Session II. 1906. ZEALAND. NEW

MARINE DEPARTMENT.

(ANNUAL REPORT FOR 1905-6.)

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

My Lord,— Marine Department, Wellington, 20th August, 1906.

I do myself the honour to transmit herewith, for Your Excellency's information, the report of the Marine Department of the colony for the financial year ended the 31st March last. I have, &c.,

J. A. MILLAR, Minister of Marine.

His Excellency the Right Hon. Baron Plunket, Governor of New Zealand.

Marine Department, Wellington, 30th May, 1906. SIR,-I have the honour to make the following report on the work of this Department during the financial year ended the 31st March last.

Shipping and Seamen.—"The Shipping and Seamen Act Amendment Act, 1905," was assented to

by His Majesty on the 16th February last, and it came into force on the 19th ultimo, on which date the Governor's Proclamation notifying the King's assent was published in the New Zealand Gazette. The extension of the time within which applications for masters' certificates of service could be received, provided for by this Act, has enabled the Department to issue a large number of these certificates to persons who had the qualifying service provided for by section 27 of the Act of 1903, but who did not apply for them within the time prescribed by that Act, and thus hardship has been avoided. When making the extension of time the Act also provided that the certificates of service granted under it must be for vessels of similar class, tonnage, and trade to those in which the applicants had performed their qualifying service, as the intention of the Act of 1903 was that they should only receive these certificates, which are given without examination, of such value as to entitle them to continue in similar employment to that in which they were engaged before the alteration of the law required their vessels to carry certificated masters. If they require anything more than this they can obtain certificates of competency by passing the prescribed examinations. The amending Act also provided for the issue of certificates of service to engineers of pleasure-yachts, missionary-ships, and fishing-boats, and of certificates of competency to second mates of home-trade ships. Certain other necessary amendments were made in the principal Act by the amending Act of 1905.

Engagement and Discharge of Seamen.—"The Shipping and Seamen Act, 1903," having made pro-

vision for a Registrar of Seamen, who is to keep a register of all persons who serve in ships subject to the Act, the Secretary of Marine has been appointed to that position; and all expired articles of agreement are now sent to his office to enable the register to be kept.

Appended is a return showing the number of seamen engaged and discharged. This work has been satisfactorily performed during the year. In pursuance of the power given by "The Shipping and Seamen Act, 1903," the Customhouses at all the ports except Auckland, Wellington, Lyttelton, and Dunedin have been declared to be Mercantile Marine Offices, and the principal officers of Customs have been appointed Superintendents of Mercantile Marine. This was not necessary at the four ports named above, as there are Mercantile Marine Offices and Superintendents separate from the Customs. Authority rity has been given to the Superintendents at the four principal ports to attend on board for the purpose of sanctioning the engagement and discharge of whole crews in cases where the vessels are lying in the streams or at a wharf a good distance from the shipping office, and a special charge is made for their attendance on board in such cases. With this exception, all engagements and discharges are required to be effected at the shipping offices. A return showing the amounts paid to disabled seamen under section 119 of the Act is also appended.

Prosecutions have been instituted and fines imposed for breaches of the law regarding seamen in the following cases—viz., the Master of the s.s. "Ayrshire" for carrying four seamen without putting them on the articles; the master of the schooner "Lily" and the master of the s.s. "Storm" for a similar breach of the law in respect of one seaman in each case, and the master of the s.s. "Sterling"

for employing an unqualified fireman.

Proceedings were taken against the master of the barque "Onyx" for proceeding to sea from Wellington without a certificated second mate, and he was fined £20 and costs. A prosecution was also instituted against the master of the ship "Loch Garve" for a similar breach of the law, and he was fined £10 and costs. On appeal to the Supreme Court the conviction was quashed on the ground that the Act did not make it an offence for the master to go to sea without the officers required by it. In both these cases the officers required by the Act had been shipped, otherwise the vessels would not have obtained their clearance, and the second mates left between the time of the issue of the clearance and the time of the vessels sailing. In order to prevent cases of this kind occurring in future, provision was made in "The Shipping and Seamen Act Amendment Act, 1905," that the master or owner of any ship who fraudulently engages or suffers to be engaged any duly certificated master, mate, or engineer to serve for the purpose only of enabling the ship to clear, and not for the purpose of the whole voyage, and every such officer who so engages himself, commits an offence; and the fact of quitting the ship before the commencement of the voyage is to be evidence of having been fraudulently engaged unless the contrary is shown. As this Act is now in force, similar cases will in future be punishable by fine.

The report of the Principal Examiner of masters and mates is appended hereto. For certificates of competency, 275 persons passed their examinations and 91 failed. Of those who passed 137 were masters, mates, and engineers of seagoing ships; 81 were masters and engineers of steamships plying within restricted limits; 5 were masters of fishing-boats and of cargo-boats up to 25 tons register; 1 was master of a sailing-vessel up to 25 tons register carrying passengers within restricted limits; 21 were engineers of seagoing ships propelled by oil-engines; and 30 were engineers of similar vessels plying within restricted limits. Certificates of service have been issued to 55 masters under section 27

of the Act of 1903.

It having become necessary to amend the regulations for the examination of masters and mates, advantage is being taken of the opportunity to consolidate them. Provision will also be made in them for the examination of second mates of home-trade ships, which is a new grade of certificate provided for by "The Shipping and Seamen Act Amendment Act, 1905." Certain other alterations which are being made in the regulations are described in the Principal Examiner's report.

Tables showing the names of persons who have received certificates, and the classes and grades

of the certificates issued, are appended.

Registration of Shipping.—Appended are tables showing the vessels registered in New Zealand,

and the number of men and boys employed.

Survey of Ships.—During the year certificates have been granted for 293 steamers, 34 oil-engine vessels, and 7 sailing-vessels. A return of such vessels is appended hereto. In addition to these a large number of vessels have been surveyed for seaworthiness. As regards sailing-vessels, the law only provides for the compulsory survey of those engaged in the intercolonial trade; but I think that it would tend to the safety of life and property if the sailing-vessels engaged in the coastal trade were subject to periodical survey. At present they do not come under any official inspection unless there is reason to believe that they are unseaworthy, and then a special order of detention for survey has to be made in each case.

New regulations for the adjustment of compasses have been made. These provide that the compasses of every foreign-going, intercolonial, and home-trade vessel shall be properly adjusted by a licensed adjuster, or by the master of the ship. The compasses of home-trade vessels, unless commanded by masters who hold foreign-going master's certificates or who have passed the compass syllabus, are to be adjusted annually by licensed adjusters. Every foreign-going, intercolonial, and home-trade ship is to be provided with a compass-error register-book, which is to be examined by an Inspector who must have nautical experience and possess a foreign-going master's certificate. The Superintendents of Mercantile Marine at Auckland, Wellington, Lyttelton, and Dunedin have been appointed Inspectors for this purpose.

Regulations are being prepared under section 220 of "The Shipping and Seamen Act, 1903,"

respecting the loading and stowage of ballast on ships.

Prosecutions have been instituted and fines imposed in the following cases: viz., the master of the s.s. "Cygnet" for not keeping the life-belts in a condition fit for use, and the master of the barque

"Quathlamba" for not keeping the life-saving appliances in proper condition.

Coastal Dangers.—The services of H.M.S. "Penguin" for the work of surveying the coast have been discontinued, and it is proposed that the work shall be taken up next spring by this Department. Inquiries are now being made for a suitable vessel, it being proposed to charter one for the purpose. An officer with experience in work of this nature should be obtained to have charge of the survey. It may be possible to obtain such an officer who has carried out similar work elsewhere and has at the same time had command of the surveying-ship. If this can be arranged the work would no doubt be carried out more economically and efficiently than would be the case if the surveyor was not also master of the surveying-ship.

Captain McDonald, of the s.s. "Waikare," having reported that Bare Island is not correctly charted, Captain Bollons, of the s.s. "Hinemoa," has taken observations, which show that the island lies one mile from the nearest point of the mainland, but that the contour of the coast-line in its vicinity is not accurately laid down. Both Captain Bollons, and Captain David, of the s.s. "Corinthic," agree

in making the bearing between Cape Kidnappers and Bare Island to be S. 1° E.

The New Zealand Nautical Almanac for 1906 was issued in December last, and there has been a good demand for it. The A, B, C, and D Tables, prepared by Captain Blackburne, Nautical Adviser to the Department, have been issued, and are now on sale in the colony and Great Britain. The publication has been well received and very favourably noticed in the Press.

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Wages and Effects of Deceased Seamen.—The estates of sixteen seamen, amounting to £144 0s. 5d., have been dealt with during the year, and the sum of £104 14s. 7d. has been paid to relatives and other

claimants. A list of the estates is appended hereto.

Wrecks and Casualties.—Attached are tables showing casualties to ships, and an analysis thereof. Those on the coasts of the colony numbered 55, representing 29,601 tons register, as compared with 64, of 32,536 tons register, in the previous year. The total wrecks within the colony were 6, of 1,686 tons register, as compared with 10, of 1,182 tons in the previous year. The number of lives lost was 22, as compared with 8 last year. Of these 21 were within the colony—viz., "Elsie," s.s., 1; "Echo," scow, 1; "Hawk," scow, 1; "Anna," ketch, 2; "Kapanui," s.s., 6; "Oban," scow, 3; and "Moana," scow, 7.

Provision was made in "The Shipping and Seamen Act, 1903," for rehearings and appeals in cases of inquiries into wrecks and other shipping casualties, and regulations have been made as to the procedure in such cases.

Weather-forecasts.—Captain Edwin has continued the work of forecasting the weather and issuing weather-reports and storm-warnings.

Government Steamers.—The "Hinemoa" carried out the work of attending to lighthouses and overhauling, cleaning, and relaying buoys until the middle of October last, when she was laid up for repairs in Auckland, and remained in the contractor's hands until the end of January. She is now in good condition. She made a trip to the Auckland, Campbell, Antipodes, and Bounty Islands in February and March last for the purpose of searching for castaways and examining the depots which are maintained on those Islands. The depots at Port Ross, on the Auckland Islands, and at Perseverance Harbour, Campbell Island, were rebuilt. When the "Hinemoa" called at the Auckland Islands in May last year she picked up, in Carnley Harbour, the master and crew of twenty-one men belonging to the French barque "Anjou," which was totally wrecked near Bristow Point on the 5th of the previous February. The men found the depot for castaways at Carnley Harbour, and lived there until picked up by the "Hinemoa," using the stores put there for use in such circumstances. They also used some of the stores from the depot at Norman Inlet, to which they were directed by notices which were posted up in the Carnley Harbour depot. During the time the "Hinemoa" was undergoing repairs the "Tutanekai" was put into commission to carry on the lighthouse and other work. Besides the ordinary work on the coast, she visited the Kermadec Islands, and examined the depots there, rebuilding that on Curtis Island.

Lighthouses.—The keepers have carried out their duties in a satisfactory manner, and all the lights have been properly exhibited. They have been inspected by Captain Bollons when calling at them with stores and oil. During the year I have visited and inspected those at Godley Head, Jack's Point, Moeraki, Taiaroa Head, Cape Saunders, Nugget Point, Waipapapa Point, Dog Island, Centre Island, and Puysegur Point, which were all found to be in good order and well kept.

The new tower at Cape Campbell has been completed, and the light was shown from it for the first time on the 15th October last. A new workshop has been built at this station, and repairs executed to the dwellings. The condition of the station is now such that, with the exception of the flagstaff which is to be erected shortly, no further work of importance should be required for some years. The following works have been executed at other stations:—

Cape Maria van Diemen: A new ladder at the tower has been erected.

Kaipala Head: A new cart and coal shed have been erected, and owing to the shifting sand being piled up round the landing-store by the wind it had to be moved to a better position.

Akaroa Head: New rings and rollers have been fitted to this light, and it is now working smoothly

and well. The principal keeper's house has been repaired.

Jack's Point: A Matthews incandescent burner has been procured for this light, and also the necessary apparatus to make it an occulting light. It is necessary that this should be done, as it is found that at present ship's lights and other lights in the neighbourhood are liable to be mistaken for it. The work of erecting the apparatus and new burner is now being carried out by Mr. Scott, the Department's lighthouse artificer.

From reports which have been received it would appear to be advisable to adopt this kind of light generally for the New Zealand lighthouses. The oil is vaporised and produces a very brilliant light at a less expenditure of oil than the ordinary burners.

Moeraki: Wash-houses have been erected.

Taiaroa Head: New outbuildings have been erected.

Nugget Point: A schoolhouse for the keeper's children has been erected. A new house for the principal keeper is badly needed, and it is recommended that provision for it should be made in this year's estimates.

Puysegur Point: New rings and rollers have been fitted to the light.

Kahurangi: Eighteen acres of bush have been felled on the reserve, and this area has been fenced in and sown with grass to provide pasture for the station horse and the keepers' cows and sheep.

During the year three lightkeepers have resigned, and one retired on compensation owing to ill health. Five new appointments have been made to fill these vacancies and one which existed at the beginning of the year.

The amount of light dues collected during the year was £29,443 11s. 2d., as compared with £29,310 16s. 3d. during the previous year. Attached is a statement showing the amount received at each port.

Fog-Signals.—The signal at Pencarrow Head has been worked in a satisfactory manner. A signal has been erected at Taiaroa Head, near the lighthouse, and is working satisfactorily. At the former cartridges are exploded every five minutes during fogs, and at the latter every six minutes. In both cases the automatic signals are controlled by the lightkeepers.

Harbours.—The harbours under the control of this Department have been maintained in an efficient manner, and the buoys and beacons in them have been kept in good condition. The s.s. "Hine-

moa" has attended to most of the buoys, and she has erected new beacons at Tairua.

A new beacon, larger than those previously erected, has been built at the entrance to Kaipara Harbour, and has proved to be of great benefit to ships visiting that port. The old pilothouse at Pouto, which is occupied by the wife and family of the principal lightkeeper, and which is also used as a post and telephone office, has been repapered, and the chief boatman's house at the same place has been repaired. If a small light was established at Pouto it would be of great service to vessels plying between Helensville and the Wairoa River, and I recommend that provision for it be made in the current year's estimates. It could be attended to by the chief boatman, and therefore the cost of maintenance would only be the cost of the necessary oil, &c.

Captain J. C. Smith, who has been Harbourmaster, pilot, and Customs officer at this port since the 18th February, 1880, is retiring from the service on account of age, and Captain D. Savident, master of the barque "Hirotha," who has traded to Kaipara for several years, and is well acquainted with the harbour, has been appointed his successor. Captain Smith has been a faithful servant during the

time he has been in the service.

The light at the entrance to Hokianga Harbour was not powerful enough to make an efficient light for the port, and a new port-light has therefore been supplied to take its place. A small tower to hold the new light is necessary. An oil-launch has been procured for the Harbourmaster's use, as this was necessary to enable him to carry out his duties properly. The flagstaff at the entrance has been put in good order.

At Manukau a new beacon has been erected at Shag Point in the harbour, and some rocks which impeded navigation below the wharf have been removed. Representations have been made by the Harbourmaster that the wharfage accommodation is insufficient, and these representations have been

brought under the notice of the Railway Department, which owns the present wharf.

