several married men applied for employment, but, on finding that they could not bring their families with them, declined to

join.

I referred in my last report to the establishment of a penal school, and my subsequent experience has confirmed me in the opinion that great advantage would accrue from the existence of such an institution.

I would also recommend that a space should be housed in for the boys to play in in wet weather and in the evenings—at present the schoolroom, lumbered as it is with desks and forms, is the only place they have to go to; also that a closet should be attached to the dormitory for night use, the system at present in force of using buckets in the building being very objectionable on sanitary grounds.

In conclusion, I have great pleasure in testifying to the energy of the existing staff, and to the

ready co-operation I receive from them at all times.

I have, &c., G. R. Breton, Manager.

The Officer in Charge, Marine Department.

A.—Table showing the Educational State of Boys.

Particulars.		Read.				Wr	ite.			Cipher.		
Latuculers.	Well.	Indiffer- ently.	Not.	Total.	Well.	Indiffer- ently.	Not.	Total.	Well.	Indiffer- ently.	Not.	Total
Remaining on 30th June, 1877 Admitted during year ending	22	55	2	79	18	55	6	79	10	66	3	79
30th June, 1878	10	12	7	29	3	17	9	29	7	8	14	29
Total	32	67	9	108	21	72	15	108	17	74	17	108
Discharged during year ending		· · · · · · · ·			i			-				
30th June, 1878	14	22	1	37	25	11	1	37	11	19	7	37
Remaining on 30th June, 1878	42	27	2 ′	71	33	31	7	71	9	58	4	71
Total	56	49	3	108	58	42	8	108	20	77	11	108

B.—Table showing the Visits of Clergymen for Divine Service and Religious Instruction during the Year ending 30th June, 1878.

Roman Catholie.	Church of England,
28	49

C.—Return of Articles Manufactured and Work done in the School during the Twelve Months ending the 30th June, 1878, with estimated Cost of Labour employed.

Articles			Quantity.	Ra	to.		Pric	o	Articles.	Quantity.	Rate.]	Price	». —
Т				8.	d.	£		d.			s. d.	£	8.	
Frousers, serge	• • •		155	1	10	14	_	2	Amount brought forward	***			10	5
" duck			130	1	0	_	10	0	Caps, serge	102	1 0	5	2	0
" oilskin			16	1	0	0	16	0	" duck	24	10	1	4	0
Frocks, serge			126	1	5 }	9	3	9	Sheets	10	0 6	0	5	0
Jumpers, duck		۱	79	1	0	3	19	0	Oars repaired	12	0 6	0	6	0
" oilskin			15	1	0	0	15	0	Windows glazed	40	0 6	1	0	0
Flannel shirts			201	0	7	5	17	3	Fencing erected	3 chains	6 0	0	18	0
Mattress covers			64	0	6	1	12	0	Shed for storing potatoes			1	0	0
Pillow "	•••		42	0	11	0	5	3	Sundry repairs and alter-					
Neckerchiefs	•••		48	0	2^{1}	0	8	0	ations		•••	8	0	0
Amount carrie	d for	vard	•••			42	10	5	Total			61	5	5

D.—Return of Admissions and Discharges during the Year ending 30th June, 1878.

Admitted.	Number.	Discharged	١.	Number.	
Committals Remaining on 30th June, 1877		. 29 . 79	Apprenticed Time expired On application of relatives Sent to gaol		22 5 8 2

Remaining on 30th June, 1878, 71; two of whom are out on license.

E.—Table showing particulars of Parentage of Boys received during Year ending 30th June, 1878.

Number of Boys Received.	Both Parents Living.	One Parent Living.	Both Parents Dead.	Unknown.
29	13	14	2	•••

Circumstances as shown in Register.

nt under Sect	ion 8 of Act		1	5	Charged with larceny	1
**	9,,	•••		8	Father in gaol for stabbing a man	1
,,	10 ,,			13	Charged with robbing several dwelling-houses	;
,,	11 "			3	pleaded guilty to same	1
••	"				Tathen drawned at sag	1
					Father deserted	1
					Tatles involid	2
			ł		Stanmathon	9
					Ct - C - 13	1 1
			ł			·· 📫
			1			٠
					Stealing from dwelling; previous complaint of	ot
			į		same nature stealing on board steamer	1
			i		Robbing orchards	1
					Mother destitute and drunkard	2
					Obtaining goods by false pretences	1
			-		Bad; stolen five pounds	1
			.		False pretences and stealing	1
			1		No particulars received	11
			-		Total	29
Total	•••	•••	•••	29	Total	29

F.—Table showing from whence Boys have been received during Year ending 30th June, 1878.

Newcastle	•••			2	Greymouth	•••			3
Shortland				1	Nelson	•••	•••	•••	1
Westport	•••	•••	•••	1	Invercargill	•••	•••		2
Napier	•••	•••		1	Wellington		•••	***	3
Hamilton	•••			1	Dunedin				2
Thames '				5					
Oamaru		•••		1	Total	***		***	29
Auckland	•••	•••	,	6	•				
				1					

G.-Table showing Ages of Boys received during Year ending 30th June, 1878.

Number of Boys Received.							
Received.	10	11	12	13	14	Under 15	Not given.
29	3	8	7	6	2	1	2 .

H.—Table showing Religion of Boys received during Year ending 30th June, 1878.

Protestant.	Roman Catholic.	Baptist.	Church of England.	Presbyterian.	Total.
2	8	2	11	6	29

I.—Table showing the number of Boys Apprenticed during Year ending 30th June, 1878.

Seamen.	Farmers.	Stock Farmers.	Servant and Messenger.		
8	9	4	1		

K.-Table showing particulars of Conduct of Boys apprenticed from the School.

Number Apprenticed.	Good Report.	Indifferent Report.	Bad Report.	No Report.
39	27	4.	6	2

RETURN of Absconders during Twelve Months ending 30th June, 1878.

Names.	No.	No of times absconded during above-named period.	Previous to 30th June, 1877.	Remarks.
Keighley, Edward	126	1	•••	Broke into a house; sent to gaol.
Ryan, John	35	1	1	Not apprenticed, but discharged at expiration of his time.
Wilson, Palmer	117	3	2	Last two occasions came back voluntarily.
Harvey, Thomas	110	2	1	Ditto.
Nicholson, Antonio	. 60	1	•••	Apprehended by police.
King, Henry	99	1	•••	Ditto.
D. J. T	. 87	1	•••	Ditto.
Megerney, Edwin	. 112	1	1	Last time came back voluntarily.
Out of the contract of the con	18	3	3	Apprehended by police.
TŤ T	. 90	2 2		Ditto.
Tomana Edman	. 100	2	***	Ditto.
O'Connor, Michael	. 122	3		Ditto.
Agnew, Benjamin	. 135	3		Ditto.
Roberts, Edward	. 40	1 2	3	Last time came back voluntarily.
Walsh, Thomas	. 140	1		Stole a boot; sent to gaol.
Smith, Henry	. 16	1	•••	Apprehended by police.
Negus, Charles	. 114	2		Ditto.
Moore, Isaac	. 47	1		Ditto.
Westlake, Samuel	. 103	1		Ditto.
Reid, Hugh	. 111	2	1	Ditto.
McGrath, Patrick	. 115	1	1	Last time came back voluntarily.
Jesser, James Thomas	. 110	1	1	Ditto.
Weston, Joseph	120	1		Brought back by his mother.
Mourilyan, Wm. Thomas	. 57	1	***	Apprehended by police.
Heatly, Charles	140	2	•••	Ditto.
Courtis, Arthur	150	1 1	•••	Ditto.

Enclosure 3.

Dr. Goldsbro' to the Officer in Charge, Marine Department.

Auckland, 30th June, 1878.

I have the honor to report that during the past year the health of the inmates of the Naval Training School has been on the whole satisfactory.

There have been several severe cases, requiring considerable attention and surgical aid. One of these, E. Wilton, had an injury to the right leg, caused by a fall, followed by erysipelas

of a most violent tyre, and resulting in disease of the leg, requiring many operations for the removal of diseased bone, upwards of twenty-eight pieces having been extracted by myself. The wounds are now almost closed, the boy able to walk about, and resume light duty.

Another, William Miller, had a severe injury to the ankle-joint before admission into the school, and, from a sprain, violent inflammation supervened, and this case also required many operations, and gave enormous trouble for many months not only to myself but to the school

authorities. He is now quite recovered.

I have inspected every boy in the school weekly, examined every one on admission, made eighty visits during the year, and attended 569 cases, exclusive of a large number of boys suffering from scabies (itch and Maori pock), which have given considerable trouble for the last six months to all concerned, and I have only this week been enabled to give a clean bill of health to the establishment as regards these diseases.

The accommodation for the sick is inefficient, and the supply of hospital requisites of a most meagre character, and it reflects considerable credit on all concerned that so much has been done

with so few appliances.

I have made three night journeys during the year; these I made in an open boat. The cases requiring such attendance were of an urgent type, such as inflammation of the windpipe and strangulated hernia. These journeys took several hours to accomplish, and gave the manager

and boys in the boat hard work.

In consequence of the breaking down of the Government steam launch, I have been compelled to go by land for several months. The road is bad and rough, and at times, especially during winter months, frequently dangerous. I have necessarily been compelled to hire a strong carriage to enable me to make my weekly journeys, and last Saturday I had great difficulty in paying my visit under any circumstances, the road being so rough and cut up in consequence of continual bad weather.

I have again to thank Captain Breton, the Manager, for the assistance given to me, the great promptitude shown in cases of emergency, and his unwearied attention to the surgical ones requiring more than ordinary care. He has personally taken me to and brought me back from the school in the night, and when possible brought cases of accident up to town to visit me, thus preventing the double journey and extra fatigue to myself and the boys forming the boat's crew.

I would suggest that a small supply of hospital appliances and necessaries be granted to this institution, rendering treatment more easy, and conducing to the comfort of the patients under medical supervision; also, that some provision be made for isolating cases of itch, Maori pock, &c., thus rendering the spread of disease more difficult, and enabling medical treatment to be

carried out more satisfactorily in future.

I append a list of the most serious cases attended during the year (no death has occurred during the year):—Smith, consumption; Bentley, epilepsy; Shield, T., strangulated hernia, reduced without operation, and a truss fitted; special journey from 10 p.m., 10th December, to 1 a.m., 11th December, 1877. Good, W., and Edmunds, A., jaundice; Jesse, W., incised wound opening into elbow-joint. Keen, M. H., acute rheumatism.; special journey at night. Wm. Miller, old injury to ankle, causing abscess of joint, &c., requiring many operations; Bateman, W., acute laryngitis; two attacks, requiring night visits from 10.30 p.m., on 9th July, to 1 a.m. 10th July, 1877. Wilton, E., disease of bones of leg; this case was upwards of nine months in hospital, and underwent many operations, both under chloroform and without.

I have, &c.,

CHARLES F. GOLDSBRO', M.D., M.R.C.P., M.R.C.S.,

The Officer in Charge, Marine Department.

Medical Officer.

Average number of boys in the school during the year commencing 1st July, 1877, and ending 30th June, 1878: seventy-one and two-twelfths:—

	1877.				1878.	
\mathbf{July}		• •	77	January		 68
August			78	February		 64
September			78	March	• •	 65
October			74	April	• •	 69
November			75 ·	May		 68
$\mathbf{December}$			7 1	$_{ m June}$		 67

Enclosure 4.

Commander R. A. Edwin to the Hon. the Commissioner of Customs.

Wellington, 6th August, 1878.

I BEG to submit for your consideration the fourth yearly report upon the experimental system of storm warning, and in doing so am desirous of drawing your attention to return No. 1, showing the value of the storm warnings received at individual stations during a period of nine months. I had hoped to be able to afford this information for the whole year, but unfortunately an illness caused a suspension of the work for some time, and I have therefore only included in this year's returns the period during which I am confident the duties were fully resumed. No returns have

H.—12.

been received from Grahamstown, and those for Lyttelton and Bluff, being only made out for six months, are not included in table 1. The percentages of correct forecast at these places are: Lyttelton, direction of wind, 84.4; force of wind, 43.8; barometer movement, 65.5; and sea movement, 66.6. At Bluff, direction of wind, 80.7; force of wind, 52.9. But no result has been given for forecast of barometer and sea movement.

The percentages of direction of wind and barometer movement are the best test of the value of the weather forecast, but the lower percentage of force of wind would at first appear to indicate that the warnings are sent out more frequently than is necessary; as, however, few places are exposed to all winds, it follows that, should gales come from directions from which many of the stations are sheltered, the force as given in the returns will be lower than would be the case under other circumstances; but the barometer movement would be the same in either case, and therefore it is a truer test of the value of the work; but this movement cannot always be anticipated under present circumstances. The forecast of sea movement is frequently sent, and the result is shown in the table. It is 8 per cent. less than that of last year, but the information afforded by this forecast has proved useful on the coast, and it is also of value in ascertaining whether the warnings have been issued on reliable data, for at times there is much sea on the coast though the wind remains moderate. The sea is thus an evidence that the disturbance was in our neighbourhood. This table also shows the proportion of gales which were experienced at each place without warning having been sent of their approach. These instances have in a great measure arisen from the interruption caused to the weather report by Sundays and holidays. The mean for the whole period is 0.4 per cent., as against 1.09 of last year. At the foot of this table a mean value of each description of forecast is given. Return No. 2 shows the monthly result for the whole colony, the mean of which is found to be nearly the same as that for each place individually.

No. 3 is a comparative return. It shows the monthly result of each description of forecast

during the same period in the last two years, and is very instructive.

Returns No. 4 and No. 5 illustrate the manner in which the warnings are distributed, and show the result at each place. The warnings of the 17th May, 1878, comprised the whole colony, as the forecast showed the approach of disturbance of very large area; those of the 29th and 30th May show the manner in which the warnings are usually issued, the telegrams for the North being sent a day later than those for the southern districts. About 30 per cent. only of the warnings are sent to places situated north of Napier.

The remaining returns illustrate the manner in which the information sent to the various stations is returned to the central office. It is from such material that the accompanying returns of percentage value are derived, and I beg to draw your attention to the results of forecasts of high tides and cold weather, as shown in these returns, which will, I hope, be found worthy of

perusal.

As the results of the warnings are in all cases decided by the officers who receive them, it is hoped that they will be considered as unbiassed information. I have made no return of the result 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.

During the past year the work of this office has on more than one occasion been favourably noticed by the Press, and for the last seven 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. 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.

It has been a matter of much regret to me that the recommendation of the Committee on Weather Reporting last session was not confirmed, but in the interval I have received every

facility from Dr. Lemon and the officers of the Telegraph Department.

Since the latter part of June last the Government have afforded me the much-needed assistant, and, should this gentleman have higher remuneration offered to him than he receives at present, I have every hope that he will become efficient in the duties of weather forecast. During the last visit of H.M.S. "Wolverine" to this colony, Commodore Hoskins frequently availed himself of such information as I could afford him relative to probable changes in the weather, and was good enough to express himself very favourably as to the result of the forecasts received.

R. A. EDWIN, Commander R.N.

RETURN showing Percentage of Correct Forecast at the under-mentioned Places during Nine Months ending 30th June, 1878.

	Place.			Forecast of Direction of Wind.	Forecast of Force of Wind.	Forecast of Barometer Movement.	Forecast of Sea Movement.	Gales Without Warning.	Remarks.
				°/ 97·2	°/ 64°0	°/.	%	%	
Hokianga	• • •	•••	•••	97.2	64.0	82.9			The warnings are limited to
Russell	•••	•••	•••	93.2	71.7	69.0	71.4	2.2	area of 12 points of the
Whangarei	•••	•••	• • •	100.0	39.5	77.7	l		compass.
Coromandel	_ •••	•••	•••	82.9	22.5	77.0			_
Tokatea (altitu	ıde, 1, 2 0	0 feet)	• • •	75.0	56.5	80.9			Force-7 of Beaufort scal
Manukau (alti	itude, 90	0 feet)		97.7	51·1	73.2	78.3		is the lowest for which
Auckland `			•••	87.0	39.0	65.8		l	warnings are considered a
Cambridge (al	titude, 2	00 feet)		93.2	71.4	72.5		•••	being verified.
Lauranga `	′		•••	75.5	63.2	77.7	43.0	2.0	
Opotiki	•••	•••	***	90.7	46.0	88.0	84.2	2:3	
Taupo (altitud				95.6	72.7	75.6	i		
Hisborne (Pov	erty Ra	Δ)		82.1	52.6	75.0	92.3	•••	
Opunake (alti	tude. 10	() feet)		91.3	54·9	75.3	77.7	1.2	
Napier	•••	,	• • • •	96.2	65.4	87.5	85.7	1.8	ļ
Wanganui		***	• • •	98.7	61.0	72.5	09.7		
Castlepoint	•••	•••	•••	96.1	52.7		100.0	1.3	
Nelson	***	•••	• • •	91.3	28.3	90.0	100.0	•••	
Cophouse (alti	tudo 9 6	200 (004)	•••	87.5		86.4	•••	•••	1
Blenheim		•	•••		87.5	70.2	•••	•••	
Westport	***	•••	• • •	92.8	36.8	73.4	22.0	•••	i
Kaikoura	•••	•••	•••	71.2	25.0	75.7	61.5	•••	ļ
	•••	•••		53.1	52.1	80.5		•••	
Kekerangu	• • •	•••	•••	97.1	91.2	89.1	75.0		
Hokitika		_ **:	•••	94.9	25.3	89.2	77.7	,	
Bealey (altitue	de, 2,180	feet)	• • •	94.9	61.0	70.9			
Lyttelton	•••		•••		•••				į.
limaru	• • •	•••	•••	77.2	63.6	72.4	21.5		1
Damaru	_ •••	•••	•••	83.5	47.2	66.2	31.5		
Naseby (altitu	de , 2, 000) feet)	• • • •	94.7	23.8	85.0			
Port Chalmer	· · · ·		•••	87.5	65·6	73.8			
Balclutha	•••	***		98.0	43.1	76.9			
Queenstown (altitude,	1,100 feet)		100.0	58.0	86.2		1.8	ŀ
Roxburgh (alt	itude, 3(00 feet)	•••	90.2	44.3	92.2		1	
Mean average	for nine	months		89:23	52.80	78.99	67:67	0.40	

RETURN showing Monthly Percentage of Correct Forecasts for the whole Colony for Nine Months, October, 1877, to June, 1878.

	Month	•	Forecast of Direction.	Forecast of Force.	Forecast of Barometer.	Forecast of Sea.	Without Warning.	Remarks.
October, 1877 November, 18 December, 187 January, 1878 February, 1878 March, 1878 April, 1878 May, 1878 June, 1878 Mean of the a	8 	 	 85.44 92.50 86.85 88.88 83.05 87.65 89.70 92.70 88.00	60'14 47'52 35'39 57'64 44'83 57'70 54'23 57'55 34'90	77.54 80.72 85.54 77.67 69.94 80.24 77.17 79.40 79.80	68-00 56-52 67-57 61-22 57-14 71-43 76-08 75-00 76-00	°/°	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.

COMPARATIVE RETURN showing Monthly Percentage of Correct Forecast for Six Months, January to June, 1877, and same period 1878.

Forecast of	January.		February.		March.		April.		May.		June.		Mean of six months.		
101000000	1877.	1878.	1877.	1877. 1878. 1877. 1878. 1877. 1878. 1877. 1878. 1877. 1878. 1877. 1878. 1877. 1878.	1877.	1878.	Remarks.								
Direction of Wind	°/ 79 [.] 25	°/ 88·88	°/ 80°18	°/ 83·05	81·0	87 [°] 65	°/ 79 [°] Å3	°/ 89·70	88·10	92.70	°/ 87·97	°/ 88·0	°/ 82·32	°/ 88·33	The warnings are limited to an
Force of Wind	50.55	57 [:] 64	38.60	44.83	23.21	57·7 0	37.27	54·23	49·5 9	57.55	40.53	34 ·9	41.29	51.41	area of 12 points of the compass.
Barometer Movement	73.81	77.67	76.19	69.94	77.77	80.24	6 .78	77:17	80.21	79·4 0	79.94	79.08	74.95	77:37	Force-7 of Beau- fort scale is the lowest for
Sea Movement	71.43	61.22	91.66	57·14	76.54	71.43	77:78	76.08	88.46	75.0	74·5 0	76 ·0	80.02	69:48	which warnings

RETURN showing Result of a Storm-Warning, 1878.

				Rei	sult.	
Warning Sent.	Month.	Place sent to,	Direction of Wind,	Force of Wind.	Barometer Movement.	Sea Movement
	Mar		<u> </u>			<u> </u>
No warning sent, as gale not expected	May 17	Auckland				١
Bad weather probable any direction between	,,	Lyttelton		No	return.	
North-east and North and West, further	,,,	Timaru	N.W.	Heavy gale	Good	
fall of glass, and wind back	,,	Port Chalmers	N.W.	Heavy gale	Good	1
Dod woother pushable our direction between	13	Oamaru	N.W.	Gale	Good	
Bad weather probable any direction between North-east and North-west; glass fall again soon; sea increase	"	Greymouth Hokitika	N.W.	down on Gale	18th. Good	Good
Bad weather probable any direction between	,,	New Plymouth	N.W.	Mod. gale	Wrong	
North and West and South-west; glass	,,	Opunake	W.N.W.	Fresh	Wrong	Good
falling soon; expect heavy sea	,,	Westport	N.W.	Gale	Good	Good
	,,	Napier	N.W.	Gale	Good	
	"	Wanganui Nelson	West S.W.	Mod. gale Gale	Good Good	}
	"	Tophouse	s.w.	Heavy gale	Good]
	» »	Blenheim	North	Fresh	Good	ļ
	,,	Kaikoura	S.E.	Heavy gale	Wrong	l
	٠,,	Bluff	~~ ~~	No.	return.	
	,,	Queenstown	N.W.	Gale	Good	
	,,	Roxburgh	S.W.	Mod. gale	Good	
	,,	Balclutha Naseby	N.W.	Gale No	Good return.	l
	"	Bealey	North	Gale	Good	
))))	Grahamstown		Mod. gale	Good	
	,,	Tauranga	s.w.	Gale	Good	
	,,	Gisborne	South	Mod. gale	Wrong	
	"	Coromandel	S.W.	Gale	Good	
,	,,	Tokatea	S.W. West	Fresh Fresh	Good	
	,,	Taupo Cambridge	West	Fresh	Good Wrong	
Bad weather probable any direction between	,,,	Opotiki	N.W.	Gale	Good	Good
North and West and South-west; glass fall; heavy sea	"	Manukau	N.W.	Fresh	Wrong	
Indication strong winds any direction between	,,	Russell	N.W.	Fresh	Good	
North and West and South-west	,,	Whangarei	N.W.	Light	Good	
	,,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Hokianga	•••	Light	Wrong	
Bad weather probable any direction between	April 29	Port Chalmers	w.s.w.	Gale	Good	
North and West and South-west, and	,,	Lyttelton	**********	No		
glass further fall	"	Bluff		No	return.	
	,,	Roxburgh	N.W.	Gale	Wrong	
	"	Queenstown	N.W.	Gale	Good	
)))	Bealey Timaru	N.W. W.S.W.	Gale Light	Good Good	
	"	Oamaru	S.W.	Light	Good	
	"	Kaikoura	N.W.	Gale	Good	
•	",	Kekerangu	N.W.	Gale	Good	
	"	Balclutha	N.W.	Gale	Wrong	
	,,	Wanganui	N.W.	Gale	Good	
	,,	Blenheim	N.W. West	Mod. gale Mod. gale	Good Good	
	"	Tophouse New Plymouth	N.N.W.	Gale	Good	
Bad weather probable any direction between	"	Greymouth	North	Fresh	Good	
North and West and South-west, and	"	Hokitika	North	Gale	Good	Good
further fall of glass; expect increase sea	,,	Westport	W.N.W.	Gale	Good	Good
	ر ر	Opunake	North	Heavy gale	Good	Good
T: 1 (1 1 -11 1 -1 1 1	,,	Castlepoint	N.W.	Fresh	Good	Good
Bad weather probable any direction between North and West and South-west, and	30	Grahamstown Gisborne	S.W.	No Gale	return. Wrong	
glass further fall	"	Cambridge	N.W.	Gale	Good	
g	",	Auckland	N.W.	Light	Good	1
	,,	Hokianga	N.W.	Heavy gale	Good	
	,,,	Russell	N.N.W.	Gale	Good]
	,,	Whangarei	N.W.	Heavy gale	Good	
	,,	Coromandel	S.W.	Heavy gale No	Good return.	l
	22	Tokatea Tauranga	West	Light	Good	
	"	Tauranga	West	Gale	Good	ļ
Bad weather probable any direction between	"	Opotiki	N.W.	Gale	Good	Good
North and West and South-west; further	,,,	Manukau	N.W.	Heavy gale	Good	Wrong
fall of glass; expect much sea Gale in before warning sent	"			~ .		
		Napier	N.W.	Gale	Good	1

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

		Re	sult.	
Date and Hour Received.	Indicated Weather.	Direction of Wind.	Force of Wind.	Remarks.
6th, 3.55 p.m.	Bad weather probable, any direction betheen S.W. and S. and E., and glass fall	Good	Gale	Barometer good; wind from S.W. on 7th and 8th.
13th, 2.50 p.m.	Bad weather probable, any direction between N. and W. and S.W.	Good	Mod. gale	Barometer good; had heavy rain on 14th, with wind from N.W. shifting round W. to S.W.
15th, 10.10 a.m.	Bad weather probable, any direction between S.E. and S. and W.	Good	Mod. gale	Barometer steady; wind from W. and S.W., with indications of bad weather.
20th, 2.40 p.m.	Bad weather probable, any direc- between N. and N.W., and glass fall very much	Good	Gale	Barometer good; wind from N.E. on 20th round by N. to N.W.
21st, 2.10 p.m.	Bad weather probable, any direction between N.W. and W. and S., and glass rise	Good	Mod. gale	Barometer good; strong winds from S.W. on 22nd.