At Okarito a pipi-bank which impeded the approach to the wharf has been removed. The work was carried out by Captain Falconer with a party of men from the Submarine Mining Corps of the Defence Department. The bank was blown up by means of gelignite, and the current then washed the material away.

The sum of £2,000 1s. 3d. has been collected for pilotage and port charges in respect of harbours under the control of this Department, as compared with £1,639 12s. 7d. collected during the previous

year.

A great many plans of harbour-works have been approved by the Governor in Council, and licenses have been issued for the occupation of sites for wharves and other works. A return showing such

works and licenses is appended hereto.

Fisheries.—The regulations regarding fish and oysters have been amended on so many occasions that it has been deemed advisable to consolidate them, and this is now being done. The registration and licensing of sea-fishing boats and of boats engaged in taking oysters enables the Department to control the boats much better than was possible before the registration and licensing was made compulsory, and the Department has now information as to the number and tonnage of the boats used which could not formerly be obtained. A return showing the number of boats registered and licensed at the various ports at the end of December last is attached. This shows that the total number registered was 1,085 and licensed 1,068. At the end of the previous year the numbers were 787 registered and 773 licensed.

According to reports received from Inspectors of Fisheries there appears to be generally a good

supply of fish obtainable.

In the Bay of Islands District during the year, flounders, schnapper, rock-cod, hapuka, barracouta, butterfish, and crayfish were plentiful, and in excellent condition. Mullet has not been plentiful; and the Inspector is of opinion that the only way to stop the overfishing and the disturbance of mullet during breeding-time is to close the canning factories during that period. Enormous quantities of sharks have frequented the bays along the coast of this district.

The Inspector considers that the fee for an annual license to take oysters should be increased to £5, as unless this is done the oyster-beds will when next opened be rushed by pickers, who will soon strip them. He also recommends that each picker should be limited to one sack of oysters per tide, and that stocking a paddocking should not be allowed.

or per day, and that stacking or paddocking should not be allowed.

At Hokianga schnapper, mullet, kahawai, flounders, whitebait, and rock-cod have been plentiful. There are eight smokehouses in the district and two canning factories, one of which was closed down

during the year.

The Officer in Charge of Customs at Kaipara reports that the fishing in that harbour has been about the average during the past year, and that the principal fish caught for the market have been mullet, flounders, and schnapper. There are large numbers of kahawai in the harbour, but as there is no sale for them they are not fished for. Mullet have not been so plentiful as formerly, and very tew large fish have been taken. There is a fish-preserving factory at Batley, at which about twenty thousand dozen mullet were canned during the year.

Oysters are found in small patchy lots scattered over the rocks in the estuary, but they are not so large or of such good quality as those found on the east coast. It will be advisable to close the beds

for a time after the present season. About a hundred sacks of oysters were taken last season.

At Auckland schnapper, which is the principal fish caught, has been plentiful and there has been a good supply of flounders at the Thames. During the summer the fishermen on several occasions caught more flounders than there was a demand for, and had to give them away to the Maoris. Mullet, which is one of the principal fish in the district, has been scarce, and the Inspector is strongly of opinion that there should be a close season for this fish. There are five fish-curing establishments in Auckland, two at the Thames, one at Coromandel, and one at Kawau Island.

The principal fish caught in Manukau Harbour are mullet, schnapper, and flounders.

Most of the fish taken in Hawke's Bay are caught by trawlers, trawling being at present carried out in from 7 to 30 fathoms of water, there being ten steam and one oil-engine trawlers employed. Besides these, fifteen rowing-boats are engaged in fishing. The principal fish are flounders and gurnet, but besides these a large number of schnapper, moki, terakihi, and butterfish are caught. There are five smokehouses in the district.

The principal fish caught in Cook Strait and other Wellington fishing-grounds during the year

have been warehou, schnapper, hapuka, blue-cod, and flounders.

There has been a scarcity of fish in Canterbury during the year, especially at Sumner, New Brighton, and Kaiapoi, and most of the fish sold by auction in Christchurch came from outside the district. There

are three smokehouses in Christchurch and two in Lyttelton, but they were not all being used.

In the Otago District the principal centres of fishing are Catlin's, Molyneux, Taieri Mouth, Port Chalmers, Waikouaiti, Moeraki, and Oamaru, and the principal fish taken are flounders, hapuka, bluecod, and trevalli; and it is stated that notwithstanding the unseasonable weather experienced much larger catches were taken than during the previous year. There has been a considerable improvement in the boats and gear used in the industry. There are thirty-nine smokehouses in the district, which have all been inspected during the year and found to be clean and sanitary in every respect. Besides these there is in Dunedin a fish potting and preserving works. The Inspector states that there are 827 persons employed in connection with the industry in the district, 359 being in fishing-boats, 111 in curing and preserving works, 285 in fish restaurants and retail shops, and 72 as fish-hawkers.

The principal fish caught by the Bluff fishermen are blue cod in Foveaux Strait and Stewart Island, and flounders in Bluff Harbour, and large quantities of oysters are taken from the beds in the

Strait. There are five freezing-plants on the mainland and at Stewart Island.

Trawling for fish has been prohibited within a certain distance from the land between the mouth

of the Waimakariri River and Okain's Bay.

During the year three persons have been fined for breaches of the regulations as to the registration and marking of fishing-boats and five for illegally taking trout when fishing for sea-fish and not returning them at once into the water.

Mr. C. C. Courtenay, Customs Officer, and nine members of the Police Force have been appointed Inspectors of Fisheries.

Seals.—The close season for seals has been extended up to the 30th June next, and it is proposed

to further extend it. Two men have been fined £5 each for killing a seal at Waikouaiti.

Salmon and Whitefish.—Another shipment of 500,000 quinnat-salmon-ova and two million whitefish-ova has been procured from the United States. Mr. Ayson, Chief Inspector of Fisheries, went to San Francisco and brought the ova to the colony, and they arrived in first-class condition. 244,833 of the salmon-ova were hatched out at the Hakataramea Hatchery and 245,000 at Lake Ohau, the fry from the latter being liberated when they had absorbed the yolk-sac. The loss on the voyage and after arrival in the colony was thus only 10,167 ova. Half the whitefish were taken to Lake Kanieri and half to Lake Tekapo.

A fish believed to be a salmon having been caught in the Waitaki River was sent to this Department, which submitted it to Sir James Hector, a copy of whose report thereon is appended hereto. It will be seen that Sir James Hector reports that the fish was without a doubt a young specimen of the genus Oncorhyncus, which represents the genus Salmo on the North Pacific coast of North America and Eastern Siberia, and of which genus some of the specimens are popularly known in the market as Californian salmon, and that it is probably a quinnat, which is the kind of salmon introduced into the colony from the United States and which has been liberated from the Hakataramea Hatchery into the Waitaki River. Other fish believed to be salmon having been caught in the Hakataramea River, specimens were submitted to Sir James Hector, whose reports thereon are also appended.

Reports which have been received from the Chief Inspector of Fisheries, the Manager of the Hakataramea Salmon Station, the Secretary of the Waitaki and Waimate Acclimatisation Society, and the Collector of Customs at Oamaru with regard to other fish which have been caught and which are believed

to be salmon are also appended.

During the year the following salmon have been liberated from the ponds at Hakataramea—viz., 73 five-year-old, 12,587 two-year-old, and 53,378 one-year-old quinnat, 34 four-year-old sockeye, and 55 three-year-old Atlantic. In addition to these 245,000 fry from this year's importation of ova have been liberated at Lake Ohau, making the number liberated during the year 311,147. At the end of the year the following fish were in the ponds—viz., 18 four-year-old sockeye, 131 three-year-old Atlantic, and 269 two-year-old, 21,737 one-year-old, and 244,833 fry from this year's importation of ova.

A site for rainbow-trout eyeing-station has been procured at Rotorua. It is now being fenced in and the necessary eyeing-shed, &c., are being erected. A quantity of ova will be collected and eyed

at the station during the coming season.

Portobello Marine Hatchery.—A good deal of experimental work has been done by the Hatchery Board, and a large number of flounder-fry has been hatched and the fry liberated. Arrangements have been made for a shipment of live lobsters from the United Kingdom, and the Hatchery Board proposes to attempt to introduce crabs. The Board having proposed that inquiry should be made as to the feasibility of introducing turbot, herring, cod, or haddock from the United Kingdom, the High

Commissioner was instructed to make such inquiries, and he was told that if he was satisfied that it was feasible he was authorised to expend a small sum in sending out a trial shipment of any one or two of the kinds of fish referred to. The result of his inquiries is set forth in his memorandum of the 7th ultimo, which is appended hereto along with other correspondence relating to the hatchery and to the question of introducing suitable food-fishes.

Oysters.—The beds between Gull Point and Bream Tail, in the Auckland fishery, which were opened last season, furnished sufficient oysters to meet the demand. In fact, four of the boats which began to take oysters at the beginning of the season ceased operations before the end of the first month owing

to the supply exceeding the demand.

Mr. Ayson, Chief Inspector of Fisheries, went to Auckland last month to examine the beds in the Hauraki Gulf in connection with the question of deciding as to the beds that should be opened this year, and as a result of his examination those between Mullet Point, north of Mahurangi, and Wanga Point, on the Whangaparoa Peninsula, and those between Cape Colville and Hautapu Point, on the Coromandel Peninsula, have been opened. It appears from his report that there is a good supply of oysters on Rangitoto Island, and therefore it would be advisable to open these beds later on in the season if it is found necessary to close those between Mullet Point and Wanga Point and between Cape Colville and Hautapu Point before the end of the season. Mr. Ayson also visited Great Barrier Island, and found that the beds, especially those at Port Fitzroy, are recovering from the overpicking which took place when they were last open. He did not, however, think that they should be opened this year, on account of the difficulty in supervising the picking, and recommended that they should be leased to the settlers before next season. This can be done under the provisions of "The Sea-fisheries Act Amendment Act, 1903," or the oysters could be picked and sold by the Department. The adoption of either one or the other of these systems would prevent the depletion of the beds. The best plan would, in my opinion, be for the Department to pick the oysters itself, as this would tend to conserve the beds and at the same time would yield a profit.

The closing of most of the beds in the Hauraki Gulf during the last few years has enabled them to recover, and if care is taken to prevent overpicking in future there should be a constant supply. Inspector Bennett states that the beds on Waiheke, Ponui, Rangitoto, and Pakiho Islands, and on parts of Motutapu, are in better condition than they have been during the last twenty-five years. There should be considerable further improvement in the near future, as Mr. Ayson states that he observed an unusually large number of young oysters from this season's spawning, showing that there has been

an exceptional fall of spat; and the same state of things was observed in the Bay of Islands.

None of the beds in the Northern fishery, which extends from the North Cape to Whangaruru, have been opened this season. After completing the examination of the Hauraki Gulf beds, Mr. Ayson proceeded to the Bay of Islands and inspected the beds there, and both he and Mr. Stephenson, the local Inspector, recommended that they should be kept closed. The oysters in the Kerikeri section of the fishery are in good condition, but Mr. Ayson considers it would be inadvisable to open these beds, as it is certain that a very large number of gum-diggers and other inexperienced pickers would take out licenses, and that it would be practically impossible to prevent them ruining the beds. This is another instance in which picking by the Department would be the means of insuring a larger supply of oysters for the public and at the same time of conserving the beds.

An inspection which has been made of the beds in the Hokianga Harbour shows that the rockoysters are becoming depleted, although there is still a fair supply of mangrove oysters. It has therefore been decided to close them, and also the beds in Herekino and Whangape Harbours and Ahipara

Bay, as they, too, are getting depleted.

The annual license fee to take oysters in the North Island has been increased from £1 to £1 10s. Several prosecutions for breaches of the law in respect to oysters have been taken in the Auckland

District, and fines have been imposed.

The survey of the oyster-beds in Foveaux Strait has been carried out by Mr. Hunter, Customs Officer at the Bluff, and a copy of his report is appended hereto. This report shows that oysters are plentiful in the Strait.

The quantity of Foveaux Strait oysters exported to Australia during the year ended the 31st December last was 303,771 dozen, valued at £2,530.

I have, &c., GEORGE ALLPORT.

The Hon. the Minister of Marine, Wellington.

The Principal Examiner of Masters and Mates, to the Secretary, Marine Department.
Office of the Principal Examiner of Masters and Mates,

Customhouse, Wellington, 4th May, 1906.

I HAVE the honour to submit my annual report on the examination of masters and mates in New Zea-and.

The work has been carried out by the Examiners at the four principal ports in a satisfactory manner. The total number of examinations held in the colony during the past year is almost exactly the same as in the previous year, the very slight increase being due to the new grade of examination for master of fishing-boat or cargo-vessel, which came into force during the current year. During the last two or three years Auckland has had a considerable increase in the number of examinations, while the number of candidates for examination in Wellington has latterly been decreasing, and this year there have been little more than half the number in Wellington that Auckland has had. As usual, there have been comparatively few examinations held in either Lyttelton or Dunedin.

H.-15.

In the Consolidated Amended Regulations relating to the Examination of Masters and Mates (which will shortly come into force, and which became necessary by the new Shipping and Seamen Acts), provision has been made by the Hon. the Minister of Marine for allowing the time served in vessels trading in the extended river limits to count as sea service towards qualifying for a certificate as an officer in vessels trading on the New Zealand coast. In my last report attention was drawn to the unfair position in which the deck hands of vessels trading in extended river limits were placed by being practically precluded from promotion in the vessels they served in. This position will in future be rectified by the amended regulations.

When consolidating and amending these regulations advantage was taken of this opportunity to

make some small alterations and additions in the home-trade examinations as follows:

"Second mates and mates will be required to find the distance from a point or light by the methods shown in the 'New Zealand Nautical Almanacs' of 1904 or 1905, on pages 119 and 120, or on pages 79 and 80 of the A, B, and C Azimuth Tables published by the Marine Department.

- "A mate will be required to know the general tide, bar, harbour, and storm signals to be used at all New Zealand ports, as given in the 'New Zealand Nautical Almanac'.

 "Master.—(a.) To find by means of Table F on page 121 of the 'New Zealand Nautical Almanac'. of 1904 or 1905, or by Table H on page 81 of the A, B, and C Azimuth Tables, the distance from an object when abeam by the distance run between the beam-bearing and any other bearing before or abaft the
- "(b.) To set the course when at a known distance from an object to pass any required distance from it by aid of the traverse table. (See example on page 121 of the 'New Zealand Nautical Almanac,' or on page 81 of the A, B, and C Azimuth Tables.)

(c.) To find the true bearing of the sun and deviation of the compass by time azimuth tables.

- "(d.) In working the problem marked (b) and (f) in the new regulations (correction to apply to soundings, and to find latitude by meridian altitude of the sun) the 'New Zealand Nautical Almanac and Tide-tables' will be used, all the examples of soundings being set in future for places on the New Zealand
- coast.

 "(e.) The problem for finding the deviation of the compass from the observation of the sun when on the meridian will in future be discontinued, as it is impracticable in these latitudes.'