THOS. L. MILLER, Telegraphist.

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

6th,	Bod weether probable any direct	Good	Gale	Barometer good; on 7th wind S.W.; glass
3.22 p.m.	Bad weather probable, any direction between S.W. and S. and	aoou	Cale	fell one-tenth.
	E., and further fall glass			
13th,	Bad weather probable, any direc-	\mathbf{G} ood	Fresh	Barometer good, fell two-tenths; wind N.N.W.
2.55 p.m.	tion between N. and W. and		1	
	S.W.; glass considerable fall		1	<u> </u>
14th,	Bad weather probable, any direc-	\mathbf{G} ood	Light	Barometer wrong; wind S.W.
5.33 p.m.	tion between S.W. and S. and			
	W.; further fall glass			
20th,	Bad weather probable, any direc-	\mathbf{G} ood	Fresh	Barometer good; wind N.W.; rock not break-
4.37 p.m.	tion between N.E. and N. and			ing; sea moderate.
_	W.; glass fall very much; ex-		1	
	pect rock break			
21st,	Bad weather probable, any direc-	$\mathbf{G}_{\mathbf{ood}}$	Mod. gale	Barometer good; wind S.W. on 22nd.
1.26 p.m.	tion between N.W. and W.			
	and S.; glass rise soon		1	

J. F. MARTIN, Telegraphist.

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

6th, 4.45 p.m.	Expect southerly gale; glass rise	Good	Gale	Warning late; southerly gale commenced a p.m., with heavy rain, squalls continuing to night of 7th.
9th, 5.11 p.m.	Bad weather probable, any direction between N. and W. and	Good	Fresh	Fresh N.W. wind; barometer wrong.
12th,	S.W.; falling glass Bad weather probable, any direction between N.E. and N. and	Good	Gale	Barometer good; strong N.W. gale.
3.42 p.m.	W.; falling glass	<i>a</i> ,		
13th, 5.19 p.m.	Bad weather probable, any direction between W. and S. and S.E.; falling glass	Good	Mod. gale	Barometer good; appearances very bad; swel made considerably eastward on 15th.
15th, 2.10 p.m.	Bad weather probable on shift of wind to S.W.	Good	Gale	P.M. of 16th, S.S.W. gale.

J. F. FABIAN, Telegraphist.

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

8th, 2.18 p.m.	Bad weather probable, any direction between N. and W. and S.W.; further fall of glass	Good	Gale	Barometer good; 9th, wind W.; heavy easterly sea and drizzling rain; glass fell.
11th, 4 p.m.	Bad weather probable, any direction between N.W. and W. and S., and falling glass; expect	Wrong	Gale	Barometer good; sea good; gale from N.E., set in at 3 p.m. on 11th; glass fell.
12th, 3.39 p.m.	much sea Bad weather probable, any direc- tion between N.E. and N. and W., and further fall of glass; southerly swell probable for a	Wrong	Gale	Barometer good; sea good; strong gale from S.S.W., set in at 10 a.m. on 13th, with continuous rain and heavy sea.
14th, 2.39 p.m.	few hours Bad weather probable, any direction between N. and W. and S.W.; falling glass	Good	Heavy gale	Barometer good; gale from N.N.W.; glass fell.

RETURN No. 2, showing Results of Storm-Warnings received at Bealey (altitude, 2,180 feet) during the Month of May, 1878.

Date and		Rest	alt.			
Hour [Received.	Indicated Weather.	Direction of Wind.	Force of Wind.	Remarks.		
14th, 4.24 p.m.	Bad weather probable, any direction between W. and S. and S. E. : glass rise fast	Good	Gale	Barometer wrong; 8 p.m., thunderstorm and heavy rain; 10 p.m., S.W. gale.		
17th, 1.40 p.m.	Bad weather probable, any direction between N. and W. and S.W.; glass further fall	Good	Gale	Barometer good; 10 a.m., N., with violent squalls; 11 a.m., wind increased, with heavy squalls; 5 p.m., thunderstorm and hail, very threatening.		
30th, 2.54 p.m.	Bad weather probable, any direction between N.E. and N. and W., and further fall glass	Good	Fresh	Barometer good; wind N.E.		

J. M. Munce, Telegraphist.

RETURN No. 2, showing Results of Storm-Warnings received at Taupo (altitude, 1,200 feet) during the Month of June, 1878.

21st,	Bad weather probable, any direc-	Good	Gale	Barometer fell five-tenths; gale from W. to
3.40 p.m.	tion between N.W. and W. and S.; glass fall			s.w.
24th,	Bad weather probable, any direc-	\mathbf{G} ood	Gale	Barometer good; heavy gale from W.; glass
3.35 p.m.	tion between N.W. and W. and			fell.
	S.; glass further fall			
28 th,	Bad weather probable, any direc-	Good	Gale	Barometer good; blew very hard from S.W.
3.35 p.m.	tion between N. and W. and			during the night.
-	S.W.; glass fall again; likely			
	blow hard		1	

GEO. CROSSMAN, Telegraphist.

Return No. 2, showing Results of Storm-Warnings received at Manukau (altitude, 900 feet) during the Month of June, 1878.

15th.	Bad weather probable, any direc-	Good	Gale	Barometer fell two-tenths; sea good; wind
5.80 p.m.	tion between N. and W. and S.W.; glass fall two-tenths; expect much sea			N.W. to N., 4 to 8 steady; heavy rain; 16th, squally weather, heavy swell setting in.
20th,	Bad weather probable, any direc-	Good	Mod. gale	Barometer good; wind N.W., with heavy rain.
1.15 p.m.	tion between N.E. and N. and W.; and glass further fall			
22nd,	Bad weather probable, any direc-	Good	Gale	Barometer good; 22nd, barometer rose three-
1 p.m.	tion between N.W. and W. and			tenths; wind W.N.W.; bar breaking heavily.
•	S.; glass rise; expect increase sea			
24th,	Bad weather probable, any direc-	Good	Gale	Barometer good; 24th, barometer fell two-
5.30 p.m.	tion between N.W. and W. and S.; glass fall again; expect hard gale and heavy sea			tenths; wind W.S.W., frequent heavy squalls, with rain; sea continues heavy.
26th,	Bad weather probable, any direc-	Good	Gale	Barometer good; 27th, barometer rose three-
5.15 p.m.	tion between N.W. and W. and S.; glass rise; sea likely con- tinue			tenths; wind W.S.W., squally weather, with heavy sea.
28th.	Bad weather probable, any direc-	Good	Gale	Barometer good; wind W.S.W. to N.W.,
5.15 p.m.	tion between N. and W. and		0.02-0	frequent heavy squalls; bar breaking heavily.
	S.W.; glass further fall; ex-			
	pect hard gale and heavy sea		1	1

R. J. PALTRIDGE, Signalman.

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

	1		T	
20th, 12. 8 p.m.	Bad weather probable, any direction between N. and W. and S.W.; indications imply lightning; expect glass further fall	Good	Gale	Barometer fell six-tenths; blew gale, force 9 to 10, on night of 22nd, with rain and hail, direction westerly, veered to S. at 2 p.m.
24th, 1.44 p.m.	Bad weather probable, any direction between N.W. and W. and S.; glass fall three-tenths; from report expect heavy gale W. round by S. to S.E., when glass rises	Good	Heavy gale	Barometer good; 4.10 p.m., severe thunder- storm passed from N.W. to S.E., accom- panied by lightning, and the heaviest rain that fell for years.
26th, 4.54 p.m.	Bad weather probable, any direction between N. and W. and S.W.; expect falling glass	Good	Gale	Barometer good; 9 p.m., severe gale set in from W.N.W., with heavy rain; 6 a.m., 27th, severe gale passed over, accompanied by loud peals of thunder, vivid flashes of lightning, and heavy hail; lasted about an hour, force 10 to 12.

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

Date and		Re	esult.	
Hour Beceived.	Indicated Weather.	Direction of Wind.	Force of Wind.	Remarks.
21st, 1.20 p.m.	Bad weather probable, any direction between W. and S. and S. E.; expect heavy sea; glass may fall one-tenth; indications show hard gale	Good	Mod. gale	Barometer good; sea good; barometer fallen one-tenth between night of 21st and morning of 22nd; wind S.W., with clouds moving fast north-eastward, indicating strong winds in the offing.
25th, 5.30 p.m.	Bad weather probable, any direction between N.W. and W. and S.; indications show glass may fall again	Good	Gale	Barometer good; sea good; barometer, which had been very unsteady for some days at a low range, fell p.m. 26th, with a heavy rolling sea from S.W., and much rain; at 8.30 a heavy gale of wind broke on this part of the coast from S.W., with much lightning, thunder, and rain; this continued all night. This gale sent a heavy southerly sea in on the coast.

THOMAS TURNBULL, Harbourmaster.

RETURN No. 2, showing Results of Storm-Warnings received at Roxburgh (altitude, 300 feet) during the Month of June, 1878.

	1	1		
21st,	Bad weather probable, any direc-	Good	Gale	Barometer good. These warnings eventuated
12.15 p.m.	tion between W. and S. and	•		in a S.W. gale, blowing hard, with heavy
	S.E.; glass should be rising			snow and intense cold, with successive hard
	now; weather unusually cold			frosts.
25th,	Bad weather probable, any direc-	Good	Mod. gale	Barometer good; wind variable until night of
5.58 p.m.	tion between N.W. and W. and		_	26th, when it settled to S.E., with snow.
-	S.; indications show falling	,		
	glass			
28th,	Bad weather probable, any direc-	Good	Heavy gale	Barometer good; blew heavy N.W. gale during
4.48 p.m.	tion between N. and W. and			night of 29th, shifting to S.W.
•	S.W.; falling glass			

THOS. COOK, Telegraphist.

RETURN No. 2, showing Results of Storm-Warnings received at Tophouse (altitude, 2,200 feet) during the Month of June, 1878.

22nd, 2.55 p.m.	Bad weather probable, any directed between S.E. and S. and E.; likely to have fall of snow and sharp frosty weather	Good	Gale	Barometer good; hard gales from E.S.E. during p.m. of 22nd; snow from W.S.W. on a.m. of 23rd.
26th 4.50 p.m.	Bad weather probable, any direction between N.W. and W. and	Good	Gale	Barometer rose three-tenths; strong gale during night of 26th from N.N.W., with
001	S.; glass likely to rise	C3	TT1-	heavy snow-storm.
28th	Bad weather probable, any direction between N. and W. and	Good	Heavy gale	Barometer good; heavy gale on p.m. of 30th
4.15 p.m.	S.W.; glass further full; indications for heavy gale			from S.W., with heavy snow-storm.

W. J. WHITE, Telegraphist.

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

7th,	Bad weather probable, any direc-	Good	Under 7	Barometer good; at 9 a.m. on 7th barometer
3.30 p.m.	tion between N. and W. and		*	29.33; at 9 a.m. on 9th, barometer 29.42;
	S.W.; glass rise soon	~ 1		winds generally moderate.
10th,	Bad weather probable, any direc-	Good	Under 7	9 a.m., 11th, 29.56; rose to 29.70 by 9 a.m.
4.30 p.m.	tion between S.E. and E. and			12th; winds generally moderate, with un-
	N.E.; likely have very high			usually high tides; heavy swell in the mouth
	tide			of the harbour. In the straits, appearances
				very bad.
14th,	Bad weather probable, any direc-	Good	Under 7	Glass fell from 29.84 on 14th, to 29.76 at 3
7 p.m.	tion between N.E. and N. and			p.m., with N.W. 4 to 5; and at 9 p.m. on
· p	W., with heavy rain			16th was down to 29.44. An immense
	VV., WIGH HEAVY TURN			quantity of rain fell during this period.

WM. TUCKER, Telegraphist.

RETURN No. 2, showing Results of Storm-Warnings received at Port Chalmers during the Month of June, 1878.

20th, 3.20 p.m.	Bad weather probable, any direction between N.W. and W. and S.; glass likely rise soon	Good	Heavy gale	Barometer wrong; experienced heavy W.S.W. gale, with falling glass, and a considerable fall of snow on 22nd.
25th, 8 p.m.	Bad weather probable, any direction between N.W. and W. and S.; indications show glass may fall	Good	Gale	Barometer good; experienced fresh W.S.W. gale, with falling barometer, on the 26th.
27th.	Bad weather probable, any direction between N.W. and W. and S.; indications show wind backing.	Good	Gale	Experienced strong gales from W.S.W. to N.W.

RETURN showing the Total Ordinary Expenditure of the Marine Department during the Financial Year ended the 30th June, 1878.

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arbours:—	ı.p.	•••	•••	•••				2,132 5 3	2,132 5
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Contingencies	•••	•••		•••		140 11	. 11		
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Salaries	***			•••		320 0			
Contingencies	•••		•••			6 14	6		
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Patea,— Salaries						100 0	0		
Contingencies	•••		•••	•••		18 17			
2. 2 Print Popular	•••	•••		•••				118 17 8	
Wanganui,-					j				
Repairs to Pilot	Station			•••		152 8	1		
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Foxton,—						400 0			
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Wellington,—]	9 960 10	9		
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Soames' Island Lig	 hthouse	•	•••	•••		0, 1	J		
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a		•••		•••	}	65 1			
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Wairoa,—						400	_		
Salaries	•••	•••	•••	•••		100 0	0	100 0 0	
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	forward							8,847 19 3	2,132 5

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

. Na	ture of Ex	penditu	re.			Details of Expenditure.	Totals.	Grand Total.	
Broug	ht forward	i	•••			£ s. d.	£ s. d. 8,847 19 3	£ s. 2,132 5	
ours—continued.									
Wangawehi,—					ł				
Light	***	•••	***	•••	•••	60 0 0	00 0 0		
//					-		60 0 0		
Tauranga,— Salaries			•••			294 0 0			
Contingencies	•••	•••	•••			64 13 7	1		
6					-		358 13 7		
Gisborne,—									
Salaries		•••	•••	***	•••	291 10 0			
Removal of rock		•••	•••	•••	***	174 0 0 154 12 9			
Contingencies	***	•••	•••	•••	.	104 12 0	620 2 9		
Wairau,—									
Salaries	•••	• • •	•••	•••		132 0 0			
Contingencies 2	•••	•••	•••	•••		18 9 5	150 0 5		
Dioton			•		-	·	150 9 5		
Picton,— Salaries			•••			119 0 0			
Contingencies	•••		•••	•••		34 8 10			
					j -		153 8 10		
Havelock,—						50 0 0		•	
Salaries Beacons	•••	•••	•••	•••	•••	50 0 0 80 0 0			
Beacons	•••	•••	•••	•••	-	80 U U	130 0 0		
Nelson,									
Salaries	•••	•••	• • •	•••		1,420 0 0			
Contingencies	•••	•••	•••	•••		97 14 9	1 517 14 0		
Wastnort					-		1,517 14 9		
Westport,— Salaries			•••	•••		410 0 0			
Contingencies	•••	•••	•••	•••		145 5 10			
					-		555 5 10		
Greymouth,—					ł	407 0 0			
Salaries	 ianal Stat	ion	•••	•••		435 0 0 1 140 11 4			
Alterations to S Contingencies	iRuar orar		•••	•••		130 5 7			
- amm-Portoren	•••	•••	•••	•••	-		705 16 11		
Hokitika,—						-			
Salaries	1 Station	•••	***	***		722 0 0 204 16 0			
Repairs to Signa Contingencies			•••	•••	:::	204 16 0 147 2 11			
- our menution	•••	•••		•••	-		1,073 18 11		
Okarito,—							-		
Salaries	•••	•••	•••	•••		50 0 0			
Contingencies	•••	•••	•••	•••	•••	64 2 3	114 2 3		
Riverton (ten month	в).—				-		114 2 3		
Salaries			•••	•••		125 0 0			
Contingencies	•••		***	•••		88 11 9	210		
Ca41:m/a D:					-		213 11 9		
Catlin's River,— Salaries						125 0 0			
Contingencies	•••	•••	***	***		41 11 10	•		
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Waikawa,—					-	ا ء ء س			
Salaries Contingencies	***	•••	•••	•••		50 0 0			
Contingencies	•••	•••	•••	•••		3 17 4	53 17 4		
Port Chalmers Gravi	ing Dock.				ſ		30 11 3		
Wages and Con	tingencies		•••	•••		1,152 12 7			
Interest on Doc	k Loan	•••	•••	•••		1,704 0 0	9 950 10 %		
Waikouaiti,					١.		2,856 12 7		
Salaries	***			•••		75 0 0			
Contingencies	•••	•••	•••	•••		12 3 5			
•					-		87 3 5		
Moeraki (eight mon	• .					60 10 A			
Salaries	•••	•••	•••	•••		66 13 4	66 13 4		
Kakanui,—					[00 IO I		
Salaries		•••	•••	•••		150 0 0			
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	***		•••		•••	25 0 0			
Akaroa,— Salaries Contingencies									
		•••	•••	•••		16 11 8	41 11 8		
Salaries Contingencies			•••	•••			41 11 8 17,923 14 5		

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

ľ	vature of 1	Expenitu	re.			Details e Expenditu		Totals.	Grand Total.
Brou	ght forwar	rd	•••		•••	£	s. d.	£ s. d. 17,923 14 5	£ s. 2,132 5
arbours—continued.									
Sumner,— Salaries Contingencies			,			110 (7 16	0 0		
	***				-			117 16 1	
Kaiapoi,— Salaries					ľ	120	0 0		
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77. 11		-			-			120 19 6	
Kaikoura, Salaries			•••			50	0 0		
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Collingwood,-								51 18 6	
Salaries						12 10	0		
Contingencies	•••		•••	•••	•••	19 18	5 0	32 5 0	
Karamea,—					[32 5 0	
Contingencies	•••		•••	***	•••	12 8	3 0	10.00	
Motupipi,					-			12 8 0	
Contingencies			•••	•••		6 12	0 8		
Weiten					-			6 12 0	
Waitapu,— Salaries	***		•••			7 10	6		
Contingencies	•••		•••	•••		11 10			
Motueka,					[-			19 1 3	
Contingencies			***	•••		2 18	8 6		
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Martin's Bay,— Salaries	•••					40 1	1		
Contingencies	•••		•••	•••	• • •	124 18		1	
Riwaka,—					[-			164 19 4	
Contingencies	•••		•••	•••		4 18	3 0		
Whan soud					-			4 18 0	
Whangarei,— Subsidy to Fer	rvman		•••	***		50 (0 (1	
	•				[-			50 0 0	
Mongonui,— Contingencies	•••			•••		0 10	0 (1	
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Napier Bluff Light Salaries	house,—	•	•••			254 16	3 0		
Contingencies		•••	•••	•••			10		•
Stewart Island,-								327 17 10	
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Salaries Oil, Stores, and	Continge	encies	***	•••		45			
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Portland Island,—— Salaries			• • •			188 2	1	1	
Oil, Stores, and	l Continge	ncies	• • • • • • • • • • • • • • • • • • • •			95 12		1	
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Pencarrow Head,— Salaries						299 10	0 (
Oil, Stores, and	l Continge	encies				196 14		100 (5	
Mana Island,—					-	-,,,		496 4 3	
Salaries	***			•••		97			
Oil, Stores, and	l Continge	ncies	<i>:::</i> •			64 14	8	162 0 4	
Manukau Heads,—					ľ			162 0 4	
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Salaries	1 ~					186 17	7 2	i l	
Salaries Oil, Stores, and	l Continge	encies	•••	•••	-			480 12 2	
Oil, Stores, and	l Continge		•••	•••				480 12 2	21,087 15

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

					1	Expenditure.		Grand Totals.	
Brough	at forwar	d				£ s. d.	£ s. d. 2,461 7 11	£ s. 21,087 15	
ghthouses—continued.									
Brothers,—					1	499 17 2			
	 Conting	ongine	•••	•••	• • • •	499 17 2 310 9 0			
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Cape Campbell,-									
Salaries	***	•••	•••	•••		271 9 2			
Oils, Stores, and	l Conting	encies	***	•••	•••	188 18 9	460 7 11		
A allem Hand							400 / 11		
Godley Head,— Salaries	•••	•••		***		350 O O			
Oil, Stores, and	Continge		•••	•••		234 3 11			
	_				<u>}</u> -		584 3 11		
Moeraki,					1	h1 0 10			
Salaries Oil, Stores, and	Continge	ncies	•••	***		71 0 10 42 18 7			
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Taiaroa Head,						ALU - 1	•		
Salaries			•••	•••		275 5 7			
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Nugget Point,-					ſ		, - 0		
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Dog Island,— Salaries						384 15 0			
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Farewell Spit,— Salaries			•••			415 0 0			
Contingencies		•••	•••	***		156 15 4			
· ·					ŀ		571 15 4		
Nelson,—					-	240 0 0			
Salaries Oil, Stores, and	Continge	ncies	•••	•••		117 6 0			
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					1		970 0 0		
Sundries and General			***	***	•••	•••	359 3 2 367 9 11		
Departmental Travel Coastal Buoys and B		···	•••	•••	:::	***	318 10 8		
Charts	•••	•••	•••	•••		***	122 2 4		
#* 1 /2 1 /20					1			1,167 6	
Lighthouse Artificer "Stella," s.s.	•••	•••	•••	•••	•••	•••	•••	240 0 *5,354 7	
"Hinemoa," s.s.	•••	•••	•••	•••	:::	•••	***	5,016 1	
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Totals									

^{* £2,458 5}s. 10d. charged against Public Works Account, Lighthouses.

STATEMENT showing the Expenditure on New Lighthouses out of Immigration and Public Works

Loan during the Financial Year 1877-78.

Nature of	Expendit	ire.		Amount.				
Durthau Tighthouse				£ s. d.				
rothers Lighthouse	•••	***	***					
ortland Island		***		1,704 10 9				
Puysegur Point		***		3,418 12 1				
Mokohinau				43 10 0				
Cape Maria Van Diemer	a	•••		1,863 12 11				
Centre Island	•••	•••		1,905 19 7				
Moeraki		•••		2,804 2 3				
Akaroa		•••		2,510 15 2				
Cape Saunders	•••	•••	,	545 4 1				
limaru				708 8 3				
'Hinemoa," s.s.		•••		793				
"Stella," s.s	***	•••	•••	2,458 5 10				
Total		•••		£18,310 16 2				

STATEMENT showing the amount of Pilotage, Port Charges, &c., collected in New Zealand during the Financial Year ended 30th June, 1878.

		Port at which Col	lected.			Pilots	age.		Port Char	ges, a	&с.	Total.		
	-					£	s.	d.	£	s.	d.		s.	d.
Auckland	•••	•••	•••	•••	***	1,109		7	115	6	1	1,225	1	8
Onehunga	•••	•••	***	***	,	169		6	128	2	3		11	9
Kaipara	***	•••	•••	• • • •	•••	663		6	287	13	10			4
Tauranga	•••	•••	•••	•••		60		3					18	3
Thames		•••	•••	•••		56		0	64	17	11	121	4	11
Russell		***		•••	***	91	18	0				91	18	0
Mongonui		***		•••	***	•••			11	10	9	11	10	9
Hokianga		•••				149	10	10				149	10	10
New Plymout		•••		***		76		6	46	12	5	123	4	11
Wanganui		•••		•••		258	13	2				258	13	2
Patea .				•••		2	5	11	2	12	1	4	18	0
Rangitikei						13	14	10				13	14	10
Foxton		•••	•••			84	14	4	t			84	14	4
Wellington						2,277	4	8	1,418	1	11	3,695	6	7
Napier		•••		•••		1,065	10	2	273	4	6	1,338	14	8
Wairoa	•••	•••	•••			55	10	9	.,.	•			10	9
Poverty Bay		***		•••		45	18	5				45	18	5
Nelson	***	***		•••		840	10	11	7	11	2	848	2	ĩ
Hokitika	•••	•••		***		34	18	8					18	8
Lyttelton	***	***	•••	***		2,872	4	11		17	4	4,678	2	3
Timaru	141	***		***		, , , ,			´ 9	19	5		19	5
Oamaru		***	•••	•••					250	5	7	250	5	7
Kakanui		***	•••	•••		•••			9	19	8		19	8
Dunedin		•••		***		1,973	4	2	1,289	10	1		14	3
Invercargill (I	Vew Rive			***		_,	_	_	66	5	7	66	5	7
Bluff		-	•••]	487	10	8	341		0	829	9	8
Riverton	•••	***	•••	•••	""	22		4	11		ŏ	34	9	4
Moeraki	•••	***	•••	•••	•••			~		19	ŏ		19	õ
Port Molyneu:	···	•••	•••	•••	•••	•••			3	8	ŏ	3	8	ŏ
Waikouaiti		***	•••	•••	•••	•••				11	8		11	8
11 amount	•••	***	•••	•••	***	•••								_
	Tota	als for 1877–78			•••	£12,412	10	1	6,174	4	3	18,586	14	4
	Tota	als for 1876–77	•••	***		£13,078	11	9	5,873	4	5	18,951	16	2

Return showing the Quantity of Oil Consumed at the New Zealand Lighthouses during the Year ended 30th June, 1878.

Nam	e of Lighthous	ie.		Gallons Consumed.
Tiritiri	***	•••		466
Portland Island		•••	***	212
Pencarrow Head	•••			510
Mana Island	•••			134
Manukau Heads	•••	•••	•••	475
Brothers	•••	•••		483
Cape Campbell	•••			431
Godley Head	•••	•••		399
Moeraki	•••	•••		116
Taiaroa Head	•••			405
Nugget Head	•••	•••		504
Dog Island	•••	•••		655
Cape Foulwind	•••	•••		526
Farewell Spit	***	•••	•••	416
Nelson	•••	***		184
Soames Island	***	***	***	166
Napier Bluff	•••	•••	•••	220

STATEMENT showing the amount of Light Dues collected in New Zealand during the Financial Year ended 30th June, 1878.