The problem for finding the deviation of the compass from a bearing of the pole-star (Q. 10 in Appendix L of the Regulations) was dropped out of the syllabus when setting new examination-papers

after my arrival in Wellington, as it could not be put into practice in this colony.

The new problem for second mate, and those mentioned as (a) and (b) for master, are very simple. as will be seen by a reference to the A, B, and C Azimuth Table-book, on pages 79 to 81, where the problems are explained and illustrated. So far as the mates are concerned, the principal work of the problem is to convert an interval of time into distance according to the speed of his ship. In problem (a) for master, he must multiply this distance by a decimal factor taken from a small table, "H," in the book. Problem (b) for master is taken out at sight from the traverse table.

The officer can thus find his distance from a point of land, or a light, or set his course to pass the

required distance off, without leaving the deck, or reference to any chart.

For problem (c), the Marine Department have lately published very complete Azimuth Tables for the moderate price of 3s., under the title "A, B, and C Azimuth Tables." By the aid of this work the true bearings of the sun, moon, planets, and all the bright stars may be found at any hour of the day or night by the use of only about half a dozen figures. Candidates will be allowed to use this work or any other tables that will solve the problem within half a degree.

When masters of home-trade vessels have made themselves acquainted with this last-mentioned problem they should have no difficulty in checking the deviation of their own ships' compasses, by bear-

ings of the sun at any time of the day when the altitude is suitable.

The above-mentioned changes will come into operation on and after 1st September, 1906. They have already been published in the New Zealand Gazette.

I have, &c., H. S. BLACKBURNE.

ACCLIMATIZATION OF SALMON AND WHITEFISH.

Petone, 9th December, 1905. SIR.

The fish you have submitted to me is without doubt a young specimen of the genus Oncorhynchus, which represents the genus Salmo on the North Pacific coast of North America and Eastern Siberia, and of which genus some of the species are popularly known in the market as the Californian salmon.

It is a male fish, passing into the grilse stage, and has evidently been to the salt water, as it has cast its smolt scales and acquired a brilliant silvery dress, bluish-grey on the back, and pure silverywhite on the sides and beneath, the fins being pale olive-brown, margined on the upper edge with black. The dorsal fin has thirty faint spots, and on the sides are a few black X spots above the lateral line and in front of the dorsal. It is a very elegant fish, with a conical, slightly blunt, and tumid head and snout, devoid of scales in its present stage. The body is only slightly compressed, and is deepest and widest just before the dorsal fin. The run of the tail is beautifully tapered, and expanded to form the base of the caudal fin, which is deeply cleft. These last characteristics at once distinguished this fish from any of the trout I have seen in New Zealand as far as external appearance goes; but the possession of sixteen rays in the anal fin and the presence of a soft, free, scale-like appendage in the axil of the ventral fin and more than half the length of the fin removes it from the genus Salmo to that of Oncorhynchus. It is almost impossible to determine the species in the grilse stage, as the information on the subject is very imperfect, and in this case the strength of the preserving fluid used has been excessive and has damaged the internal soft parts of the specimen; but from the small size of the scales, which are twelve to fifteen to the inch, it is probably O. quinnat. Although plump in outward appearance, the fish was singularly free from fat in its interior, and the pyloric cæca were hardly developed, so that it must be looked upon as a fish out of condition. The liver is smaller than should be, weighing only $\frac{1}{4}$ oz., testes rudimentary; stomach and gut empty, the former having strong longitudinal folds. The teeth are very small and slender, and are present on the jaws, tongue, and roof of the mouth.

Oncorhynchus quinnat. — Grilse stage, male.—Length, with tail, 20·5 in.; weight, 2 lb. 12 oz.; greatest girth, 10 in.; greatest height, 3·5 in.; greatest width, 2·3 in.; length of head, 4·1 in.; length of snout to orbit, 1·4 in.; length of maxillary, 2 in.; length to dorsal fin, 8 in.; length of base of dorsal, 2 in.; height of dorsal fin, 1·5 in.; length of first dorsal ray, 2·4 in.; space from dorsal to adipose fin, 4·5 in.; length of base of adipose fin, 0·4 in.; height of adipose fin, 0·6 in.; space from adipose fin to caudal fin, 2·4 in.; length of outer caudal rays, 3·7 in.; length of middle caudal rays, 1·4 in.; length of pectoral fin, 2·9 in.; length of base of pectoral fin, 0·8 in.; length of ventral fin, 2 in.; length of axil scale, 1·1 in.; length of base of anal fin, 2·5 in.; length of longest ray of anal fin, 1·8 in.; height of tail at base of caudal fin, 1·2 in.

at base of caudal fin, 2 in.; height of tail at base in advance of caudal fin, 1 in.; height of tail at base in advance of caudal fin, 1 in.

Fin-ray formula: B, 14; D, 12; A, 16; R, 15; V, 11; L, lat., 130; L, trans., \(\frac{22}{24}\). Note.—B = gill-rays, D = dorsal fin, A = anal fin, P = pectoral fin, V = ventral fin, L, lat. = line of perforated scales along the side of the body, L, trans., = number of scales counted obliquely above and below the lateral line where opposite to the dorsal fin.

The specimen is very interesting from its being, so far as I am aware, the first authentic take of a true salmon after returning from the sea in the Southern Hemisphere. It has been placed in the museum.

Yours, &c.,

JAMES HECTOR.

The Secretary, Marine Department.

Sir,— Petone, 6th June, 1906.

The fish sent from the Hakataramea is a true Pacific salmon (Oncorhynchus quinnat), being a female about 16 lb. weight. It had been so badly mauled about that the viscera could not be examined, the abdomen being full of clotted blood and loose masses of roe. The fish must have been ripe for spawning, but was in very poor condition. It looks like a king salmon from the Sacramento River breed, but it is not in a fit condition for examination. I understand that it is being skinned for Mr. Ayson.

I would like to get one of these fish in a fresh state for examination, and I might give you a full report on the whole subject for future reference.

Yours, &c.,

George Allport, Esq., Secretary for Marine.

JAMES HECTOR.

MEMORANDUM re SALMON.

Petone, 29th June, 1906.

According to your advice of 18th instant a box reached me on 15th instant containing three specimens curled up and packed in grass, but the fish had evidently been treated with some preservative before being packed. All the three fish had the distinctive characteristics of the sub genus Oncorhynchus, which includes all the species of salmon that are found in the North Pacific Coasts of America and Asia, and which breed in the rivers of that region. These particular specimens most resemble the O. quinnat, but they were not in a good condition for study. Five species of salmon are distinguished on the coast of California and British Columbia.

1. O. quinnat, or king salmon, spawns chiefly in Sacramento River and Columbia River. The "run" in these rivers takes place in early spring, and the fish ascend without feeding in some cases for a thousand miles before they spawn. The weight of this salmon in the Columbia averages 22 lb., but often reaches 70 lb.; in the Sacramento it averages 16 lb. After spawning it generally dies; and, in 1854, at the source of the Columbia River, 1,200 miles from the mouth and 2,000 ft. above the sealevel, I have seen the dead fish piled up in heaps for miles along the shores of the upper lakes. In its course that great river has many rocky falls and rapids, but it also passes through extensive lakes. The fish enter the river from the sea early in March, when they are caught in an immense profusion and in prime condition at the "Cascades," forty miles from the sea. I saw them piled up as mentioned at the source of the river on 22nd September, so that about seven months must be occupied in the ascent, at the rate of four to five miles per day. This is the most valuable salmon in Californian waters, but is only in good condition when in the sea or lower parts of the rivers.

2. O. nerka, blue back or Fraser River salmon, also known as the Sawqui (Sockeye, of fishermen): This salmon is found in all rivers north of the Columbia to Alaska, and on the Asian Coast south to Japan. In Fraser River the "main run" occurs in spring, and a second, the "fall run," in August and September, but they are taken on the banks in the estuary at other seasons. Their chief spawning-grounds are in small tributary streams to mountain lakes with temperature 45° Fahr. The flesh when in good condition is deep red; at spawning time it is pale and of less value for canning. Their weight is from 3 lb. to 8 lb. The other three species are of inferior importance to the foregoing, and only require mention.

The silver salmon, the dog salmon, the humpback salmon: These are all "fall" salmon, ascending only a short distance from the sea.

I will describe the specimens sent as I, II, III.

I.—A male fish 25 in. long, weighing 6 lb., almost black in colour, with deeply embedded scales in a tumid or spongy skin, two silvery patches on the gill-covers, and several large dull-red blotches on the sides of the body, black spots on the dorsal and upper part of the caudal fins. Head elongate, with

greatly developed jaw covered with powerful teeth. Body short in proportion to the height, owing to the great depth of the body in front of the dorsal fin, like a humpback salmon. Anal fin and lower part of caudal fin much lacerated, almost as if they had been gnawed away. Viscera crushed and engorged with blood, as if the fish had been artificially stripped. The crushed remains of the organs could not be recognised. Flesh lean and pale in colour. Pyloric coeca numerous, but exhausted and without any enveloping fat; evidently a kelt or male fish exhausted and mutilated by spawning struggles.

II.—A female, evidently of the same species as I, but slightly smaller, 22 in. long and $5\frac{1}{2}$ lb. weight. Very elegant in form, with fine conical snout, and slender jaws with moderate teeth. Scales silvery, and not deeply embedded. Ventral and caudal fins much torn and destroyed. Viscera engorged with blood, with no ova present in the abdominal cavity, apparently having been discharged or stripped. Pyloric cœca small, $\frac{1}{2}$ in. long, and over one hundred and twenty in number. General condition of

fish lean, and quite unfit for food; flesh pale pink.

III.—A small male, 1½ lb. in weight and 17 in. in length. Head and body silvery, but darker on the back. Testes 6 in. in length, fully developed, and full of milt, which issued freely from the vent on pressure. Pyloric cocca numerous (over one hundred and twenty), but very small and without fat. General condition of body lean; flesh light coloured. Lower edge of caudal slightly abraded. Scales much rubbed off. A handsome little fish of the same appearance, except the absence of silvery scales, but more mature than the grilse I described in December last, which was caught at the mouth of the Waitaki.

The fishes I and II I judge to be in their fourth year, and No. III in its third year, but with all the three it is probably the first season in which they have made a run up the river to spawn. The specimens were too much damaged for preservation.

George Allport, Esq., Secretary for Marine.

JAMES HECTOR.

Wellington, 25th May, 1906.

As instructed by you, I have made further inquiry with regard to the result of the importation of salmor and whitefish, and I enclose herewith a report on the matter from the manager of the Hakataramea Salmon Station, and attached thereto a letter from the Secretary for the Waitaki Acclimatisation Society, also a letter from the Collector of Customs at Oamaru.

It would seem that quite a number of fish said to be similar to the one sent to the Department for identification have been caught last angling season in the Waitaki River, and some by fishermen

in Oamaru Bay.

The information the manager gives about the specimen of sockeye salmon which he found caught against the *upper side* of the pound-net in the Hakataramea River on the 22nd instant is most encouraging and interesting. These salmon when mature would run up the rivers to spawn in the autumn months. I should think that the end of March and through April would be their spawning season in this hemisphere, and they would return down stream as "spent" fish in May. The fact that this fish had been up stream spawning proves that it had been to sea. The manager's emphatic statement that it is a sockeye salmon can, I think, be accepted as correct, for he has had a good many years experience with these fish. After I have had an opportunity of examining the specimen I will, however, report again to you about this fish.

With regard to whitefish, it is too soon to expect a definite result from the fish planted in Tekapo and Kanieri Lakes, and the fish will not be large enough yet to prove whether they are in the lakes by netting-tests. I may say that reports are current at Lake Kanieri similar to those mentioned by the manager about Tekapo—viz., that strange fish have been seen, and from the description given resembling whitefish. At Kanieri Lake these fish are reported as having been seen in the shallow water near the foot of the lake. From the evidence we have now there would seem to be no doubt that there are a good many quinnat, and possibly sockeye salmon, in the Waitaki River, and possibly round the coast: and we should expect to be able next season to handle several specimens.

round the coast; and we should expect to be able next season to handle several specimens.

With regard to whitefish, I have no doubt that a number of our lakes are suitable for this fish and that, we shall be successful in acclimatising them.

The Secretary, Marine Department, Government Buildings.

L. F. Ayson.

Sir,— Hakataramea Salmon Station, 22nd May, 1906.

In accordance with your instructions of the 8th instant, I have the honour to report on the results which have been obtained from the salmon and whitefish which have been liberated during the last five years, and I enclose herewith a letter from Mr. H. Mackintosh, Secretary of the Oamaru Acclimatisation Society, to whom I wrote for such information as might be in possession of his society. I might mention that these people, situated as they are, have greater opportunities for obtaining information on this subject than I have, and this letter bears out what has from time to time been published in the local papers.

As no doubt you are aware, rumours of supposed salmon being caught are frequent during the fishing season; as for the truth of some of these I have doubts, although in many cases it is quite possible that they are true salmon of some species. The two specimens in possession of the Oamaru Acclimatisation Society are, on the authority of Sir James Hector, sea-run quinnat salmon

(O tshamutscha)

While cleaning the pound-net which I have set at the mouth of the Hakataramea River to-day I caught on the top side of the net a fish about 16 in. in length, and which would if in proper condition weigh about 5 lb. This fish is undoubtedly a sockeye salmon (O. Nerka) which has been up the river for the purpose of spawning and was returning down stream. The fish was in a dying condition, being greatly covered with fungus. I now have it in formalin at the station. This, I think, should now set at rest all doubts as to them returning from the sea to spawn.

I am of opinion that as yet it is too soon to expect definite results, yet the report of salmon being both caught and seen would seem to show that some were about, and that if their importation be persevered with there is little doubt but that in a few years they will be well established.

With regard to the whitefish liberated in Lake Tekapo, I have not had any opportunities of ascertaining whether they have taken hold or not. This would be extremely hard to tell unless it were given a thorough trial, and this work would be well-nigh impossible yet, seeing that the fish would

hardly have grown to a sufficient size for netting.

While at Lake Tekapo in January last refitting the temporary hatchery I was informed by two different persons that they saw on different occasions at the bridge where the Tekapo River flows out of the lake, a strange fish, and from the descriptions given me I am inclined to think that the fish seen I have, &c., were whitefish.

The Chief Inspector of Fisheries, Wellington.

CHAS. L. AYSON.

Waitaki and Waimate Acclimatisation Society, Waitaki Branch, Oamaru, 16th May, 1906. SIR,-

I am in receipt of your letter of the 14th instant, and note contents. We are glad to be able

to furnish you with information requested.

The work done by your Department, and well carried out by your father and self, we are glad to say is now beyond a doubt a success, as we have had numbers of sea-run salmon caught in the Waitaki and in the Oamaru Harbour by fishermen; they range in weight from $3\frac{1}{2}$ lb. to $5\frac{1}{2}$ lb., and have been caught these last two seasons. We sent one up to Wellington, which, after inspection by Sir J. Hector, was pronounced a true quinnat salmon. We have another in Dunedin being stuffed and mounted for the Christchurch Exhibition—about $4\frac{1}{2}$ lb. We feel more than pleased at the success obtained by the We as a society have been battling for thirty or forty years to reach what now is an accepted fact. Our means were not sufficient to keep up the supply, and we hope that the Department will set aside a good amount every year, knowing the boon it will be to the colony.

By the way, there is one suggestion I should like to make, that the Department should tag a number

of each lot liberated—on dead fin (a little plate with a number representing the year)—and advise the different societies, and also Japan and America, so that we might find out their habits. This has been done at Home when I was a boy, and I am sure the information derived would be of great use.

We wish you every success, and will help you all we can in this great work.

Mr. C. L. Ayson.

Yours, &c., HENRY MACKINTOSH, Secretary.

From the Collector, H.M. Customs, Oamaru, 23rd May, 1906, to L. F. Ayson, Esq., Chief Inspector of Fisheries, Wellington.

WITH reference to your telegram of the 22nd instant asking for information re fish supposed to be salmon which were caught in this district during the last fishing season, I have to state that I have made inquiries of the chairman of the Acclimatisation Society and others interested, and have to report as follows:

These fish (salmon) are very scarce; so far as can be ascertained less than fifteen have been caught in the Waitaki River, and not more than five have been taken in nets by the fishermen in the Oamaru Harbour. I understand that in the latter case the fish were dead when hauled on to the beach, so that it was useless to return them again to the sea.

Only in one instance was a salmon forwarded to me for identification, and in this particular case I forwarded it to the Secretary of Marine, Wellington, on the 28th November, 1905. This sample was fully reported on by Sir James Hector, and was stated to be a true salmon.

T. M. CULLEN, Collector.

Wellington, 29th May, 1906.

THE two telegrams (enclosed herewith) from the manager of the salmon station at Hakataramea show that he has obtained two more specimens of salmon at the pound-nets set for capturing spawning trout. He does not say whether these are quinnat or sockeye. I have instructed him to keep a sharp look-out for others, and to forward the 16 lb. fish here in order to have it examined and mounted.

If these fish prove to be salmon, as I have no doubt they will, they will be the first fish of this species that have been known to have actually returned from the sea and ascended the rivers to spawn, and their acclimatisation in New Zealand waters may be considered to be an established fact.

L. F. Ayson,

The Secretary, Marine Department, Government Buildings.

Chief Inspector of Fisheries.

COPY OF TELEGRAM from CHARLES AYSON, Hakataramea, dated the 26th May, 1906. CAUGHT another large salmon on top side of nets, dead, to-day.

COPY OF TELEGRAM from CHARLES AYSON, Hakataramea, dated the 28th May, 1906. CAUGHT in pound-net yesterday large female quinnat salmon about 16 lb., very ripe, and in good condition, free from fungus or scars. Advise what best do with it. Splendid specimen for exhibition purposes.

INTRODUCTION OF SEA-FISH.

Marine Fish-hatchery and Biological Station, Portobello, Dunedin, N.Z., 27th October, 1905.

SIR.-

In reference to your letter of the 26th ultimo (M. 2493/1905), and the request for a threemonthly report, I shall be glad to do what I can in the way of keeping the Minister of Marine informed of the work being done at the hatchery; but, as stated in my letter of the 19th ultimo, we have no secretarial assistance whatever, and these things take time to prepare.

I observe by yesterday's paper that Mr. Ayson leaves the colony to-day for America to receive and bring over ova. My Board would suggest that while in the States he be instructed to make inquiry and report as to the possibilities of introducing to these southern waters any of the fine food-fishes

of the Atlantic and Pacific coasts, especially the striped bass.

A letter has been written to Doctor Fulton, Scientific Superintendent of the Scotch Fishery Board, to undertake a series of experiments with the view of ascertaining how long the hatching of the eggs of turbot and of herrings can be retarded. This research he was about to undertake for me some years ago, but the shifting of the station from Dunbar to the Bay of Nigg, Aberdeen, changed the whole plan of the Scotch Board's operations. The cost of the experiments was estimated as not exceeding £8. I have been informed by the United States Fish Commissioners that eggs of cod and of winter flounder can be retarded for forty-five days. If the time, as regards cod, turbot, or herring can be extended to fifty days with certainty, it ought to be possible to bring ova of one or other of these fishes to the

colony by direct steamer.

No detailed report of the station has ever been circulated for public instruction. I propose to write such an account for the Otago Institute, together with reports of the scientific work attempted and accomplished by Professors Benham and Chilton, Mr. T. Anderton, the Curator, and myself. if printed, would bring the scheme before a very large circle of readers in the colony, from Auckland to the Bluff. The spreading of this knowledge would enable our Board to approach the various acclimatisation societies for grants in aid with much greater prospect of success than is the case at present. We could also arrange to get a couple of hundred or more copies separately printed for distribution. I question, however, whether the Council of the New Zealand Institute would agree to print so large a pamphlet, unless the Fich Hatchery Board paid a contribution towards the cost. I would therefore ask whether the Department would aid by a special grant, say, not exceeding £20, so as to enable us to get this report printed.

I believe, myself, that it would be money well spent. In connection with the work being done at the hatchery at present, the Curator is busy studying the hatching and development of the common He has great numbers of eggs and larvæ in the hatching-boxes just now, and has already I have, &c.,

liberated in the bay over 260,000 young fry.

The Secretary, Marine Department, Wellington.

GEO. M. THOMSON, Chairman.

Sir,-

3rd November, 1905.

I have the honour to acknowledge the receipt of your letter of the 27th ultimo, and, in reply, to state that Mr. Ayson will be instructed to make inquiry when in the United States as to the possibilities and advisability of introducing into the colony any of the fine-food fishes of the Atlantic and Pacific coasts, especially the striped bass.

The Minister has authorised a grant not exceeding £20 towards the cost of printing the account of the station which you propose to write for the Otago Institute on the understanding that about 200 copies are printed separately for distribution, some of which should be supplied to this Department. I have, &c.,

GEORGE ALLPORT, Secretary.

G. M. Thomson, Esq., Chairman, Marine Fish-hatchery and Biological Station, Portobello, Dunedin.

COPY OF TELEGRAM sent to L. F. AYSON, Esq., Chief Inspector of Fisheries, Auckland, 16th November, 1905, by Secretary, Marine Department, Wellington.

WHEN in United States please make inquiries as to the possibilities and advisability of introducing into colony any of fine food-fishes of Atlantic and Pacific coasts, especially striped bass.

> Marine Fish-hatchery and Biological Station, Portobello, Dunedin, N.Z., 13th November, 1905.

SIR,-

I beg to inform you that I have by this outgoing San Francisco mail communicated with the manager of the Shaw, Savill, and Albion Company, London, and with Dr. E. J. Allen, Director of the Marine Biological Association of the United Kingdom, in regard to the shipment of live lobsters to

All arrangements have been left in the hands of these gentlemen, and we anticipate that the first shipment will be made by one of the first vessels on the berth at London for Port Chalmers direct.

The Marine Fish-hatchery Board would esteem it a favour if you would inform the High Commissioner for the colony of the projected shipment. Dr. Allen may be put to some slight expense in procuring the lobsters and in sending them up to London by a suitable man; and if those expenses could be reimbursed in London we would at once pay them here on learning the amount from you.

I trust this experiment will prove successful, and that ere long we shall be able to count the lobster I have, &c., as among the animals naturalised in the colony.

G. Allport, Marine Department, Wellington.

GEO. M. THOMSON, Chairman.

SIR,-

SIR,—

I have the honour to acknowledge the receipt of your letter of the 13th ultimo, and, in reply, to state that the High Commissioner has been instructed to pay the expenses incurred in connection with the shipment of live lobsters to your Board. When the vouchers reach the colony copies will be transmitted to you so that a refund may be made. I have, &c.,

GEORGE ALLPORT, Secretary.

19th December, 1905.

Geo. M. Thomson, Esq., Chairman Marine Fish-hatchery Board, Portobello.

Wellington, 19th December, 1905. SIR,-The Portobello Marine Fish-hatchery Board, Dunedin, is arranging with the manager of the Shaw, Savill, and Albion Company, and with Dr. E. J. Allen, Director of the Marine Biological Association of the United Kingdom, in regard to the shipment of live lobsters to the colony, and as Dr. Allen may be put to some small expense in procuring the lobsters and sending them up to London, and the Hatchery Board has no agent in England who could defray the expenses incurred, I shall be glad if you will be so good as to do this out of your General Imprest Account, and the Board will refund the amount on receipt of the vouchers by the Treasury. I have, &c.,

WM. HALL-JONES, for the Premier.

The High Commissioner for New Zealand, Westminster Chambers, 13 Victoria Street, London, S.W.

Marine Fish-hatchery and Biological Station, Portobello, Dunedin, N.Z., 12th January, 1906.

I have the honour to report that the Marine Fish-hatchery Board met last Thursday to consider the question of proceeding with the introduction of desirable food-fishes from Britain. It was resolved to ask you to be good enough to communicate with the High Commissioner in London as to the introduction of one or more of the following kinds of fishes: Turbot, herring, cod, or haddock.

Before anything definite can be done in the way of making a shipment, information would have to be obtained on several points—e.g., (1) whether the fish could be transported alive, and how far such an experiment could be intrusted to the engineers of the conveying steamers; (2) whether the ova of any of these could be brought out; (3) in the latter case, whether their hatching could be retarded sufficiently long to insure their arriving in the colony; (4) whether all these species of fish can be kept alive in sea-water when the temperature falls to 32° Fahr. These questions suggest themselves to the Board as the chief ones requiring solution before the actual experiment of obtaining the fish or their ova

I have already written to Dr. Fulton, Scientific Superintendent of the Scotch Fishery Board, on the subject of the retardation of fish-ova, and we would suggest that the High Commissioner communicate with him, with Dr. Allen, of the Marine Biological Laboratory, Plymouth (who is procuring the lobsters for the Board), and with Professor Herdman, of Liverpool University. Professor McIntosh, of St. Andrew's, is a leading authority on the subject in the Old Country, and Professor J. Cossar Ewart, of Edinburgh, is the gentleman who on a former occasion obtained herring-ova for New Zealand during the administration of Sir Julius Vogel and Sir Robert Stout.

In regard to the introduction of lobsters, it is thought probable that shipments may have to be repeated more than once before the experiment can be considered to be successful. The same will apply to the crab, which the Board propose to deal with as soon as possible.

The Board has been guided from the outset of its operations by the necessity of exercising caution in its work on account of the expense involved in the work contemplated, and has sought to acquire all possible information, both by inquiry and by experiment, before undertaking anything which necessitated much expenditure, It had a definite, but small, amount of funds to come and go upon, and it was desirous of keeping well within its means, so as not to break faith with the Government and come on them again for further liabilities.

The Board trusts that the move forward suggested by you may be eminently successful, and it will do all in its power to co-operate in making it so. I have, &c.,

GEO. M. THOMSON, Chairman, Marine Fish-hatchery Board.

The Hon. W. Hall-Jones, Minister of Marine, Wellington.

Sir,-17th January, 1906. I have the honour, by direction of the Minister of Marine, to acknowledge the receipt of your letter of the 12th instant, with reference to the question of introducing desirable food-fishes from Great Britain, and I am to forward herewith, for your information, copy of a communication which has been addressed to the High Commissioner on the subject. Î have, &c.,

George Allport, Secretary.

G. M. Thomson, Esq., Chairman, Marine Fish-hatchery and Biological Board, Dunedin.

SIR,-Wellington, 15th January, 1906. Adverting to my letter No. 705/149, of the 19th ultimo, on the subject of your paying expenses connected with a shipment of live lobsters for the Portobello Fish-hatchery Board, I have the honour to forward herewith copy of a communication which has been received from the Board in regard to the introduction into the colony of turbot, herring, cod, or haddock, and shall be glad if you will make inquiries on the points suggested therein. If, as a result of your inquiries, you are satisfied that it is

feasible to introduce the fish into the colony, you are authorised to expend a sum not exceeding £100 in sending out a trial shipment of any two of the kinds of fish mentioned in the first paragraph of the Fish-hatchery Board's letter.

13

They should be sent by steamer calling first at Port Chalmers, and I understand that the New Zealand Shipping Company and the Shaw, Savill, and Albion Company will be pleased to assist in the

I have, &c.,

WM. HALL-JONES, for the Premier.

The High Commissioner for New Zealand, Westminster Chambers, 13 Victoria Street, London, S.W.

MEMORANDUM from the HIGH COMMISSIONER to the Hon. the PREMIER.

Westminster Chambers, 13 Victoria Street, London, S.W., 7th April, 1906.

Marine Department.—Shipments of Fish or Ova.

REFERRING to the Hon. the Minister's letter No. Marine 05/2993 (349/150), of the 15th January last, respecting the introduction into the colony of turbot, herring, cod, or haddock, I now beg to report that letters were forwarded to each of the experts mentioned in the enclosure to the Hon. the Minister's letter before mentioned asking for information as to the probability of successful shipments being effected. Replies have been received from all except Protessor J. Cossar Ewart, who has not answered my letter of the 27th February or a letter of reminder sent on the 21st March.

Except in the case of the herring—and even in that success appears doubtful—the experts practically agree that the successful shipment of ova is quite unlikely. They would apparently prefer

sending live fish in place of ova, except perhaps as regards the herring.

With respect to live fish, the experts all agree in thinking turbot might be successfully transported, and possibly small cod or codling. Haddocks might be tried, though loss would be considerable, whilst herring is most unlikely to meet with success.

As there is considerable diversity of opinion in this matter, I have decided to refer the replies to the Hon. the Minister for consideration. I shall accordingly be glad of instructions in the matter, more particularly with reference to the particular expert whom the Hon the Minister would prefer to be engaged to advise upon the collection of the fish or ova and its care during the voyage to New Zealand that is, supposing it should be decided to make such shipments.

I may add that the sum mentioned—not exceeding £100—may not be sufficient, as these special

shipments of ova or fish sometimes entail considerable expense.

I enclose copy of my letter and the replies received from Dr. Fulton, Professor McIntosh, Professor Herdman, and Dr. Allen. It will be noted that the latter's reply also refers to the shipment of lobsters, concerning which the Hon. the Minister, in his letter No. 05/2993 (705/149), of the 19th December last, desired me to reimburse Dr. Allen for any expense to which he might be put in procuring and sending the lobsters to London. As will be seen, shipment will not take place to Otago before May next.

W. P. Reeves.

13 Victoria Street, Westminster, S.W., 27th February, 1906.

Dr. Fulton, F.R.S.E., Scientific Superintendent of the Scotch Fishery Board, 101 George Street, Edinburgh.

SIR,-

I am directed by the High Commissioner to state that the has been requested by his Government to make inquiries as to the practicability of introducing into New Zealand consignments of turbot, herring, cod, or haddock, and, if so, to arrange for a trial shipment of any two of these kinds of fish.

Before making any definite arrangements the High Commissioner is desired to ascertain if possible

the following information:

(1.) Whether the fish could be transported alive, and how far such an experiment could be intrusted to the engineers of the conveying steamers.

(2.) Whether the ova of any of these could be brought out.

(3.) In the latter case, whether their hatching could be retarded sufficiently long to insure their arriving in the colony.