Na	me of Port	at which Colle	cted.		Amount Collected.
					£ s. d
Auckland		•••			1,650 5 0
Onehunga			•••		116 15 (
Kaipara					46 7 9
Tauranga					49 4 6
Thames	***				19 8 8
Whangaroa					6 5 1
Russell			•••		91 14 11
Mongonui					04
Hokianga'					9 14 (
Whangarei		•••	***		19 8 (
New Plymouth				1	83 11 2
Wanganui					59 1 2
Patea					0 2 1
Rangitikei	•••				18
Foxton					15 6 2
Wellington		•••			2,327 7
Napier .	•••				199 10
Poverty Bay			•••		32 1 3
Picton		•••			115 16 13
Havelock			•••		18 5
Wairau					21 10
Kaikoura					9 3 4
Nelson					719 6
Westport		•••			218 11
Freymouth		•••			118 5 1
Hokitika					38 16
Lyttelton				:::	2,407 6
limaru		•••	•••		92 1
Damaru		•••			140 19
Kakanui		•••	•••		4 12
Dunedin	•••	•••	•••		2,240 3 (
invercargill (Ne		•••	•••	•••	21 9 1
Bluff	•••	•••	•••		613 13 10
Riverton		•••	•••		7 9 7
Moeraki	•••	•••	***		2 12 4
HOGIAAI	***	•••	•••	•••	
	Total fo	or 1877–78	•••	[£11,517 19 2
	Total fo	r 1876–77	•••		£11,035 4 2

STATEMENT showing the amount collected during the Financial Year 1877-78 as Fees under the Steam Navigation Acts and the Merchant Ships Officers Examination Act, and from the Sale of Charts, &c.

		Amount	t.							
Fees under Steam Navigation	on Acts ar	ıd Merchant	Ships Offic	ers Examin	ation Act	111	,,,	£ 935	s. 12	d. 0
Sale of Charts		• • •		•••				68	6	0
Survey of Unseaworthy Shi	ps	• • •						8	6	8
Pilotage Exemption Certifica	ates	***				•••		189	0	0
Sale of Oil-casks, &c.	•••	•••	***	•••	•••	•••	•••	1	14	6
Total	•••	***			•••	,		£1,202	19	2

RETURN of Masters, Mates, and Engineers to whom Certificates of Service have been granted under "The Merchant Ships' Officers Examination Act Amendment Act, 1871," during the Financial Year 1877-78.

Name	Name of Person.				Granted.	Class of Certifica	ite.	Date of Issue of Certificate.	Number of Certificate
Edward Perkins				Master		Foreign Trade		30 July, 1877	2462
Robert Watt				Mate		Home "		30 " "	2463
John Urguhart		•••		Master		Foreign "		16 Aug. "	2464
David Mason		•••		,,		Harbour "		25 Oct. "	2465
Thomas Scott				,,		Home "		20 Nov. "	2466
George Siddells		•••		,,		,, ,,		27 Feb., 1878	2468
Charles Smith		•••		,,		,, ,,		7 Mar. "	2469
John McDougall		***	***	Mate		Foreign ,,		12 ,, ,,	2470
Lars Petersen		•••		Master	***	Home ,,		2 April "	2471
Edward Kerns		•••	• • •	,,		,, ,,		2 , ,	2472
Charles Forbes Vince	3	•••		,,		,, ,,		17 ,, ,,	2473
David Mason			***	Engineer		Second Class	}	25 Oct., 1877	1030
James Macfarlane		•••		ļ ,,		,,		6 Feb., 1878	1031
Henry Hollingsworth	ı	•••	•••	,,		,,		1 Mar., ,,	1032
Alexander Darling		•••		,,		,,		21 ,, ,,	1033

Return of Masters, Mates, and Engineers, to whom Certificates of Competency have been granted under "The Merchant Ships' Officers Examination Act, 1870," during the Financial Year 1877-78.

Name of P	erson.		Rank for which gr	anted.	Class	of Certifica	ite.	Date Issue of Cer	Numbe of Certifics	
ohn McKenzie		1	Master	•••	Foreign	1 Trade	,	9 July,	1877*	
Latthew Fitzpatrick			Only Mate	•••	,,	,,		11 "	**]
arles Thomas Paterso			Master	•••	"	,,	•••	11 "	,, *	١.
nomas McGee		•••	"	•••	,,	,,		15 Aug.,	,, *]
eorge Pickering Carr		•••	Second Mate	•••	,,	"		7 Sept.,	,, *]
iomas Richards		•••	Only Mate	•••	,,	"	•••	19 "	" * *]]
rederick Condy		111	Master	•••	,,	**	•••	25 ,,	,, *]
hn Curran		***	Second Mate	•••	"	11	•••	26 ,,	" *]
aniel Reavy		•••	Master		,,	,,		5 Oct.,	" *]
ilford McArthur .		•••	Only Mate	•••	,,	"	•••	5 ,	,, "	1
		•••	Second Mate	•••	,,	**	***	22 ,,)) *]]
mes Reardon			0.1" 35-4-	•••	,,	**	•••	26 " 30 "	,,	ĺi
eter Theet	••	•••	Only Mate	•••	,,	"	•••	8 Nov.,	" *	í
seph Goodman		***	Master	•••	,,	"		10.	» *	
illiam Andrew Smith.		•••	First Mate	•••	,,	"	•••	10 ")) [~]	1
	•••	•••	Second Mate	***	,,	"	•••	12 ,,	*	i
hn William Cumming lexander Thomas Frasc		•••	Master	•••	,,	,,	•••	12 ,,	,, *	ī
rederick Nutt Godden		•••	First Mate		,,	"		20 ,,	", *	1
vid Buike		•••	Master		,,	",		3 Dec.,	~, *	1
701 '		•••	Only Mate		,,	"	•••	11 "	,, *] 1
eorge Jackson Hughes		•••	Master		,,	"	•••	11 "	, , *	1
'illiam Ensign Boxall.		•••	,,	•••	,,	"		12 ,,	"] 1
bert Dann			",		,,	"	•••	13 ,,	,,	1
		•••	First Mate		,,,	"		17 ,,	,, *	1 1
		•••	,,	•••	",	"	•••	17 "	,, *	1
atrick Grieve Howdon.		•••	Master	•••	",	"	•••	20 "	"]]
mes Johnson .		•••	Only Mate	•••	,,	"	•••	21 ,,	,, *	1
lof Johnson		•••	,,	•••	,,	"	•••	29 ,,	,, *]
hn McLean Cameron.		***	,,	• • •	,,,	**	•••	31 "	"]
hn Philip Syvret .		•••	,,	•••	,,,	"		31 ,,	1070 #	1
eorge McKnight .		•••	First Mate	•••	,,	**	•••		1878 *]]
le Helgeson		•••	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•••	,,	"	•••	1 ,,	"]]
rthur Cornwallis Anth	ony Bacon	***	Second Mate	•••	,,	"	•••	1 ,,	"	1
		•••	Only Mate	•••	,,	"	•••	7 ,,	" *]
		***	,,	•••	,,	"	•••	18 ,, 2 Mar.,	"]
nton Nannestad		•••	,,	•••	,,	"	•••	l = '	"	j
		***	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•••	,,	"	•••	19 "	"	1 1
lan William Stewart		•••	Second Mate	•••	"	"	•••	10 "	" *	, ,
		***	Master	•••	"	13	•••	۳ مما	" *	
		•••	Saarud Mata	•••	,,	11	•••	28 ,, 2 April,	" *	. 1
		•••	Second Mate	•••	,,	11	•••	ئاما	" *	, , , ,
		•••	Only Mate First Mate	•••	"	13	•••	11 "	,, "	î
hn Blackwell Booth Imes Butchart Dickson		***	Master	•••	"	";	•••	17 ,,	" "	l î
ohn Christian Möller .		•••	i .	•••	"	"	•••	8 May,	" *	1
illiam John McCabe.		•••	"		"	"	***	11 "	,, *	1
hn Cowper		•••	,,		"	"		13 "	,, *]]
mes Campbell Arthur		• • • • • • • • • • • • • • • • • • • •	First Mate	•••	,,	"	•••	29 ,,	,, *	3
hn Adams Bewicke .			Master	•••	,,	"	•••	10 June,	,, *	1
lwin Adam Robinson.		***	First Mate	•••	,,,	"		17 "	,, *]]
eter Christiansen		•••	,,		,,	"		25 ,,	"]]
hn Quinlan			Master		Home	Trade		4 July,	,,,	51
mes Crawford			,,	•••	,,	,,	•••		1877	50
lward Aldis Robinson	•••		,,		,,	"	•••	3 Aug.,	,,	51
eorge Ossian Anderson			,, -		,,	"	•••	16 "	**	51
hn Frederick Nelson .		•••	,,	•••	,,	"	• • •	27 ,,	"	51
eorge William Parker			,,	•••	,,	"	•••	27 ,,	**	51
exander Macfarlane		***	,,	• • •	,,	"	•••	31 ,,	"	51
narles Klein		•••	7.00-4-	•••	"	"	•••	1 Sept.,	,,	51 51
hn Johnson		***	Mate	•••	,,	11	•••	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	"	51
omas Edward Willian		•••	Master	•••	,,	"	•••	10 "	"	51
hn William Turner		***	,,	•••	,,	"	• • • •	9 Oct.,	**	51
		•••	,,	•••	,,,	"	• • • •	ا مو	"	51
	•• ···	•••	,,	•••	,,	"	•••	12 Nov.,	**	51
		•••	,,	•••	,,	,,	•••	1 7 0	,,	51
		•••	"	•••	,,	,,	***	23 ,,	"	51
	•• . •••	•••	"	•••	,,,,	"	•••	3 Dec.,	,,	51
		•••	,,	•••	, ,,	,,	•••	13 ,,	"	51
(1) '11'	••	•••	,,	•••	,,	,,	•••	17 ,,	"	51
		•••	"		,,	"		17 ,,	"	51
1 011 11	·· ···		"	***	,,	"	•••	20 ,,	"	51
3.6.11			,,,	•••	"	"		12 Jan.,	1878	51
ans Andreas Neilson .		•••	,,	•••	,,	"		12 ,,	"	51
ephen Ellis		•••	.,	•••	,,	"	•••	17 ,,	,,	50
- ^1 13			"		,,	"		17 ,,	"	51
tto Herman Arndt		•••	",		"	"		17 ,,	"	51
lexander Wynd		•••	,,,	•••	"	"	•••	24 ,,	"	51
.1 36 25 11		•••),),	•••	, ,,	"·	•••	18 Feb.,	"	50
SDDOCH MICIOUSIN -								2 Mar.,		51

RETURN of Masters, Mates, and Engineers' Certificates of Competency-continued.

Name of	Person.			Rank for which	h granted.	Class of Certifi	cate.	Date of Issue of Certificate.	Number of Certificate.
Daniel Higgins .				Mate		Home Trade	•••	13 March, 1878	5,132
TO 3 T Co			•••	,,		,,	***	2 April, ,,	5,133
Charles Frederick Back	strom	•••	•••	Master		,,	•••	4,,,,,,	5,134
John Picton .	•••			,,	•••	,,	•••	11 ,, ,,	5,135
James Anderson .				,,	•••	19		2 May, ,,	5,136
Alfred Johnston				Mate		,,	•••	8 ,, ,	5,137
John Abram				Master		,,		9 ,, ,,	5,138
John Anthony Stewart			•••	,,		,,	•••	9 ,, ,,	5,139
Take Comes				,,		,,	•••	29 ,, ,,	5,140
Andrew McGregor			•••	Mate		,,		14 June, "	5,141
Henry Arthur Day			•••	Master		,,		17 ,, ,,	5,142
Tahm O Omith			•••	Mate		,,		17 ,, ,,	5,143
John Grubb				Master	• • •	**		17 ,, ,,	5,144
Wesley Johnston .	•••			Engineer		Second Class	,	4 July, 1877	. 39
Harrison Balfour Irwin		•••		**	•••	,,		4 ,, , ,, *	40
m ~ T \	-	•••		,,	•••	"		3 Aug., "	41
********		•••		,,	•••	"		4 Sept., "	42
T.1 4 J	•••		•••	, ,	•••	,,		19 ,, ,,	43
David Cuthbert Braid .			•••	,,		"		23 Oct., ,, *	44
707:11: O-L1.		•••		,,	•••	First Class	•••	16 Nov., "*	34
Datas Clamanas		•••		",	•••	Second Class		25 Jan., 1878	45
T.L. M. W				,,	•••	First Class	•••	26 ,, ,, *	27
T 7T 3			•••	",		Second Class	***	2 March, " *	46
Alama a dan Cullan	•••	•••		,,	•••	1		27 ,, ,, *	47
Thomas Sydney Hamer			• • • • • • • • • • • • • • • • • • • •	,,	***	"		10 April, ",	48
Ol 107 11				,,	•••	"		13 June, " *	49
Henry Augustus Leves		•••		,,,	•••	"		27 ,, ,, *	50

^{*} 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 1877-78.

Name of Person.		Rank for w Issued.		Date of Issue of Certificate.	Number of Certificate.
Simon William Wilson		Master	•••	25 Sept., 1877	3,015
William Bettis		,,		19 Oct., "	3,016
Arnold Claudius Schnauer		,,	•••	12 Nov., ,,	3,017
James McNeill		;,	•••	1 Feb., 1878	3,018
John Godfrey Carlquist		,,		18 " "	3,019
Isaac Fletcher		39		29 May, ,,	3,020
Samuel Joseph Roe		,,		25 June, ,,	3,021
John Thomas Smith	•••	Engineer	,	19 July, 1877	1,272
James Alexander Garrett	•••	,,	•••	19 ,, ,,	1,273
Henry Ballans	•••	,,		21 ,, ,,	1,274
Allen Christey		"	•••	10 Aug., ,,	1,275
Edward White	•••	,,		10 ,, ,,	1,276
Donald Stalker		"	•••	5 Sept., "	1,277
Thomas Boddington		,,	•••	7 ,, ,,	1,278
Alexander Marshall	•••	,,	•••	7 ", ",	1,279
Robert Hagon		,,		5 Oct., "	1,280
David Bruce	•••	"	,	23 ,, ,,	1,281
Peter Peterson	•••	"		5 Nov	1,282
Alexander Fleming	•••			9 Dog	1,283
Michael McConville		,,		90	1,284
Hugh Morrison	•••	"		7 Jan., 1878	1,285
Robert Liddle	•••	, ,,		7	1,286
William Smith			•••	95	1,287
James Jones		,,	•••	16 Tab "	1,288
John Gilroy		"		5 March, ,,	1,289
Edward Miall Moss		"	•••	17 April	1,290
William Charles Russell	•••	,,	•••	17 17	1,291
Tamas Daguer	•••	"		20 " "	1,292
George William Kendall	•••	,,	`	99 Mor	1,293
Tamaa Maamith	•••	"	•••	90 "' "	1,294
Labor Tuescon	•••	,,	•••	90 ″ ″	1,295
Robert Bain Davidson	•••	,,		& Tune	1,296
Frederick Leake	•••	"	•••	24, ,, ,,	1,297

RETURN of Pilotage Exemption Certificates issued during the Financial Year 1877-78.

No. of Certifi- cate.	Names of Masters to whom Ce have been issued.	rtificates	Name of Vessels for what have been is		tificates	Port included in Certificate.
3 95	Robert Burr		Omaha	•••		Auckland
396	Thomas Fernandez		Wave			Auckland, Lyttelton.
397	James Tozer	•••	Albion			Wellington, Lyttelton, Dunedin.
398	John Barnard		Isabelle	•••	•••	Wellington, Hokitika, Dunedin, Kaipara
399	John McKenzie		Kate McGregor			(Wairoa River only). Wellington.
400	William Hunt	•••	Excelsior			Wellington and Lyttelton.
401	John McDonald		Carlotta			Wellington.
402	Nathaniel Myers		Annie Hill		•••	Dunedin, Wellington.
403	Samuel Finlay	***	Ceres			Wellington.
404	Francis Morton Garraway	•••	Mazeppa	•••		Auckland.
405	William Hutcheson Manso		Canny Scot			Lyttelton.
406	Henry Downing Potter		Bobycito			Dunedin.
407	John Cowper		Rosannah Rose	•••		Dunedin.
408	Alexander Wynd		Sarah Pile			Wellington, Lyttelton, Kaipara.
409	Thomas Chandler		Exonia			Wellington, Kaipara (Wairoa River only).
410	Charles Thomas Paterson	•••	Pakeha		•••	Dunedin, Kaipara River.
411	John Anderson Mann	•••	Pet		•••	Lyttelton.
412	John Anderson	•••	s.s. Taranaki		•••	Wellington, Dunedin, Manukau, Lyttelton,
413	Thomas Clark Abrams		Ellerton			Picton. Auckland, Kaipara.
414	Henry Abbott		Jane	•••		Wellington, Lyttelton.
415	Daniel Robert Cooper		Island Lily	•••		Lyttelton, Auckland.
416	Thomas McGee	•••	s.s. Wellington	•••		Dunedin, Lyttelton, Wellington, Manukau,
417	George Henry Crone	•••	Hally Bayley			New Plymouth, Picton, Nelson. Dunedin.
418	James Carey		Glencoe	•••		Auckland.
419	David Buike		Minnehaha			Auckland, Kaipara, Wellington, Lyttelton.
420	John McLeod		Ethel	•••		Dunedin, Kaipara.
421	Taka Masakasak		Gael			Auckland, Dunedin.
422	Cornelius Fred Tucker	•••	F. W. Tucker			Wellington.
423	Harold Dillner	•••	Flora			Lyttelton, Kaipara (Wairoa River only).
424	Kenneth McKinnon		Pakeha			Dunedin, Kaipara.
425	George Alfred Marks	•••	Seagull			Wellington, Dunedin, Lyttelton, Bluff,
426	Edward Finlayson		Nonpareil			Russell, Auckland. Dunedin.
427	Thomas Rutter		Ellerton			Auckland.
428	Michael Vincent Harley		Wild Wave	•••		Wellington.
429	Frederick Highfield		Sarah Pile			Wellington.
430	Robert Kirk		Clio	•••		Wellington.
431	Frederick Melhuish Dicker	• • • • • • • • • • • • • • • • • • • •	s.s. Go-Ahead	•••		Wellington.
432	Jno. Cowan		Annie Hill	•••		Dunedin.
433	C1 1 1 1 1	•••	Anthons			Wellington.
434	T. 1 TT 1		Star of the South	•••	•••	Auckland, Wellington, Dunedin, Lyttelton.
435	TO - 1: 17	•••	Raymond		•••	Wellington.
436	D! 1 M. 7	•••	Samson	•••		Dunedin.
400	David McKenzie	***	Dampon	•••		2 410411

Return of Steam Vessels to which Passenger Certificates have been issued in New Zealand during the Financial Year 1877-78.

Name of Vessel.	Tons Register.	Horse- power of Engines.	Class of Certificate.	Nature of Engines.	Remarks.
Akaroa Alert Annie Milbank Antrim Angyle Balclutha Beautiful Star Bella Black Diamond Charles Edward City of Cork Clyde Devonport Dispatch Duncon Durham Easby Eclipse Enterprise Fairy Fairy Geelong Gemini Go-Ahead Hauraki	43 12 44 35 126 12 84 126 12 89 27 60 23 38 7 54 969 61 4 969 61 33 108 11 82	28 Screw 8 "" 24 Paddle 30 "" 50 Screw 50 Stern-wheel 30 Screw 12 "" 20 "" 60 "" 40 Paddle 32 Twin-screw 30 Paddle 12 "" 40 "" 10 Twin-screw 30 Screw 140 "" 10 Twin-screw 30 Faddle 15 "" 70 Paddle 7 Trin-screw 30 "" 9 Paddle 7 Twin-screw 15 "" 70 Paddle 7 Twin-screw 30 "" 9 Paddle	Sea-going River Extended River River Sea-going River Sea-going Extended River River Sea-going River Extended River River Sea-going River Extended River Sea-going	Compound Non-condensing Compound Non-condensing Condensing Non-condensing Non-condensing Condensing Non-condensing Compound Non-condensing Compound Non-condensing Compound Non-condensing	New Vessel.

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.
Hawea		•••	461	160	Screw	Sea-going	Compound	
	•••	•••	24	12	Twin-screw	Extended River	Non-condensing	
	•••	•••	159	65	Screw	Sea-going	Compound	New Vessel.
	•••	•••	97	45	Stern-wheel Screw	River Extended River	Non-condensing	Mew Aesser
	•••	••••	25 75	8 20			Compound	
	•••	•••	75 33	20 15	**	Sea-going River	Non-condensing	
Jane Williams Kennedy		•••	138	50	"	Sea-going	Compound	
7	•••	•••	39	15	"	Extended River	Condensing	
7.1	•••		133	30	"	Sea-going	Compound	
7 4 2	•••		5	120	\mathbf{Paddle}	0 0	_	New Vessel
La Buona Vent		•••	4	4	Screw	River	Non-condensing	Steam Launch
Lady Barkly			30	25	Paddle	Extended River	Condensing	
Lalla Rookh	•••		23	14	11	. **	Non-condensing	
Lilie			10	10	,,	River	,	
Lioness	• • •	,,,	26	60	_ ,,	Sea-going	Condensing	~ ·
Lily	•••	•••	4	6	Screw	River	Non-condensing	Steam Launch
Lily	•••		20	10	Twin-screw	Extended River	Condensing	
una.	•••	•••	247	45	Paddle	Sea-going	Condensing	
Lyttelton	•••	•••	86 6	25 14	Twin-screw	Extended River	Non-condensing	New S. Launch
Lyttelton Manaia	•••	***	62	30	Paddle	TATEGRACA IMPER	TIOT-COHOCHSHIR	ATOTI IS. LIBRUICE
Manawatu		•••	103	45	, -	Sea-going	Condensing	
Manawatu Maori	•••	•••	118	60	Screw		,	
Minnie Casev	•••		43	25	»	Extended River	Compound	
Mohaka			20	12	"		Non-condensing	New Vessel
Moa.			49	25	,,,	River	Condensing	
Murray	•••	•••	78	18	,,,	Sea-going	,,	
Napier	•••	•••	44	24	**	.,,	Compound	
Noko	•••	•••	15	9	77.77	Extended River	Non-condensing	New Vessel
Oregon	•••	•••	20	16	Paddle	River	a ",	N 171
Oreti	• • •	•••	117 28	43	Screw	Sea-going	Compound	New Vessel
Osprey	•••	•••	26 14	10 5	Paddle	Extended River River	Non-condensing	
Pearl Paninanta	•••	•••	31	18	Screw Paddle		**	
Peninsula Piako	•••	•••	8	8		**	"	New Vessel
riako Pioneer	•••	•••	18	10	Screw	37	,,	TICM I CODEL
D:	•••	•••	10	6	, and the second	"	"	Steam Launch
Portobello	•••		11	10	\mathbf{Paddle}	"	,,	
Pretty Jane	•••		101	35	Screw	Sea-going	Condensing	
D 4:			186	50	,,		.	
DJk		j	18	23	,,	Extended River	Non-condensing	
	•••	[13	10	\mathbf{Paddle}		,,	
Rangiriri	•••	•••]	30	30	Stern-wheel	River	,,	
Reynolds	•••	•••	10	14	Screw	**	,,	New Vessel
Riro Riro	• • •	•••	4 19	4 14	"	Extended River	,,	Steam Launch
Rosina Pataiti	•••	•••	17	15	"	Extended Miver	,,	New Vessel
Rotoiti Rotomahana	•••		138	45	"	Sea-going	Condensing	TIEM A GERET
Rotorua	***	•••	576	172	**	·	Compound	
Rowena			74	30	"	"	Compound	
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	"	77-437-3 721	Condensing	
Staffa	 h	}	40 175	25 45	,,	Extended River	Compound	
Star of the Sout		••••	175 67	30	"	Sea-going	Compound Condensing	
Stormbird Fainui	•••	•••	47	22	Paddle	Extended River	Non-condensing	
N 1	•••		58	20		River	1 - 1	
Fam O'Shanter			10	7	Screw		,,	
rangihua	•••		20	15	,,	"	» »	New Vessel
Taranaki			298	90	" "	Sea-going	Compound	, 0,,504
Taupo	•••		461	160	,,		,,	
Te Āroha			50	14	Paddle	River	Non-condensing	
<u>Titan</u>	•••	•••	21	55	,,	Extended River	Condensing	
Tongariro	•••	•••	39	10	"	53	Non-condensing	37
Tongariro -	•••	•••	62	25	37	 ;	*** · · ·	New Vessel
Fransit	•••	•••	12	10	933	River	Non-condensing	
Tui	•••	,,,	64 61	20 14	Screw Poddlo	Sea-going	Compound	
Waikato Wainara	•••	•••	61 70	14 30	Paddle Twin-server	River	Non-condensing	
Waipara Waitaki	•••	•••	228	90	Twin-screw Screw	Sea-going	Compound	
Waitaki Waitara	•••	• • • •	11	15		Extended River	Compound Non-condensing	
Wakatipu	•••	***	1,158	256	"	Sea-going	Compound	
Wallabi	•••		101	25	"		Condensing	
Wallace		•••	64	50	Paddle	** **	1	
Wanaka			277	120	Screw	"	Compound	
	•••		165	50	,,,	,,, ,,,	Condensing	
Wanganui				80				

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,
Tiri Tiri	2nd order dioptric	Fixed		White	Iron	Timber	1st Jan., 1865
Ponui Passage	5th ,,			Red, white, and green	Timber	,,	29th July, 1871
Portland Island	2nd "	Revolving	30"	White	,,	,,	10th Feb., 1878
Portland Island	"	Fixed	•••	Red; to show over Bull Rock	.		
Pencarrow Head	2nd ,,	Fixed		White	Iron	Timber	1st Jan., 1859
Manukau Heads	3rd ,,	١,,		,,	Timber	,,	1st Sept., 1874
Brothers	2nd ,,	Flashing	10"	39	,,		24th Sept.,1877
Brothers	"	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 "	,,	1	Red	Stone	Stone	2nd Jan., 1865
Nugget Point	1st ",	,,		White	,,	٠,,	4th July, 1870
Dog Island	1st order catadi-	Revolving	30"	"	"	"	1st Aug., 1865
Cape Foulwind	2nd order dioptric	ļ ,, i	30"		Timber	Timber	1st Sept., 1876
Farewell Spit	2nd "	"	1′	White, with red arc, over Spit end	. 11	,,	17th June, 1870
Nelson	4th ,,	Fixed	•••	White, with red are; to mark limit of anchorage	Iron	,,	4th Aug., 1862
Cape Maria van Diemen	lst "	Revolving	1′	White	Timber	ļ ,.	In course of erection
Cape Maria Van Diemen		Fixed		Red; to show over Columbia Reef	•••		,,
Akaroa	2nd ,,	Flashing	10"	White	,,	,,	,,
Centre Island	1st "	Fixed		White, with red over	,,	,, !	**
				inshore; dangerous		"	-·
Puysegur Point	1st ,,	Flashing	10"	White	,,	,,	**

RETURN showing the Number of Masters and Mates examined during the year ended the 30th June 1878, distinguishing the Number of Successful and Unsuccessful Candidates.