(4.) Whether all these species of fish can be kept alive in sea-water when the temperature falls to 32° Fahr.

The High Commissioner will esteem it a favour if you can oblige him with any information on the above points to enable him to come to a decision as to sending trial shipments to New Zealand.

I am, &c.,

W. KENNAWAY.

[Similar letter sent to Professor G. C. Ewart, Professor Herdman, and Professor McIntosh and Dr. Allen, with additions re lobster.]

SIR,---

The University of Liverpool, 5th March, 1906.

I have been away from home, which has delayed my answer to your letter of the 27th February, 1906.

In answer to your four questions, my opinion is,-

1. The turbot, cod, and haddock could probably be transported alive; the herring, I think, could The business could not, I think, be intrusted to the engineers of the steamers. The fish would have to be personally conducted, as they were when Mr. Dannevig imported plaice from this coast to Australia.

2. I think the ova might be taken safely if kept at a low temperature—nearly freezing-point; but it would be very desirable to make some experiments here on the vitality of the ova under such conditions before actually trying them. I think the herring might be better for this purpose than the others.

3. The incubation-period of most of these ova is fourteen to seventeen days, but I think it might be delayed sufficiently by keeping at a low temperature.

4. These fish usually live at a temperature higher than you state (32° Fahr.); but the cod at least goes north into colder water, and I do not think that a fall to 32° Fahr. would necessarily be fatal.

The sending of plaice to Australia (New South Wales, I think), has, I believe, been quite successful, and I think the experiments the High Commissioner thinks of trying have a fair chance of success, and are well worth attempting. Yours, &c.,

The High Commissioner for New Zealand.

W. A. HERDMAN.

SIR,-

Gatty Marine Laboratory, St. Andrew's, 2nd March, 1906.

I have to acknowledge your letter of the 27th ultimo, concerning the practicability of introducing into New Zealand consignments of turbot, herring, cod, or haddock.

Before replying to the foregoing, I hope a careful survey of the local fishes has been made, and by various methods of fishing, so that the resources of the colony are fully understood and critically tested. A knowledge of the nature of the bottom (e.g., rocky or sandy) in the localities where the experiments will be carried out, the nature of the pelagic (floating) animals, as well as those on the bottom, should also be carefully obtained. The average temperatures of the sea-water at various seasons should also be known, as well as the trend of the chief currents.

1. There should be no insuperable difficulty in transporting the fishes from Britain round the Cape to New Zealand, especially if "welled" vessels are employed. Herrings would require to be acclimatised to their altered circumstances, just as those from the Baltic to St. Andrew's, the fishes in the latter case having been conveyed in fresh water. In a "welled" vessel, however, salt water would be better. Turbot are very hardy.

If the engineers were duly instructed in regard to their duties to the fishes, the kind of food to be used, and the strict attention to hygiene, they might do. It is certainly an expensive method to send out a trained scientist, or a practical assistant trained in a "marine laboratory."

2. The ova of the herring offer the most likely field for the experiment in transportation; but I could not promise success. It would be a great strain on an attendant, and, after all, the risks of the young on arrival would further complicate the experiment. It was formerly tried, if I remember rightly, in the case of Australia. It might again be exhaustively experimented with if there is a strong feeling in regard to it.

I do not think that the question of attempting to transport the ova of turbot, cod, or haddock need at present be considered. The pelagic eggs of these do not readily lend themselves to such experiments.

3. The eggs of the herring are exceedingly hardly (having been hatched here more than once after sixteen hours' exposure to the air in a boat), but whether they can be retarded for more than two months is doubtful.

The question in regard to the other fishes has been answered.

4. In our experience most fishes in tanks and vessels die when such are frozen.

I should not suppose, however, that a "welled" vessel need experience this condition in its passage round the Cape to New Zealand: so long as the "well" is not frozen, the fishes should survive.

I am, &c.,

Walter Kennaway, Esq., 13 Victoria Street, S.W.

W. LE M. JURTOSK.

SIR,-

The Laboratory, Citadel Hill, Plymouth, 2nd March, 1906.

I beg to acknowledge the receipt of your letter of the 27th February with reference to the shipment of live lobsters to New Zealand. I have been in communication with the Shaw, Saville, and Albion Company on the subject, and they now inform me that they will not be able to take the lobsters to Otago before May, as their steamer leaving this month is taking out trout-ova to the Otago Acclimatisation When the lobsters have been shipped, I will send you, as requested, an account of any expenses that may have been incurred.

With regard to the second part of your letter, I think that consignments of turbot would in all probability be successful; but there would be little chance of success with the herring, cod, or haddock. Perhaps some small codling might be managed, but I am practically sure that it would be useless to try herring, as we have never been able, even in the large tanks in our aquarium, to keep them for any length

of time.

I do not think that any attempt to deal with the ova at the present time would be practicable, as all attempts to rear the larve of these fishes to the adult form under artificial conditions have failed.

With regard to your fourth question, from my experience in our aquarium, I am inclined to think that a fall of temperature to 30° Fahr. would be fatal to all the species named, though I have no direct observations to go upon. We have noticed that in the coldest winter weather the death-rate in the tanks is increased. I am, &c.,

The High Commissioner for New Zealand.

E. J. ALLEN.

Sir,-

417 Great Western Road, Aberdeen, 14th March, 1906.

On returning from the Continent I find your letter of the 27th ultimo, regarding the intro-that the fish mentioned differ very much as to their power to withstand altered conditions: it ought not to be difficult to transport turbot, if small; cod also, or codling, would also be capable of being taken,

I think, without great loss; but the loss with haddock, and, still more, with herring, would probably be large. I do not think the experiment could be intrusted to the engineers, but would require the constant supervision of a skilled assistant, as its success depends on strict attention to numerous small details. With regard to (2), the eggs of all except the herring are floating, and the mechanical difficulties of dealing with them would be very great. The eggs of the herring might be taken under proper conditions. With regard to (3), the hatching of the eggs could, I think, be retarded sufficiently long to insure their arriving in the colony. With regard to (4), it is not probable that the fishes would resist a temperature of 32° Fahr, throughout the voyage, and a temperature considerably higher would be necessary. Eggs, however, would require a low temperature—about 32° Fahr,—and they can resist it.

On the general question, I may be permitted to make a few observations, such as I have made quite recently to Mr. George Thomson, the Superintendent of the hatchery in New Zealand, who wrote to me on the subject. I do not favour the attempt to introduce the fish in the egg-state if they can be introduced as fish. Apart from difficulties in dealing with them, an enormous supply would be required to render success probable, for the eggs or the newly hatched fry would have to be at once put into the sea, and under ordinary circumstances one could not expect more than an extremely small proportion to survive to reproductive size—not more, perhaps, in the case of the turbot or the cod, than two or three per million eggs. It is different with fresh-water fishes—as the trout or salmon—where the number of eggs related to the survival of one individual is small, and where the eggs and the young fish can be kept under observation. In the case of the herring, however, it may be found best to deal with the eggs.

At least as important in any such experiment as the arrangements for carrying out the fish are the arrangements for dealing with the fish when they arrive; and I presume this would be carefully attended to. The plan ought to be to take out small fishes of the kinds described and to keep them, it may be for a few years, in tanks or otherwise until they reach maturity and spawn. Their eggs could then be hatched in the hatching apparutus and the fry turned out in suitable places, and the process repeated each year.

Before anything is done or expense incurred, I would recommend that the Government of New South Wales should be fully consulted. A few years ago the Agent-General, the late Mr. Copeland, came to Aberdeen with reference to indroducing European fishes to the colony. The experiment was made by Mr. H. Dannevig, now the Superintendent of Fish-culture at Sydney, and he ought to be able to give more valuable information on the subject than anybody else.

I am, &c., T. Wemyss Fulton.

Walter Kennaway, Esq., Secretary to the High Commissioner for New Zealand, Westminster Chambers, London, S.W.

Sir,— Wellington, 6th April, 1906.

I have the honour to report that in accordance with your instructions while in America I made inquiry with regard to the possibility of introducing some new food-fishes from that country, special inquiry being made with regard to the striped bass.

On this matter I consulted with Commissioner Bowers, Drs. Smith and Everman, and Mr. Tib-comb, of the United States Bureau of Fisheries, Washington; Dr. Townsend, Director of the New York Aquarium; Dr. Sherwood, Ichthyologist for the Museum of Natural History, New York; Professor Prince, Commissioner of Fisheries for Canada; and Professor Jordan, of California.

The general opinion of these gentlemen was that the striped bass was one of the very best fishes to try to introduce into New Zealand waters, while at the same time it should be one of the easiest to transport. The North Atlantic cod and shad were also mentioned as desirable fishes, but it was considered that their transportation would be a very difficult matter.

Owing to the character of the eggs of the striped bass, it is not considered possible to transport them any great distance; but it is thought that the young fish can be safely sent to New Zealand. The young fish are said to be remarkably hardy, and stand confinement well. The American experts recommend taking the fish as young as they can be caught, and that they should be confined in suitable tanks for a few weeks before being shipped. By treating the fish in this way they are hardened and used to confinement and artificial food, and the weaker fish are weeded out before being put on board ship.

Dr. Townsend, who has had a large experience in holding these fish in confinement in his aquarium-tanks, says that, being anadromous in their habits, they can be kept in either fresh or salt water for a long time. Most of the specimens in the New York Aquarium have been there over two years.

Dr. Jordan says that while he considers them to be one of America's best food-fishes, they also afford excellent sport for the angler in the bays around the coast and in the tideways of rivers. They are taken with rod and line, ground and spinning bait being used. They enter the rivers for the purpose of spawning, and, like the salmon, do not feed in fresh water. This fish is indigenous to the Atlantic Coast of America, its range being from about lat. 50° to 30°, or from New Brunswick to the Escambia River, on the coast of Florida. About the year 1876 a number of young fish were transported to the Pacific coast and liberated near the mouth of the Sacramento River. In 1880 Dr. Jordan reported that several specimens had been caught along the coast, and at the present time they are one of the most plentiful and favourite fish in the San Francisco market. In the market they usually run from about 3 lb. to 25 lb. in weight, but specimens running up to 50 lb. and 60 lb. are frequently caught. I think this is a fish that should do remarkably well in the coastal waters of the colony, and would recommend that it should be introduced.

The expert authorities mentioned in this report commended the New Zealand Government for trying to acclimatise the quinnat and sockeye salmons and whitefish, and strongly recommend persevering with these fish.

I have, &c.,

L. F. Ayson, Chief Inspector of Fisheries.

The Secretary, Marine Department, Wellington,

REPORT ON OYSTER-BEDS IN FOVEAUX STRAITS.

16

Sir,— H.M. Customs, Bluff, 2nd February, 1906.

Having received your instructions through the Collector of Customs, Invercargill, to proceed with the survey of the oyster-beds in Foveaux Strait, I engaged the s.s. "Despatch" upon the terms submitted to and approved of by you—viz., £6 12s. per diem, the owners to find crew and all appliances.

I had with me Messrs. Whealler and Coupar, as master and engineer respectively, both of whom have had over twenty years' experience in oystering, their local knowledge being of great assistance in locating the beds, also in giving general information in regard to them when discovered, &c.

The Harbourmaster also kindly lent me the Board's station pointer, with which instrument I was

able to locate the positions more accurately on the chart with sextant angles.

Captain Barber, late of the barque "West Australia," also formed one of the party, and he gave valuable assistance in checking bearings and angles.

I found the s.s. "Despatch" suitable in every respect, her steam-power and handiness in moving

from one bed to another greatly facilitating the work.

We commenced surveying on the 16th January, and completed the work on the 30th January, being altogether employed seven days.

A number of days between the dates stated, we were unable to do anything on account of bois-

terous weather.

We found the beds extending eleven miles W.S.W. from Waipapapa to ten miles E.S.E. from Centre Island (with broken intervals between), a distance of twenty-five miles. Oysters were found most abundantly by following the trend of the current. This will be seen by glancing at the chart, and is probably accounted for by the spawn being carried along by the tide and deposited where food is most likely to accumulate. Large quantities of dead shells are to be found on most of the beds, more so on those which have been worked continuously, and upon beds where the current does not run so strong. As oystermen always deposit their cultch—i.e., refuse—upon the bed from which the oysters are taken no doubt it helps to swell the accumulation of dead shell. Oysters also have a dangerous enemy in the shape of a species of starfish, commonly called "five fingers." This fish has a body of about 1 in. to $1\frac{1}{2}$ in. in diameter, with legs or tentacles averaging about 6 in. in length. When the oyster-shell is open for the purpose of feeding, these fish insert a tentacle (probably unintentionally) which, being of a very brittle nature, breaks off, and leaves the oyster exposed, thereby killing it. Large numbers of the above species of starfish are to be found on the beds, most particularly where dead shells are abundant. The depth of water ranges from thirteen fathoms on the easternmost bed to twenty-four fathoms on the westernmost.

I have numbered the beds consecutivly 1 to 12 for the sake of reference, and I may state that the

supply of oysters is inexhaustible.

The following is a brief description of the beds individually, the dates given as to discovery, &c., being approximate:—

Bed No. 1, or East Bed.

Length, 4½ miles, by 2¼ miles wide; average depth, 12 fathoms. Discovered about 1888, and worked during the open season for the first seven or eight years, then, on account of the oysters becoming small, left idle for several years. (I may state that as the oyster-merchants refuse to take small oysters, and as they are unfavourably received by the public, there is no likelihood of those engaged in the oyster-fishing bringing small ones into port.) Oysters found on this bed are now large and of good quality, and are noted for keeping longer than any others. This may be accounted for by the water being more shallow than on other beds. As many as four thousand dozen have been caught by one craft in a day. Small oysters were found on the outskirts, the bed apparently increasing in all directions.

Bed No. 2, or Ruapuke Bed.

Length, 2 miles, by $\frac{3}{4}$ mile wide; average depth, $13\frac{1}{2}$ fathoms. Discovered about 1892. Oysters are of a good quality, although quantities of dead shells are found, and abundance of starfish.

Bed No. 3, or Dog Island Bed.

Length, about $3\frac{1}{2}$ miles, by $1\frac{3}{4}$ miles wide; average depth, 15 fathoms. Discovered about 1898. Oysters of a good quality, and medium size. The bed has been worked occasionally since found.

Bed No. 4.

Length, 2 miles, by $1\frac{1}{4}$ wide; average depth, about 14 fathoms. Discovered about 1880. The oysters on this bed are of a poor quality, and great quantities of dead shells and seaweed were found. No oysters were taken off it for over twenty years.

Bed No. 5.

Length, about $4\frac{1}{2}$ miles, by $2\frac{3}{4}$ miles wide; average depth, 17 fathoms. Discovered in 1885. The bed has been worked occasionally during the open seasons. Oysters are large, and of a good quality, and the bed is more free from dead shells than the preceding ones.

Bed No. 6.

Length, about $2\frac{1}{2}$ miles, by 1 mile wide; average depth, 17 fathoms. Discovered about 1889. This bed is really a continuation of No. 5 bed.

Bed No. 7.