					AUCKLAND.			Wellington.			Dunedin.			!	TOTALS.		
CLASS OF CHETIFICATE.						Failed.	Total.	Passed.	Failed.	Total.	Passed.	Failed.	Total.	Passed.	Failed.	Total.	
Foreign-going Certificates Home-Trade Certificates River Steamer Certificates		•••	•••		23 6 5	15 1 	38 7 5	11 30 	10 8 	21 38 	20 4 3	3 1 1	23 5 4	54 40 8	28 10 1	82 50 9	
Totals	•••	•••		•••	34	16	50	41	18	59	27	5	32	102	39	141	

RETURN of Wrecks on which Inquiries have been held under the Enquiry into Wrecks Act, or for which Casualty Returns have been received, between the 1st July, 1877, and the 30th June, 1878.

							a net our	m, , 101	rse with roll, and the south suite, 1010	101 (amr	6		
Date	Name of Vessel;	Ė	ster age.	Num	Number of	Nature	Nature	Number	Place where		Wind.		
of Casualty.	Age and Class when known.	. July .	ізэЯ ппоТ	Crew.	Passen- gers.	of Cargo.	of Casualty.	Lives Lost.	Casualty happened.	Direction.	Force.	Finding of Court of Inquiry.	Name of Master.
1877. July 8	Š	Schooner	69	:		Bullast)	Collinia					Collision caused by the light on board the	(Peter Doile.
	Isabelle,	*	129	:	:	Coal	partial loss	:	Wellington Harbour	S.S.E.	Strong breeze	being obscured as the "Stormbird" ap-	\sim
,, 10	South	2	139	18	:	Ballast)						proached Casualty caused by carelessness of those on	Francis Holmes.
	34 years; Adah,	Ketch	29	es	-	$\left\{ General \left\{ \right. \right\}$	Collision; partial loss	:	funle to westward of Ponui Passage light	W.S.W.	Light	board the "Adah," and the "Southern Cross" not slowing her engines when	\sim
" 14	Jessie	Schooner	93	G	7	Copra	Stranded;	:	Rabi Island, Fiji Group	တင်	Fresh breeze	she lost agut of the "Adah s" light	John Urquhart.
" 14	Meri, 8 years		237	10	:	Timber	Stranded; total loss	:	4 of a mile outside outer North Head of	Calm	:	Casualty caused by the wind suddenly falling, and the heavy swell rolling in	George Loverock.
" 17	Canterbury		34	ಣ	:	Timber	Stranded;	:	Hokianga Harbour Cullen Point, Port of	÷	:	causing the chain to part Vessel at anchor; during night the tide	Louis Pike.
" 17	Fairlie, 114 years	2	177	4	:	N.Z. pro- duce	Stranded; partial loss	:	On a patch of rocks off Rotaro Islands, Wai-	Бij	Moderate	wung her round on to the shore Casually occurred through an accident	Gregory Seymour Norris.
									neke Fassage, Auck- land				
Aug. 3	Taranaki, s.s., 12 years	2	327	22	21	General	Collision; total loss	:	West of Pigeon Bay Entrance, nearer to	E.N.E.	Light breeze	"Quiver" considered to blame for not attempting to get out of the way of the "Turanuki", when she was seen ap-	John Griffiths.
	Quirer,	Ketch	20	61	:	Ballast	ressel		Port Levy		0	proaching. "Quiver" was not seen by "Taranaki" until collision, and it is	
9	7 years Beucleuch,	Schooner	99	13	:	Stores	Stranded;	7	N.E. extreme end of	Þį	Hurricane	doubtful if she had any light burning Wreck caused by a very heavy gale	<u> </u>
. 7	b years Luna, p.e.,	*	247	8	:	(sealing) Coal	rotal loss		Macquarite Island In Wellington Har-			causing cables to part during the night Collision caused by the "Luna" not keep-	Bezer.
	13 years Herald,	2	53	70	:	Ballast (Collision; partial loss	:	bour, about 800 yards from wharf	N.W.	Strong breeze	ing out of the way of the "Herald," in accordance with section 15 of the Regu-	
7	Queen Bee,	Barque	726	24	30	General	Stranded;	-	Farewell Spit	:	Fresh breeze	Master adjudged guilty of grave default	John Sayes Davies
	10 Jeans, At 0 Jeans,											ascertaining his position when so near	
								•				ter's certificate suspended for three	
												Going, second mate, was suspended for	
												watch at the time of the stranding and	
												did not use proper precautions to keep	
												was in as grave an error as the master	
												as to the navigation of the ship; the Court, however, did not suspend his	
						_						certificate as he was not responsible, being acting under the master's orders.	
	The Bos	rd of Trade h	ave rode	ned the	namod of	* The Board of Trade have reduced the neriod of sparengion of Cantal	- 6	's sertifice	Davida's sartificate from three years to one	- 100		the south State draine the newical of succession	_

" The Board of Trade have reduced the period of suspension of Captain Davies's sertificate from three years to one year, and have granted him a mate's certificate during the period of suspension.

John Graham.	Henry George Waller.	John Cowell.	William Smith	Stand. Robert Locke Owen.	John Rush.	Alexander Chansbers.	Colin Campbell.	John Grubb.	Archibald Bell.	Joseph Silva.	John Fitzgerald Donovan.
Master adjudged guilty of culpable negligence in not paying greater attention to the navigation of his ship, particularly with reference to the course and distance run, and not taking proper coundings. His certificate was suspended for two years. First mate, George Frederic August Carl von Shoen, was censured for not having paid proper attention to the		The loss of the ressel was caused by the tiller-lines giving way	Vessel struck and capsized when crossing	Casualty caused by the current of the	Casualty caused by the wind suddenly falling when the vessel was crossing the	Casnalty caused the thick of the which was towing the "Clio," being washed into the North Spit by the current and ocean set; and before she could get off the "Clio," was washed	Casualty caused by the "Pelican" touching on the bar while in tow of the	cush Linness Casualty reported to have been caused by the master attempting to cross the bar when signal "Put to sea" was flying. Action of master considered justifiable, as the vessel was in an unseaworthy con-	duton, and a gue was rising The casualty was caused by a heavy sea Archibuld Bell. breaking suddenly on board	The loss of the vessel was caused by the force of the wind causing her to drag on to the rocks, where she lost her rudder; and, becoming unmanageable,	became total wreck Casually caused by the tug getting ashore
Fresh breeze	Moderate gale	:	Light air	Light	÷	Light	Gentle breeze	Stiff breeze	Whole gale	Very hard	Calm
N.W.	တ်	S.S.	Easterly	E.N.E.	N.E.	Westerly	S.W.	W.S.W.	S.W.	W.S.W.	:
About a mile north of the Turakina River, Cook Strait	Sunken rock about 3 of a mile south of Trio Islands, Admi-	Midway between North Spit and Mussel Rock, near	Kaglan Entrance to Wanga-	North Beach, Port of Greymouth	Mouth of Mohaka River, Hawke's Bay	North Spit of Hoki- Westerly tika River	North Spit of Hoki- tika River	S.W. bank of Waitara River, 100 yards inside bar.	20 miles off Brighton, West Coast	Blind Bay, Great Barrier Island	North Beach, Grey- mouth
i	:	63			:	:	:	:	¢1	:	:
Stranded; total loss	Stranded; partial loss	Stranded; foundered; totalloss	Stranded and capsized;	Stranded;	Stranded; total loss	Stranded; partial loss	Stranded; partial loss	Stranded; partial loss	Damage done by sea breaking on board;	parent loss Stranded; total loss	Stranded;
Ballast	Timber	N.Z. produce and live stock		General	Ballast	N.Z. produce	General	Coal	N.Z. produce	Ballast	Produce
i	:	:	-	63	:	:	:	:	H	:	:
4.	က	ro	4	01	63	:	9	4	ro	6	m
493	29	27	15	189	Under 15	81	74	40		23	98
Barque	Schooner	•	Cutter	Schooner	Ketch	<u>.</u>	Schooner	•	<u>.</u>	Cutter	Ketch
Robina Dunlop, 34 years	Colleen Bawn, 14 years	Echo, 3 years	Lionel, s.s.,	St. Kilda, 9 years, A1 at	Mary Ann Hudson, 8 years	Clio, 7 years	Pelican, 3 years	Merlin, 7 years	Zior, 5 years	Miranda, 15 years	Argus, 23 years
Ang. 13	,, 18	, 18	,, 20	,, 23	Sept. 4		,, 12	. 15	" 16	" 16	3, 25

&c.—continued.
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have
Inquiries
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on
Wrecks
oţ
RETURN

					TAT	INETURN OF	W FECKS OF	WEIGH	W FECKS On which the united have been note,		CC. COMMENTER	6.4	
9	Name of Vessel;		191 .63	Number of	r of	***************************************		Number	Ē		Wind.	•	;
Casualty.	Age and Class when known.	Rig.	Regis Tonna	Crew.	Passen. gers.	Cargo.	Casualty.	Lives Lost.	Casualty happened.	Direction.	Force,	Finding of Court of Inquiry.	Name of Master.
1877. Sept. 29	Sarah Pile, 13 years	Brigantine	116	6 0	1	Hewn Timber	Stranded; partial loss	÷	Buller Bar, East Bank, Westport	N.N.W.	Fresh breeze	Casualty caused by master crossing the bar before the signals were put up for	David Bissett.
Oct. 11	Lizzie Guy,	Schooner	93	:	:	Timber	Stranded;	:	North Spit, Hokitika	S.W.	Moderate breeze	Casualty caused by tug-rope becom-	Henry Priest.
" 14	o years Jane Elkin 12 years	Ketch	22	က		Timber	Stranded; total loss	:	Kiver, westland Patea River bar	S.S.E.	Moderate breeze	Casualty caused by vessel striking on a boulder in the trough of the sea when	Peter Grey Lealie.
,, 18	Torea,	Schooner,	22	9	:	Timber	Stranded;	:	Off Cape Campbell	N.N.W.	Nearly calm	crossing races bar Casualty caused by baffling winds and the	John Grundy.
Supposed about Oct. 24	Clan Alpine, 1 year	Schooner	.40	4	:	N.Z. pro- duce		supposed 4 (all hands)	Supposed about S.E. of Kaikoura Penin-	i	Ē	Vessel supposed to have capsized in a heavy squall	James Smart.
Nov. 1	Emma, 10 years	Barque	285	11	H	Sugar	Masterand one seaman washed	Ø	miles Lat. 42° 7′ S., long. 128° 4′ E.	S.W.	Whole gale	A heavy sea struck the vessel, and washed the Captain and an A.B. overboard	William Mangles Stockley.
4	County of Peebles, 2 years Lucie Marie	Ship	1614	33	36	General >	overboard Collision; partial damage	:		S.W. by	:	The County of Peebles came into collision with a French resel, the "Lucie Marie," in the English Channel, no light being	William Fordyce.
9 "	Midge, 23 years	Cutter	17	67	:	General merchan-	Stranded; partial loss	:	Isle of Wight Arrow Rock entrance of Nelson Harbour	Μ.	Light air	Vessel enried on to the rock by a sudden puff of wind when sweeping out of the	Henry Eure.
,, 10	Waihopai, 10 years	Schooner	4	တ	:	aise Timber	Stranded; total loss	:	Reef near to Pencarrow Head, entrance to	N.W.	Half gale	Casualty caused by vessel missing stays when entering harbour	Peter Curron.
" 17	Empress of Chins, 3 years	Barquen- tine	255	G.	:	Ballust	Stranded; partial loss	:	Wellington Harbour South Head, Lyttel- ton Harbour	Baffling	i	The casualty was caused by a sudden lull in the wind when the vessel had no steerage on her, when the swell of the	Alfred Griggs.
, 20	Dido,	Cutter	36	4	81	Machinery	Stranded;	:	Totaranui Rock, in	S.E.	Strong breeze	sea carried her on to the rocks. Vessel missed stays, and went on to the	Alexander McFar-
23	Dolly Varden, 5 years	Cutter	20	63	:	Ballast	Stranded; Fartial	:	Tewai Point, entrance to Bluff Harbour	W.S.W.	Fresh gale	Casualty caused by ressel, when very light, attempting to beat up the harbour in	<u> </u>
Dec. 9	Colleen Bawn, 15 years	Schooner	53	က	:	Timber	Stranded; partial loss	:	South Spit, at entrance of Wanganui River, Cook's Strait, West	W.N.W.	Fresh	squain weather for and suddenly Casualty caused dropping, and then veering round to another quarter, while the vessel was	Henry Waller.
,, 22	Craig Ellachie, 15 years	Brig	226	6	H	Coal	Stranded; total loss	:	Coast, N.I., N.Z. Timaru, about a cable's length north of Go- vernment landing service	E.S.E.	Gale	enfering the river Casualty caused by cable parting through Magnus S. Merestress of weather	Magnus S. Meredith.

								29	•							H.—12	•
William Hunt.	Alexander George Armstrong.	Robert Hughes.	John Brown.	William Atkins	Fayne. John Carter.	James Stephens.	James Carey.	Louis Pike.	George Jackson Hughes.	Robert Brebner.	Peter Johnson.	Hone Raniera,	Daniel. Walter Pottinger.	William Smith.	George Romeril.	√ Viomas McGee	יייים אייים
Vessel left Timaru for Wellington on 12th January, 1878, and has not since been	heard of Wreck caused by neglect of the Master in not seeing that a proper look-out was kept; his certificate was suspended one month, and he was ordered to pay costs	of inquiry Casualty caused by negligence on the part of the Master, whose New Zealand Cer- tificate of Service, No. 2062, was sus-	pended for six months The anchor came home when the vessel	was anchored close to the beach Casualty caused by force of wind causing	anchors to drag Casualty caused by stress of weather	Stranding caused by insufficient depth of water	Casualty caused by force of wind causing the moorings to which the vessel was	causing anchors to drag while the vessel	where the anction in Charlet Day , Casualty caused by vessel missing stays and getting among kelp while beating out of Waitangi Bay, Chatham Islands	Casualty caused by delay in letting go the anchor when it was found that the vessel was making no headway owing to the	Cusualty caused by hurricane	Casualty caused by vessel being left at anchor without any one on board	Loss of wheel, &c., caused by shipping heavy sea	Casualty caused by cable parting through	Casualty caused by error in judgment of George Saunders, second mate of the	"Wellington," who held no certificate, in starboarding his helm and endeavouring to pass ahead of the "Aurora." Second mate of "Wellington" ordered to pay cots of incurve	frankov so snoot full or
:	Moderate breeze	Strong gale	Strong	Gentle breeze	Strong breeze	Moderate	Moderate gale	Strong gale	Moderate gale	Gentle breeze	Hurricane	Whole gale	Whole gale	Moderate gale		Light	_
:	W.S.W.	W.N.W.	s.w.	N.E.	N.E.	N.W.	N.E.	S.E.	N.W.	Westerly	N.E.	N.W.	W.N.W.	N.E.		W.N.W.	•
⋖	Wellington Astrolabe Reef, off Molili Island, Bay of Plenty, East Coast, New Zealand	South side Moeraki Beach	West side of Malden	Island Amuri Bluffanchorage	At sea, 156° East long., 44° South lat.	South Beach, Waipara River, Poverty Bay	Rocks at Gore Bay	Okakuri Bay, Tory Channel	On a reef of rocks about one-third mile from shore, opposite Custombouse, Waitangi	Bay, Chatham Islds. Rocks near Maori kaik, in Now River	South Pacific Ocean, a b o ut 17° 20' S.,	Beach near Arrow Rock, at entrance to	Lat. 44° 40′ S., long. 74° E.	North Tata Island, Massacre Bav	On o o w Cheshotte's	of Boot Cove	
Supposed	÷	:	:	:	:	:	÷	:	÷	:	1	:	-	:		:	
	total loss Stranded; total loss	Stranded; partial loss	Stranded;	Stranded;	Loss of bob- stay, bow-	sprit, &c. Stranded; damage	Stranded; total loss	Stranded; total loss	Stranded; partial loss	Stranded; partial loss	Abandoned,	Stranded; total loss	Loss of wheel and mizzen-top-	mast Stranded;	Collision;	Collision; slightly damaged	•
Ballast	New Zea- land pro- duce	\mathbf{Wool}	Guano	Ballast	General	Timber	Timber	Ballast and few pkgs.	General ballast	Sawn timber	Timber	:	General	Limestone	Ballast	 	1
:	:	:	:	:	231	:	:		i.	:	:	:	;	:	:	16	
ø	ro	တ	=======================================	တ	40	အ	∞	က	~	တ	13		15	Ø	10	9	
92	99	42	281	35	974	31	159	42	133	25	532	10	569	ō.	22	279	
Schooner	3	Ketch	Barque	Barge	Ship	Cutter	Barque	Schooner	Brigantine	Ketch	Barque	Ketch	Barque	Ketch	Schooner	Steamship 279	,
Excelsior, 12 years	Nellic, 1 year	Huon Belle, 14 years	Oriental,	Excelsior,	Gainsborough,	Ness, 2 years	Glencoe, 30 years	Canterbury, 23 years	Omaha, 4 years	Palmerston, 3 years	Kedar, 14 years	Lily of the Wave	Kentieh Tar, 14 years	Mermaid, 23 years	Aurora, 10 years	Wellington, s.s.	ı
1678. Jany. 12	13	, 16	,, 24	Feb. 14	" 19	. 21	Mar. 2	4		24	April 1	May 11	,, 31	" 11	, 15	, 15	
	5.—]	H. 12.															

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

Electronic Fig. Electronic Electro		Nema of Vessel		-	, m	0,00			Virmbor			Wind		
Electricis, Brigantine 85 7 Timber Country Late Bareatwork, Lyttel System Country Barque 424 14 General Stranded: Timber Country Barque 424 14 Gene	Date	also,	, a	TSJE 038:			Nature	Nature	Jo L	Place where			Binding of Court of facuity	Name of Master.
Exicerynies, Brigartine S5 7 Timber Onlision caused by heavy gale. General Annaer Harbour Onlision caused by heavy gale. General Gaunge Coesa Bird, Barque 224 14 General Streaded; Free Interpretation of the control of	Casualty.	when known.	i	igəA ngoT		Passen- gers.		Casualty.	Lost.	Casualty happened.	Direction	Force.		
Amongala, " 133 7 Gueral change to namer Harbour change of the control of the	1877. May 16	Enterprise,	Brigantine	85	7	:	Timber		<u> </u> :	1	S.W.	Hurricane	Collision caused by heavy gale.	George Mundle.
Omala, Johnson, 4 years ", 133 7 ", equeral Collision: Johnson Lawer Branded; Liverpool, 1st Class ", partial Rughest, Appearance ", partial Rughest, Appearance ", partial ", partial </th <td></td> <td>12 years</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ton Inner Harbour</td> <td></td> <td></td> <td></td> <td></td>		12 years								ton Inner Harbour				
Aun Gauchles, Barque 424 14 General Stranded; Te Wais Point, Bluff S.W. by Strong gale Condening the helm to be put up when the form of annulus struck the vessel and the port-street on the case and the port-street of the condening the helm to be put up when the condening the helm to be put up when the condening the helm to be put up when the partial loss and tree point of the case and the case and the port-street on the case and the case on the case of the case of the case on the case of the ca	,	Omaha, 4 years	2	133	4	:		Collision; partial	:	Breastwork, Lyttel- ton Inner Harbour	S.W.	Hurricane	Collision caused by heavy gale	George Jackson Hughes.
Am Gambles, 16 years Barque 424 14 General Lotal loss Stranded; Livepool, 1st Class Casualty caused by the lam to be put up which the porting the lam to be future that the put print the partial loss of the porting the lam to be future and laming and the sea catching the lam to be future and laming and the sea catching the wind veering alead for six months. Strong gale Cusualty caused by the wind veering alead point point was the porting and the sea catching the wind veering alead point was the porting and the sea catching the vind veering alead point wind veering alead point of NAZ. Strong gale Casualty caused by the wind veering alead point wind veering alead point of NAZ. John Moore and the porting and the porting and the sea catching the vind veering alead point wind veering alead and the sea catching the vind veering alead and the sea catching the vind veering alead and the porting and the sea catching the vind veering alead and the sea catching the vind veering alead and the porting and the vind veering alead and the porting and the catching the vind veering and the vind veering alead and the vind veering and vind veering and veering	_	W. C. Wentworth, 23 years	Barque	315	G	:		0	: 	Breastwork, Lyttel- ton Inner Harbour	S.W.	Hurricane	Collision caused by heavy gale	David Cochrane Law.
Ocean Bird, Ketch 33 3 Timber Grounded; 250 yards from expended to the partial loss partial loss and the can catching the rease of weather and having the cancelling the rease of weather and the cancelling the rease catching the rease of weather and having the spirit shall be reased to the spit. Helen, Schooner 18 years Schooner 18 fraint total loss and the cancer of the spit. Andy, 1878; not since been heard of any partial shall be reased by the wing and same and same and the cancer catching the rease catching the rease of weather and both which in the spit and the spit		Ann Gambles, 16 years Liverpool, 1st Class	Barque	424	14	i		Stranded; total loss	-	Te Wais Point, Bluff Harbour	S.W. by		Casualty caused by default of master in ordering the helm to be put up when the squall struck the ressel and the port-	John Morgans.
Helen, Schooner 23 1 Ballast Foundered; Kiver, at the bur 16 years Hydrabad, Ship 1350 32 2 Railway Stranded; On bench, about 14 years Brigantine 68 6 Grain Stronded; Grain Schooner 75 6 1 Cattle, Supposed Between argon argon cargo		Ocean Bird, 7 years	Ketch	83	· m	:	Timber	Grounded; partial loss		250 yards from ex- tremepoint of North Spit, Waimakariri	S. to S.W.		anchor was let go. Master's certificate was suspended for six months.* Casualty caused by the wind recring ahead and the sea catching the ressel on her quarter and heaving her on to the spit	John Moore.
Hydrabad, Ship 1350 32 2 Railway Stranded; Grant of Horo- 24 Hydrabad, 13 years 13 years 25 Eailway Stranded; Grain 26 Lady Don, Brigantine 68 6 Grain 27 Examples Stranded; Grain 28 Lady Don, Hinemoa 29 Eailway Stranded; Grain 20 Examples W. Storm 20 Examples When uar River. Cook Strait 20 Examples W. S. W. Galo 20 Examples When uar River. Cook Strait 20 Eady Don, Hinemoa 20 Examples When uar River. Cook Strait 20 Eady Don, Henna River. Cook Strait 20 Examples When uar River. Cook Strait 20 Examples When uar River. Cook Strait 21 Eady Don, Hinemoa 22 Railway Stranded; Garain Galo 23 Examples We en uar River. Cook Strait 24 Examples When uar River. Cook Strait 25 Eady Don, Henna River. Cook Strait 26 Eady Don, Hinemoa 27 Examples When uar River. Cook Strait 28 Ead of Waikato 29 Eagh of Waikato 20 Examples of weather and Rivin Galo 27 Eagh of Casualty caused by stress of weather and Rivin Galo 28 Eagh of May, 1878; not since been heard of argon cargo	June 16	Helen,	Schooner	23	-	:		Foundered;		Kiver, at the bar Near the Needles,	S.W.	Stiff breeze	Casualty caused by stress of weather	Frank Gomez.
Lady Don, Brigantine 68 6 Grain Stranded; Just inside South 114 years 114 years Hinemos Schooner 75 6 1 Cattle, sheep, and general cargo		Hydrabad, 13 years		1350	32	81	Railway Plant	Stranded; total loss		On bench, about 13 miles N. of Horowhenna River	×.	Storm	Inquiry still pending	Charles Holm-wood, jun.
Hinemos Schooner 75 6 1 Cattle, Supposed Sup		Lady Don, 11th years	Brigantine	89	9	:	Grain	Stranded; total loss	:	r Strait inside d of W	W.S.W.	Galo		
	:	Hinemos.	Schooner	75	9	H	Cattle, sheep, and general cargo		Supposed all hands	Kaver Supposed Auckland ar	d d	known	Vessel left Auckland for Samos on 10th May, 1878; not since been heard of	

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