Length, about $2\frac{1}{4}$ miles, by 1 mile wide; average depth, 18 fathoms. Discovered about 1882, and worked for several seasons. It was then abandoned on account of the oysters being small, and the rough nature of the bottom.

Bed No. 8, or Half-moon Bay Bed.

Length, 1 mile, by $\frac{1}{2}$ mile wide; average depth, about 23 fathoms. Was discovered about 1870, and was one of the earliest worked. Very few oysters were found, the bed appearing to be overgrown with seaweed, &c. In the early days two hundred dozen was considered a fair day's catch off this bed.

Bed No. 9, or Port William Bed.

Length, $\frac{1}{2}$ mile, by $\frac{1}{2}$ mile wide. Was discovered shortly after No. 8. Owing to the rough nature of the bottom, it was impossible to get the exact area, dimensions here given being only approximate. Quantities of dead shells were found, the oysters appearing to have died off considerably.

Bed No. 10.

Length, about 7 miles, by 2 miles wide. Discovered during the present survey, on the 27th January, 1906. Although oysters were known to exist in that direction, the bed had never been previously located. The oysters found there were in excellent condition, and remarkably free from dead shells, &c. This, no doubt, will be a favourite bed in the near future.

Bed No. 11.

Length, $1\frac{1}{2}$ miles, by $\frac{1}{2}$ mile wide; average depth, about 20 fathoms. Discovered recently. Oysters are of poor quality, with large quantity of dead shells. Owing to its great distance from the Bluff this bed is never likely to become popular.

Bed No. 12.

Length, $2\frac{1}{2}$ miles, by 1 mile wide; average depth, about 20 fathoms. Discovered on the last day of this survey. The oysters are of a good quality, though small. It is probably a newly formed bed.

We found, generally, quantities of dead cockle-shells on the northern side, and quantities of seaweed on the southern side. The oysters found on the outskirts of all the beds were in clusters, and smaller than those in the middle of the beds. This clearly demonstrated that the beds are extending in all directions.

There is no doubt that oysters are to be found by following the trend of the current further to the westward than the beds marked on the chart, but as the s.s. "Despatch" was required for the oystering at the beginning of February, we were unable to make a more extensive survey. However, beds at a greater distance than those already located are never likely to become popular.

Trusting that the foregoing report will meet with your approval,

The Secretary, Marine Department, Wellington.

J have, &c., R. C. Hunter

RETURN showing Amounts paid to DISABLED SEAMEN, under Section 119 of "The Shipping and Seamen Act, 1903," for Year ended 31st March, 1905.

Name of Seama	n.	Name of Vessel.	Nature of Injury or Illness,	Amount paid for Wages, Maintenand &c.
. –		m.	Information of -to	£ s. 6 16
anderson, E		Totara, scow	Inflammation of stomach	6 16 46 18
asen, I	• •	T. K. Tobiasen Wakatu, s.s	Inflammation of bladder	7 0
ndstrom, J	• • •	Wakatu, s.s Margaret, scow	Injured finger	10 0
nderson, C rown, W		Baden Powell, s.s.	Injuries varicose veins	24 10
eaton, J.		Welcome, schooner	Pleurisy	7 8
ell, R.		Elizabeth Graham, barque	Broken thigh	31 12
urns, F.		Clansman, s.s.	Severe cold and results	21 4
alding, C		Rarawa, s.s	Stomach hurt	20 6
ridson, J		Pateena, s.s	Injured knee	7 16
urnett, J		Te Kapu, s.s	,, foot	5 4
ımpbell, R		Tokomaru, s.s	Pleurisy	7 7
mpbell, R	• •	Muritai, s.s	Injured ankle	12 0
arrick, F	• •	Baden Powell, s.s	Sprained foot Poisoned finger	8 11
asey, J	• •	Rotomahana, s.s	Internal injuries	7 8
astel, A		Seagull, scow	Crushed hand	11 1
ooney, P. F. M.		Rakanoa, s.s.	Injured arm	4 4
onstance, W		Rarawa, s.s	Finger-nail torn off	6 14
oyle, J.		Moeraki, s.s	Bruised back	6 15
oncaster, E. J.		Star of Australia, s.s	Broken thigh	31 11
algarino, J		Navua, s.s	Poisoned hand	20 7
aniels, W		Ngapuhi, s.s	Injured toe	8 6
avis, M		Star of Australia, s.s	Appendicitis Broken collarbone	19 16 15 3
onovan, J	• •	Paeroa, s.s	T	13 3
nright, M	• •	Wimmera, s.s	Injured ear Enteric fever	40 3
TTT	• •	Stella, s.s.	Hurt back	6 15
vans, W		Talune, s.s.	Poisoned hand	30 1
erara, V	• • • • • • • • • • • • • • • • • • • •	Cygnet, s.s	Broken rib	Passage to p
	••			of discharge.
isher, D		Storm, s.s	Crushed finger	8 4
anse, F		Zelateur, ship	Hurt side	2 6
raham, F		Muritai, s.s	Top taken off finger	26 0
all, S		Defender, s.s	Rheumatic fever	8 18
alliday, J	• •	Volador, barque	Broken leg	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
anward, F	• •	Endeavour, schooner	Typhoid Enteric fever	25 19
annah, J	• •	Pukaki, s.s Arahura, s.s	Injured hand	16 16
ayes, J		Rarawa, s.s.	Bruised hand	8 8
ull, R.		Poherua, s.s	Appendicitis	31 10
urst, F	• • •	Star of Australia, s.s	Diseased elbow	13 11
anson, K. E		Lizzie Taylor, schooner	Broken arm	35 16
erome, D		Rotomahana, s.s	Sprained ankle	11 9
ones, T		Waverley, s.s	Crushed fingers	Passage to p
. 1 177		Victoria co	Inflammation of lungs	of discharge 10 4
irk, W	• •	Victoria, s.s	Inflammation of lungs Burnt hand	6 1
ruger, C	••	Taviuni, s.s	Injured leg	21 5
yle, R andreth, F		Hawke's Bay, s.s.	Dysentery	12 16
ake, C	• • • • • • • • • • • • • • • • • • • •	Moonah, ketch	Hurt shoulder	6 0
ang, C.	• • • • • • • • • • • • • • • • • • • •	Eliza Firth, brigantine	Renal rupture	Still in hospita
alley, J.		Wellington, s.s	Broke two ribs	17 7
arks, Miss J		Rarawa, s.s	Scalded foot	11 0
askell, J		Maheno	Injured	5 8
iffen, R		Monowai, s.s	Bruised leg	7 9
oore, J		Corinna, s.s	Muscular rheumatism	7 5
ouat, H	• •	,,	Fractured skull	8 18 20 13
ludie, J	• • •	Rakanoa, s.s	Cut leg	20 13 20 7
lurphy, J	• •	Navua, s.s	Strained back	37 2
IcConnell, J	• •	Somerset, s.s.	,, ankle	6 19
cKeon, J		Hawke, schooner	Sprained ankle	33 1
cKenzie, R.		Moeraki, s.s.	Syncope	28 18
cKinnon, G. A.	• • •	Monowai, s.s	Appendicitis	29 1
IcLennan, D		Navua, s.s	Pneumonia	9 14
cLeod, Ń		Rona, barque	Crushed foot, causing decay of bone	28 6
apoleon, S		Akaroa, s.s.	Strained back	9 17
elson, C	• •	Casabianca, ship	Senile decay	12 2 15 17
ewlove, W	• • •	Mangapapa, s.s.	Pneumonia	16 11
akland, S	• •	Mokoia, s.s. Paparoa, s.s.	Sprained wrist	Still in hospita
erham, J ratt, A	• •	Wakatu, s.s.	Injured right arm	21 6
ratt, A ratt, W	• • •	Rakanoa, s.s.	Crushed hand	4 17
ierens, J.	• • • • • • • • • • • • • • • • • • • •	Tanawai, s.s.	Finger put out of joint	7 0
egan, R	••	Warrimoo, s.s	Pleurisy	23 12
eid, D		Selwyn Craig, barquentine	Both feet hurt	10 0
obinson, C		Rotoiti, s.s	Heart failure	48 4
		DE start was	Punture	(Since dead.
out, G	• •	Muritai, s.s	Rupture Scalded foot	11 17
ambergh, F	• •	Hawk, scow	1	7 3 5 6
elstrom, C. F	• •	Kahu, s.s	(T A	23 17
mith, B	• • •	Haupiri, s.s Moura, s.s	C1 - 1 C	13 8
mith, C	• •	Moura, s.s	Crushed finger	Still laid up.
mith, J. M	• •	Hauroto, s.s.	Injured right leg	6 19
mith, H	• •	Rarawa, s.s.	Crushed finger	7 15
nclair, J.	• • • • • • • • • • • • • • • • • • • •	Morning Light, s.s.	Sprained foot	7 14
parks, G	• • • • • • • • • • • • • • • • • • • •	Waikare, s.s	Influenza	3 10
		i .		1

RETURN showing Amounts paid to Disabled Seamen-continued.

Name of S	eaman		Name of Ve	ssel.		Nature of	Injury o	Illness.		Amount pa Wages, Maint &c.		
	~~~					D		.1		£	8.	
CU 1 337			TT:			Brough			• •	1,235		
Strachan, W.	• •	• •	Himitangi, s.s.	• •	• •	Sprained leg	• •	• •	• •	15	9	_
Strilbey, R.		• •	Glenelg, s.s.	• •	• •	Jammed finger		• •	• •	$\frac{2}{2}$	17	8
Sundstrom, W.	• •	• •	Star of Ireland, s.	8.		Inflammation o	i knee			5	16	
Swan, J.	• •		Maheno, s.s.	• •	• •	Crushed hand	• •	• •	• •	9	8	
Swindley, J.			Victoria, s.s.	• •		Cold and fever	• •	• •	• •	12	3	
Symes, W.			Rarawa, s.s.			Injured hand	• •			6	19	-
Thompson, J.			Echo, seew			Bruised ankle				17	9	6
Thomson, J.			Hawea, s.s.			Sprained ankle				4	15	-
Thompson, J.			Hawea, s.s.			,,				6	6	6
Thomas, C.			Te Anau, s.s.			Poisoned hand				12	14	6
Toole, J. C.		., !	Kanieri, s.s.			Broken rib				15	7	0
Tornblom, K.			Rotomahana, s.s.			Rupture				35	15	0
Treanor, H.		., 1	Somerset, s.s.			-,,				8	7	6
Tullock, T.			Moana, s.s.			Injured foot				43	10	0
Turner, T.			Rotoiti, s.s.			Bruised back				5	10	- 8
Welcome, J.			Taieri, s.s.			Injured back				5	14	3
Warnock, J.			Brisbane, s.s.			Hurt by fall				13	6	Ó
Wheatley, J. H.			Te Kapu, s.s.			Injured foot				6	18	0
Whelan, W.			Moeraki, s.s.			Pleurisy				13	17	2
White, H.			Stella, s.s.			Heart strain				0	18	- 8
White, T.			Ngapuhi, s.s.			Fractured rib			, ,	13	18	_
Whyte, J.		1	Kaituna, s.s.			Lung disease				5	4	
Wildman, E. M.	• •	•••	Alexander, s.s.			Crushed finger				8	6	
Williams, E. M.		• •	Kent, s.s.	• •		Broken arm		• •		32	16	
Wishart, D.	• •	• • •	Waikare, s.s.	• •	• •	Bruised back			• •	8	7	10
Wishand, D.	• •	• • •	mainaio, s.s.	• •	• • •	DI HISOU DRUK	• •	• •	• •			- 10
						Total				£1,547	14	4

RETURN of CERTIFICATES of SERVICE, as MASTERS, issued during the year ended 31st March, 1906.

Name	of Perso	n,			Class of Co	ertificate.		Date of Is	sue.	No.
P					<del>                                     </del>			1905.		
George Foster					Restricted			17 April	[	270
					Home trade			,,		270
					Restricted			,,		270
					,,			,,		$\overline{270}$
					Home trade		• • •			270
^ - <del>-</del> - * <del>-</del> -					Restricted			,,	1	271
	• •		• •	• •		••	• • •	**	• •	271
	• •	• •	• •	• •	,,			**	• • •	271
	• •	• •	• •		Home trade	• •	• •	,,	••	$\frac{271}{271}$
	• •	• •	• •		Home trade	• •	• •	,,	• •	271
	• •	• •	• •	• •	Donatario de al	• •	• •	,,	••	
ohn Leonard Anderson		• •	• •	• •	Restricted	• •	• •	,,	••	271
				• •	,,,	• •	• •	,,	••	2710
				• •	Home trade		• •	,,	•• }	271
				• •	Restricted	• •	• •	,,	• •	2713
					,,	• •		,,	••	2719
					,,		• •	,,		272
					,,			,,		272
					Home trade			,,		272
Villiam Pelley					Restricted			,,		272
					,,			,,		272
					Home trade			,,		272
Robert Dudley								,,	]	2720
- · · ~ *					Restricted			,,		272'
					Home trade			,,	1	272
					Restricted			,,		272
										273
	· •				Home trade		• • •	,,	::	273
			• •		Restricted			,,		273
Villiam John Copeland .	• •	• •	• •	• •				,,	••	273
		• •	• •		,,	• •		,,	}	273
				• •	,,	• •	• • •	"	'	$\frac{2739}{2738}$
	• •	• •	• •	• • •	,,	• •	• • •	,,	• •	273
		• •	• •		,,	• •	• • •	"	••	
		• •			,,	• •	• • •	**	•• i	273
ohan Emil Isedor Johanse		• •			Home trade	• •	• •	,,	• •	2738
					,,		• •	,,	•• }	2739
					,,			,,	• •	2740
Charles William Bradshaw					• • • • • • • • • • • • • • • • • • • •			,,		274
oseph Moura					Restricted			,,		274
rank Andrews					, ,,			,,		2743
ohn G. M. Gibbs					Home trade			,,		274
Villiam Robertson					,,			,,		274
					,,			,,		274
					,,			,,		274
								,,	]	2748
harles Waterford Attrill					Restricted			,,	[	2749
Richard Evanson Beamish										2750
		• • • •			Home trade			,,		275
eorge Henry Proston					j.			,,	1	2759
	, , , ,			• •	,,			,,	••	275
Villiam Bolasses Dixon		• •	• •	• •	,,			,,	••	$\frac{275}{275}$
		• •		• •	Postnicked	• •	• •	,,	•••	$\frac{275}{275}$
ames Piercy	• •	• •	• •		Restricted	• •	• •	,,	••	$\frac{2756}{2756}$
		• •	• •		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	• •	• •	**	••	
		• •	• •	• •	Home trade	• •	• •	,,	• •	275
				• •	,,	• •		,,		2758
Edwin McGerney .					,,			,,		2759

RETURN showing the Total Ordinary Expenditure of the Marine Department during the Financial Year ended the 31st March, 1906.

Natura	of Expend	liture.			Details.	Totals.	Grand Totals.
Manure	or mahone			<del></del>			
Salaries of Head Office Sta	aff	••			£ s. d.	£ s. d. 1,504 4 1	£ s. d. 1,504 4 1
Harbours :—							
Manukau,—							
Salaries		• •			468 0 0		
House-rent			••	• •	24 0 0		
New beacon		••	• •	• •	74 19 6 70 2 4		
Repairs to dwelling Contingencies		••	• •	• •	116 14 3		
Russell,—	••	••	•••	•		753 16 1	
Contingencies			• •	• •	••	9 13 0	
Hokianga,—					328 0 0		
Salaries Repairs to flagstaff	••	• •	• •	• • •	36 1 6		
Contingencies			••	••	31 5 0		
Kaipara,—						395 6 6	
Salaries	••	••	• •	• •	508 5 5 28 0 0		
House-rent New beacons	• • •	•	• •	• • •	14 15 0		
Contingencies		••			100 5 7		
Opunake,—						651 6 0	
Salary	• •	• •	• •	• •	••	25 0 0	
Foxton,— Salary					170 0 0		
Contingencies			••		35 12 8		
Mokau,					40.00	205 12 8	
Salary		• •	• •	••	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		
Grant for snagging Wairau,—	punt	• •	• •	••	40 0 0	85 0 0	
Salary					145 0 0		
Additions to house			.,		23 2 0		
Contingencies	• •	• •	• •	• •	20 14 6	188 16 6	
Havelock,— Grant for wharf		••			300 0 0	100 10 0	
Contingencies			• • • • • • • • • • • • • • • • • • • •	• •	2 13 9		
Motueka,—						302 13 9	
Salary	••	• •	• •	• •	10 0 0 13 13 6	1	
Contingencies	• •	• •	• •	• •	13 13 6	23 13 6	
Waitapu,— Salary					25 0 0	20 10 0	
Maintenance of ligh					50 0 0		
Sundries	••	• •	• •	• •	6 15 3	81 15 3	
Collingwood,— Salary					35 0 0	01 10 0	
Removal of snags			••	••	8 17 6		
Contingencies		• •	••		5 4 0	10 1 0	
Karamea,—					60 0 0	49 1 6	
Salary New signal-box, &c		• • • • • • • • • • • • • • • • • • • •	••	• •	75 0 0		
Contingencies	• ••				32 10 0		
Okarito,—						167 10 0	
Salary		• •	••	• •	75 0 0 509 3 8		
Removal of pipi ba Cutting channel in		• • •	• •	• •	29 0 0		
Contingencies					22 13 0		
Okuru,—					00 0 0	635 16 8	
Signalling	• •	• •	••	• •	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		
Contingencies Little Wanganui,—	••	• •	••	••	12 0 0	32 0 0	
Signalling					21 0 0		
Removal of snags			••	• •	4 19 0	25 10 0	
Waikawa,—					10 0 0	25 19 0	
Salary Contingencies	• • • • • • • • • • • • • • • • • • • •			• • •	2 17 6		
Riwaka,—			-			12 17 6	
Maintenance of lig	hts	• •		••	••	20 0 0	
Picton—						4 5 0	
Contingencies Kawhia,—	• • •		••	••		* 0 0	
New beacon					16 8 0		
<ul> <li>Maintenance of light</li> </ul>	ats	• •	••	• •	59 6 3	mp 4. 0	
Puponga,						75 14 3   8 13 6	
Contingencies Rangitikei,—	•••	••	••	••		0 10 0	
Contingencies		••	• •			18 4 10	
_	_	•				F0- F 0	
Stores, repairs to buoys	, and sur	dries	• •	• • •	•••	561 7 9	4,334 3 3
					ļ		±,000 ± 0
Carried for	ward	• •	••			• •	5,838 7 4

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

Nature of Ex	kpenditu:	re.			Detail	ls.	Totals.	Grand Totals
					£	s. d	£ s. d.	£ s.
Brought forwar	rd						• • •	5,838 7
ghthouses:—								
Salaries of keepers	• •	• •	• •	••	9,342			
Oil	• •	• •	• •	••	1,678			
Stores and contingencies		• •	• •	• •	3,628			
Keepers' travelling-expenses Lighthouse artificer	• • •	• •	• •	••	$\frac{147}{220}$	3 5		12 012 1.
perintendents of Mercantile M	Iarine :-	_		-				15,015 14
Salaries	•••				1,140	12 4		
Assistance					318		1	
Contingencies	• •	••	••	••	202	13 1	1	1,661 5
sheries :—				!			-	1,001 0
Protection of fish and oyster	rs.—							
Salaries	• •				566	11 7	·	
Travelling-expenses					154	16 4		
Contingencies	• •	• •	• •	••	92	<b>15</b> 0	814 2 11	
Import of salmon-ova					257	2 11		
Import of whitefish-ova		• •	••		322	18 7		
Hakataramea Salmon-hatch	ery,							
Salaries	••	• •		!	292	0 0		
Contingencies		•: .			107			
Supply of fish-ova and acclir			h, animal		141			
Collection, &c., of rainbow t Survey of Foveaux Strait oy	ster-bed	1 S	••		91 55	3 3		
•				ļ-	250		_ 1,267 14 8	
Grant to Portobello Fish-hat Grant to Hokitika Fish-hato		• •	• •	•• '	250 27	$\frac{0}{5}$ 0		
		• •					277 5 0	
eather-reporting :—				1				2,359 2
Salary	••	• •	••	••		0 0		
Contingencies	• •	• •	• •		72	13 10	-1	422 13
								·
Less credits to vote								$25,297 3 \\ 130 5$
2055 0104145 10 1010 1.	••	••	••	••	• •			
vernment steamers:—					5 1/1E	٠.		25,166 18
Working-expenses, s.s. "Hi	nemoa ''	• • •	• •	•••	7,167			
Repairs and renewals, s.s.			• •	•••	$\frac{3,644}{4,339}$			
Working-expenses, s.s. "Tu	tanekai	•••	• •	••	4,559		15,151 2 9	
Less amount of freights, par	ssa <b>ge</b> s, d	tc	••	• •	• •		482 9 1	14,668 13
scellaneous services :—				-				,
Coastal buoys and beacons					129	2 8		
Survey of coast by H.M.S. "	Pengun	1,'' to 31	ist March	, 1904	7,267	7 8 7 11		
Departmental travelling-exp	enses	••	• •	••	13 200	0 0	1	
"N.Z. Nautical Almanae"  A, B, and C Azimuth Tables		••	••	••	65			
Checking overcrowding of st		and low	al avnange	s	317			
Charts and books	··	and logo	и отрепа		138		The state of the s	
Examination of masters and		_contin	gencies		37			
Inquiries into wrecks and ca					184			
Survey of unseaworthy ships		••	••		1	1 0	1	
Relief of distressed seamen					81		1	
Fog-signals		• •			235		1	
Removal of snags, Lake Mal					126		1 i	
Improving and protecting en				ver		0 0 5 0	1	
Charter of s.s. "Aorere" to		Jeb	••	••	33 79		1	
Boiler test-gauges and appar Sundries		••	••	••		11 2		
Culturion	••	••	••	-	200		9,407 3 7	
Less credits to vote	••		• •				339 13 5	0.007.10
								9,067 10

RETURN showing the Cost of Maintenance of the New Zealand Lighthouses, and the Quantity of Oil consumed at each, during the Year ended the 31st March, 1906.

								Oil.			Store	8		
Name of Lig	ghthous	se.		Sala	ries.		Gallons consumed.	7	alue.		and Continger		Totals.	
				£	8.		Gals.			d.		s. d.	£	s. c
Cape Maria van Dieme	n		•••		17	3	921		66 9			4 1	557	5
Moko Hinou		••	••	323		4	859		61 14		127	7 8	512	
Tiritiri				237		10	685		49 4			4 2	344	6
Bean Rock				160	0	0			3 8		23	4 5	186	
Ponui Passage				181	4	8	80		5 15		,	94	225	9
Cuvier Island				309	6	8	1,330		95 11	10	145 1		550	
East Cape			• • .	308	1	2	860		61 16			6 7	487	
Portland Island				356	4	2	732		52 12			9 11	497	6
Napier Bluff				20	0	0	Gas		9 10	6		0 6	30	1
Cape Palliser				281	3	8	880		3 <b>3</b> 5	0	73	2 0	417	10
Pencarrow Head	• •			254	3	4	883	!	53 <b>9</b>	4	168	0 6	485	13
Somes Island				140	Ō	0	648		46 11	6	23 1	2 6	210	4
Cape Egmont		• • •		280	ŏ	0	578		11 10	11	79	68	400	17
Manukau South Head		••		219	1	2	561		40 6	5	(b)295 1	1 0	554	18
Manukau South Head		α₋liαhte			_	- 1	162		11 12	11		4 5	16	7
Manukau North Head			• • • • • • • • • • • • • • • • • • • •	100	0	0	231		$16 \ 12$		30	5 6	146	17
Kaipara Head				225	ŏ	ŏ	572		11 2		141 1		407	13
Brothers	••	• •	••	414	5	2	737		52 19	-	(c)181 1		649	3
Fory Channel leading-l	:	••	• •	90	ő	õ	160		11 10	_	( )	4 3	107	_
	•	• •	• • •	243	1	ŏ	564		40 10	-		0 2	410	
Cape Campbell	• •	• •	•••	257	4	ŏ	524		37 <b>1</b> 3	-		8 6	367	5
Godley Head	• •	• • •	• • •	270	0	ŏ	552		39 13	_		8 6	440	2
Akaroa Head	• •	• •	•••	160	0	ő	176		12 13	_	(g)49 1		222	_
Jack's Point	• •	• •	•••	256	8	0	564		40 10			4 9	392	
Moeraki	• •	• •	• •		0	0	626		44 19	_		5 10	409	5
Taiaroa Head	• •	••	••	270	_		1		44 19 47 0		64 1		871	_
Cape Saunders	• •	• •	•• (	260	0	0	$654 \\ 942$		17 0 187 14			0 3	574	
Nugget Point	• •	• •	• •	363						_		5 7	352	2
Waipapapa Point	• •	• •	• •	250	0	0	624		44 17				461	ó
Dog Island		• •	• •	301		1	810		58 4		100 1			-
Centre Island	• •		••	304		2	870		62 10		105 1		473	4 1
Puysegur Point		• •	•• *	338		11	921	ì	66 3		(k)298 1		703	6
Hokitika			• •	12	0	0	Gas		10 17			6 6	23	
Cape Foulwind		• •		247		4	573	1	41 3	_	1 ()	7 6	351	9
Kahurangi Point				352		4	977		70 4	_	(m)184 1		607	
Farewell Spit				390	0	0	650	ı	46 14		96 1		533	6
Nelson				290		0	240		17 5	_	30 1		337	
French Pass			• •	170	0	0	164		11 15	_	39 1		221	
Stephen Island	• •	• •	••	348	15	6	1,705	1	22 10	11	133 1	.8 5	605	4 1
Totals		• •		9,342	0	7	23,015	1,6	78 C	2	3,628 1	0 5	14,648	11

⁽a) Of which £13 1s. 1d. is for repairs. (b) Of which £254 17s. 7d. is for repairs. (c) Of which £75 16s. 8d. is for provisions. (d) Of which £34 15s. 6d. is for repairs. (e) Of which £24 is for repairs. (f) Of which £71 7s. 7d. is for repairs. (g) Of which £7 7s. 11d. is for repairs. (h) Of which £12 18s. 4d. is for repairs. (i) Of which £43 11s. is for repairs. (l) Of which £45 4s. 2d. is for repairs. (k) Of which £137 18s. 2d. is for repairs. (l) Of which £7 14s. 8d. is for repairs. (m) Of which £62 is for clearing bush on lighthouse reserve.

RETURN showing the Cost of Erection of the New Zealand Coastal Lighthouses.

Name of	Lighth	ouse.		Cost of Erec	etio	n.
				£	s.	d.
Pencarrow Head		• •	• •	6,422	0	4
Nelson				<b>2,</b> 824	8	9
Tiritiri		• •		5,747	7	2
Mana Island*		• •		5,513	0	1
Taiaroa Head		• •		4,923	14	11
Godley Head				4,705	16	4
Dog Island				10,480	12	8
Farewell Spit				6,139	11	8
Nugget Point				6,597	3	7
Cape Campbell				5,619	2	6
Manukau Head			[	4,975	2	4
Cape Foulwind				6,955	9	1
Brothers				6,241	0	0
Portland Island				6,554	14	5
Moeraki					13	2
Centre Island				5,785	19	0
Puysegur Point				9,958	19	5
Cape Maria van D	iemen			7,028	14	8
Akaroa Head				7,150	6	5
Cape Saunders			<b>~</b>	6,066	6	3
Cape Egmont†				3,353	17	11
Moko Hinou				8,186	5	0
Waipapapa Point				5,969	18	11
Ponui Passaget				·		
Kaipara Head				5,571	8	0
French Pass				1,427	17	5
Cuvier Island				7,406	16	11
Stephen Island				9,349	9	11
Cape Palliser				6,243	16	1
East Cape				7,594	8	8
Kahurangi Point				9,145		1
Jack's Point	• •			1,204	10	9
Cost of telegraph		o Tiritiri		1,085		6
Miscellaneous and				1,322	2	2
Total			,.	£191,840	12	1

^{*} Light discontinued; moved to Cape Egmont. † Cost of iron tower, lantern, and apparatus, which were removed from Mana Island, is not included in this. ; Built by Provincial Government of Auckland; cost not known in Marine Department.

RETURN showing the FRES, &c., received under the Shipping and Seamen Acts, the Merchant Shipping Act, the Sea-fisheries Acts, and the Harbours Acts, at Ports under the Marine Department during the Year ended 31st March, 1906.

Nature of 1	Receipts.			Amo	unt.	
Shipping and Seamen	Acts:			£	s.	d.
Fees for engagement	and dis	charge of	f sea-	2,606		1
men, and sale of f	orms			1,850	15	0
Survey of steamers a	ınd saiii	ng-vesse	IS			
Measurement of ship	os				6	
Examination of n	asters,	mates,	$\mathbf{and}$	302	2	6
engineers						_
Light dues				29,443		
Sundries				241		
Merchant Shipping Ac		• •		220	13	0
Harbours Acts :-						
Pilotage and port ch	arges			2,000	1	3
C dury monointe		• • •		390	9	2
Sundry receipts		••		384		
Sea-fisheries Acts	• •	• •	• •	304	11	U
Total		••		37,482	0	0

RETURN showing the Amount of Light Dues collected during the Year ended 31st March, 1906.

	Port.			Amount c	olle	cted
				£	s.	d.
Auckland				10,751	15	7
Onehunga				191	9	11
Whangarei				144	12	<b>2</b>
Russell				22	10	5
Mangonui				5	17	4
Whangaroa				2		4
Hokianga				19	2	- 3
Kaipara				267	. 9	1
Thames				76	. 3	5
Coromandel				14	9	5 2 5 2
Tauranga				32	0	5
Poverty Bay				629	5	2
Napier				762	0	5
New Plymouth				250	3	7
Waitara				59	12	8
Wanganui				148	11	9
Patea				15	9	6
Wellington				6,762	12	4
Wairau				21	9	6
Picton				459	5	4
Nelson				426	18	2
Westport				679	17	9
Greymouth				310	18	4
Hokitika				4	12	1
Lyttelton				2,570	4	2
Timaru				444	3	6
Oamaru				146	4	7
Dunedin				1,757	3	11
Bluff and Inverc	argill	• •		2,466	10	4
Tot	al			£29,443	11	2

RETURN showing the Amount of Pilotage, Port Charges, &c., collected during the Year ended 31st March, 1906.

Name of Por	t.	Pilot	age.		Port Ch		es,	Tot	al.	
		£	s.	d.	£	s.	đ.	£	s.	d.
Auckland*		746	17	3	7,089	2	2	7,835	19	5
Onehunga					211	10	6	211	10	6
Hokianga		94	0	3	6	4	10	100	5	1
Kaipara		125	0	3	1,103	15	6	1,228	15	9
Thames*		114	0	4				114	0	4
Gisborne*		6	0	0	1,344	2	જ		2	2
Wairoa*		116	17	6	4	2	6		0	0
Napier*		1,102	5	5		0	4	6,461	5	9
New Plymou	th*	84	15	1	203	0	8		15	9
Waitara*		108	3	2		3	9		6	11
Wanganui*		491	5	0		16	1		1	1
Patea*		62	2	5	15	15	0		17	5
Foxton		245	0	3				245	0	3
Wellington*	٠.	186	9		12,842	7	8	13,028	17	4
Wairau		214	9	8				214	9	8
Nelson*		2,357	16	2	318	<b>2</b>	6		18	8
Hokitika*					†45	9	6		9	6
Lyttelton*		9,525		8				16,731	16	2
Timaru*		2,822	18	4	-,		10	-,	3	2
Oamaru*					12,060	3	1	_,		1
Dunedin*		9,070	16	0	6,882	8	1	15,953	4	1
Invercargili*								•		
Bluff*	• •	3,729	18	0	2,123	19	- 8	5,853	17	8
Totals	••	31,204	1	5	50,565	18	4	81,769	19	9

^{*} Harbour Board revenue. † Tonnage rate on cargo.

RETURN of ESTATES of DECEASED SEAMEN received and administered in pursuance of the Provisions of "The Shipping and Seamen Act, 1903," during the Year ended 31st March, 1906.

		Name of Seaman.					Balance to Credit Estate on 31st Ma 1905.	of	Amount received.	Amount paid	Balance to Credit of Estate on 31st March 1906.
							£ s.	d.	£ s. c	. £ s. d	
Neilson							2 15	0	• •	••	2 15 0
Bennet Lissing		• •				••	10 0	6		••	10 0 6
Thomas Devin	е	• •				• •	3 3	6			3 3 6
H. S. Molvig							26 3	6		20 15 (	5 8 6
Fred Berger							10 13	5		5 17 6	4 15 11
Frank Rouse		• •							14 7 2	14 7 2	
Kenneth McKe	eizie								16 9 (	16 9 0	
Indrew Gray								+	6 8 2		6 8 2
ohn Fullen								Į	8 10 9	8 10 9	
. P. Coulson								- 1	9 17 6		9 17 6
. Jackman							·	1	16 13 4	16 13 4	
H. H. Smith								1	1 0 6	106	
W. Newlove								1	4 3 8	4 3 8	
Edward Robins	son				• •		l	1	41 15 (		41 15 0
Eric Anderson							١	- 1	7 11 (		
. McAlister									2 15 (		2 15 0
F. McNeil				••					2 15 (		2 15 0
Name unknow	n (late				••	• •		ı	2 7 8		2 7 8
– Hodder	•••	•••		•••					9 6 8		
T	otals						52 15	11	144 0 5	104 14 7	92 1 9

Return of Licenses as Colonial Pilots issued in pursuance of Section 190 of "The Shipping and Seamen Act, 1903," during the Year ended 31st March, 1906.

No. of License.	Date of 1	ssue.	Name of	Licensee.		Port of Residence	•	Date of E Lice:	
27	18 July,	1905	Richard Groombridge H	utt		Wellington		20 July.	1906.
28	20 June,	,,	Edward Wheeler		 	, ,		12 Aug.,	,,
31	20 Dec.,		Archibald Kennedy		 	,		21 Dec.,	,,
34	23 Feb.,	1906	Thomas Fernandez		 	Auckland		18 Dec.,	
36	11 Aug.,	1905	Hugh Paterson		 	Dunedin		11 Aug.,	

RETURN of LICENSED ADJUSTERS of COMPASSES in New Zealand.

Date of I	ssue.	Name of	Licen	see.			Address.
9 April,	1896	Frederick Macbeth			••		Dunedin.
l5 ",	,,	Robert Strang					"
5 May,	,,	George Urquhart Thomson					"
1 Dec.	,,	William Bendall					Wellington.
27 April,	1897	Frederic William Cox					Nelson.
27 May.	,,	Thomas Fernandez					Auckland.
27 July.	,,	Robert Hatchwell					Lyttelton.
1 Sept.,	,,	Arthur G. Gifford					Wellington.
l3 Aug.,	1898	Herbert John Richardson					,
26 April.	1899	Robert Heddleston Neville					
26 June,	1900	Charles Frederick Sundstrum	n				Dunedin.
27 July.	"	John Adamson					Auckland.
27 Nov		Thomas Basire	• •		• • • • • • • • • • • • • • • • • • • •		Port Chalmers.
27 March,	1903	George Samuel Hooper		• • • • • • • • • • • • • • • • • • • •			Wellington.
l9 Oct.		John McLennon McKenzie	••		• • •	• •	· ·
19 000.,]	"	SOUR PROPERTION MOISONSIG	• •	• •	• •	• •	"

RETURN of STEAMERS and OIL-ENGINE VESSELS to which CERTIFICATES of SURVEY were issued in New Zealand during the Year ended 31st March, 1906.

Name of Vessel.		ter.	Nominal Horse-power of Steam-engines and Brake Horse-power of Oil-engines.	Horse-power -engines.	Nature of Engines.	Nature	Class of	Min ber Clas Law be c	of fo ses req	ollov of C uire	ving rew	
		Tons Register	Nominal H of Steam- Brake Hos Oil-engine	Indicated of Steam-e	TWO OF BIGINGS	of Propeller.	Certificate.	Able Seamen.	Firemen.	Trimmers.	Greasers.	
Admiral Advance		82	28 8		Compound Non-condensing	Screw	River					
Advance		40	30		Oil-engines	,	Home trade	· i	::	::	• •	
Ahuriri	• •	31	17	٠: ،	Compound	,,	Extended river		.:	• • •	• •	
Akaroa Albany	::	43 8	28 8	54	Non-condensing	,,	Home trade River	2	1		• • •	
Alert (Auckland)	- 1		11		,,	,,	,,					
Alexander Alexandra		185 73	30	295	Compound Non-condensing	Twin-screw Paddle	Home trade River	4	3	::		
Antrim		35	17		Condensing	Screw	Kiver					
Aorere	$ \cdots $	49	$16\frac{1}{2}$	70	Compound	,,	Home trade	2	1	• •	• •	
Aotea (Auckland Aotea (Auckland		89 157	15 <b>33</b>	• •	Oil-engines	,	River"	2	• •			
Awaroa	'::		3		Non-condensing	Stern-wheel	,,					Towing.
Awarua		54 92	32	211	Condensing	Paddle Screw	Home trade	2 2	2	• •	••	
Baden Powell Beatrice		8	10	162	Non-condensing	Screw	Extended limits					Fishing-vessel.
Ben Lomond		33	15		Compound	"	River					
Blanche Bravo		18 11	9		Non-condensing Oil-engines	,,	Extended river	••	• •	• • •		First survey ; fish-
Diavo		**	••		On ongines		"		٠.,	• •	• •	ing-vessel.
Britannia		108	40	1 100	m.i1	Paddle	River	1.7		٠.	 3	
*Canopus Canterbury	::	835	$\frac{250}{24}$	1,109	Triple-expansion Non-condensing	Screw Twin-screw	Home trade Extended river		٠.	2		
Charles Edward		145	48	204		,,	Home trade	4	2			
Chelmsford		79 379	24 90	58 590	,,	Screw	,,	5	1 3	••	••	
Clansman Clara			21	390	Condensing	, ··	River"		٠.,			Launch.
Claymore		92	54		Compound	, ,	Extended river			٠.		
Clyde Condor		122	40 24	••	,,	Stern-wheel Screw	River	••	٠.	• •	•••	
Corinna		820		995	,	,	Home trade	7	3	2	3	
Coromandel	••	68			,,	,	River	• •	• •			
Countess : Cygnet		84 66	28 43	164	,,	"	Home trade	2		::		
*Daphne			1		Non-condensing	,,	River	$ \cdot $	٠.	٠.,	٠.	÷*
Defender *Despatch		$\frac{117}{24}$	36 20	144	Compound	,	Home trade Extreme limits	4	2		::	Fishing-vessel.
Despatch Dingadee		393		367	,,	Twin-screw	Home trade	5	3		::	Since sold out of
Data		19	13			Screw	Extended river					colony. Fishing-vessel.
Doto Duchess		95			Triple expansion	Screw	River					T ISHTHE-VERSEL.
Duco		25			~	,	Extended river	įi	• •			
Durham Eagle	• •	54 138			Compound	Paddle	Extended limits	3		··	::	
Echo		98	60		Oil-engines	Screw	Home trade	2				
Edina		4	6 3	•••	Non-condensing	,,	River	••	•••	٠٠		Towing only.
Eliza Elsie	::	 15		::	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	"	Extended limits			::	::	
Elsie Evans		6			Oil-engines	,,	TT 4 3 -		••		• •	
Emma Sims Endon		61 12	32 5	::	Compound	,,	Home trade	2		::		Fishing.
Energy		15	16	48	,	,	Home trade	1	1			
*Erin	••	• •	4		Non-condensing	,	River		• •	• •		Towing and cargo only.
Erskine		98	35		Compound	,,	,					Westport dredge.
Ethel J		20			- " ·	,,		2	2	•••	• • •	
Express Eva		36 7		150	Compound Oil-engines	,,	Home trade	2		::		Fishing-vessel. First survey.
Eveline			8		Non-condensing	,	,,					
Fairburn Fairy	••	68 <b>3</b> 3		::	Oil-engines Non-condensing	, · · · · · · · · · · · · · · · · · · ·	Home trade Extended river	::				First survey. Fishing-vessel.
Falcon			6		,	,	,,			١		2 102226 102201
Fanny	••	55 22	)	138 48		,,	Home trade	2	2	1	• • •	
Fingal Fire Float	•••		13		Non-condensing	"	River"	::	::			Fire-float and
_												towing
Freetrader Gael	::	94 55			Compound	Stern-wheel	Extended river	::	::			
Gannet		15	6	• • •	Condensing	,,	,,					
Gertie	•••	119 156		319 263		Twin-screw Screw	Home trade	4				
Glenelg Goldfinch			12	200	Non-condensing	" ··	River"			::	::	Fishing-vessel.
Gordon	••	9		••	Compound	,	Extended river		• • •	• • •	٠.	2
Gosford Greyhound		57 83		• • •	Oil-engines	,,	River Home trade	2			· ·	
Hamurana		24	3		Non-condensing	,,	River	٠.	١.,	١		Launch.
Haupiri		452	88	506	Compound		Home trade	6	3		١	1

Return of Steamers and Oil-engine Vessels to which Certificates of Survey were issued, &c.—continued.

					issued, &c	3.—continue	и.					
Name of Vessel		ter.	Nominal Horse-power of Steam-engines and Brake Horse-power of Oil-engines.	icated Horse-power Steam-engines.	Nature of Engines.	Nature	Class of	ber Cla La	of i	om Nollo of C quire ied.	wing Crew	3 7
Mame of Aesser	•	gis	HOH H	28	Mature of Engines.	of Propeller.	Certificate.	ي ا	اظ	138	<b>1</b>	Remarks,
		Tons Register.	Nominal of Stea Brake Oil-eng	Indicate of Stea				Able	Firemen	Trimmers.	Greasers.	
Hauroto		1,276	253	1,234	Compound	Screw	Foreign trade	8	3	2	3	
Hawea		1,114	104	922		,	roreign trade	7	3	2	3	
Heathcote		94	35		Compound	,,	River		٠.,			Hopper barge.
Hercules	• •	14	12	••	Oil-engines	,,	,	• •	• • •	• •		First survey; lighter.
Himitangi		149	45	224	Compound	,	"	4	2		٠.	ngmer.
Hinemoa		8	$6\frac{1}{2}$		Non-condensing	,,	,					Launch.
Hirere	٠.	32 200	16 60	•••	Compound	Twin-screw Screw	Home trade	5	• •	• •	••	
Huia (Auckland) Huia (Thames)	,	200	8	•••	Oil-engines Non-condensing	Screw	River					Towing only.
Huia (Wellingto	on)	69	23	120		,,	Home trade	2	2			<b>,</b>
Ida		12	10	22.	Non-condensing	,,	Extended river	• :		••		
Invercargill Ithaca	• •	123 13	50 9	221	- *	,,	Home trade Extended river	4	. ·	••	• • •	
Ivy	••	10	5		Oil-engines	<i>"</i> ···	River					First survey;
•						•						lighter.
Jane Douglas		75	22	71	Compound	,,	Home trade	2	1		• •	
J.D.O	٠.	88	28		*	"	Extended river	• •	• • •		• •	Dredging and towing.
John Anderson		36	20		,,							wing.
John Townley	• •	85	40		,,	Twin-screw	"					Cargo only.
Kaeo	• •	147	60		Oil-engines	Screw	Home trade	4	• •	• •	••	First survey.
Kahu Kahutai	•••	99	40 3 <del>1</del>	211	Compound	,	River	2	2		::	First survey;
itanuan.	••		20		••	*	141701	••	. ,			yacht.
Kaipara			4		Quadruple expan-	,,	• •	• • •				•
Kaituna		1,246	200	1,046	sion Triple expansion	,	Foreign	7	3	2	3	First N.Z. survey.
Kamona		903	117	736		,	Foreign trade	6	3			
Kanieri	• •	115	20	177	Compound	,	Home trade	4	2		• •	
Kapanui Kapiti	• •	75 80	32 35	180	,	,	Extended river Home trade	2	2	• • •	• •	
Kapui	• •	30	30		,	"	Extended river					
Karamea		12		25	,,	,,	Home trade	1	1			Formerly Snark.
Karoro	٠.	52	17	• • •		,,	River	••	• •	• •	• •	
Kate Katikati	• •	27	5 8		Non-condensing Condensing	,,	,,	::	• • •		• •	
Kawatiri			21		Non-condensing	,,	"					Launch.
*Kawau (Kaipara)		37	15		Compound	,,	Extended river				••	
Kawau (Aucklan Kennedy	id)	53 131	20 43	199	<i>"</i>	Twin-screw	Home trade	4	2	••	••	
Kestrel (Aucklan	nd)	203	43		,	Screw	River					First survey.
	,		14		,	,,	,, ,,					First N.Z. survey.
Kia Ora	4-1	157	65 24	366	Non condensing	Twin-screw	Home trade	4	3	• •	••	Marine
Kia Ora (Waika Kilmorey			11		Non-condensing	Stern-wheel Screw	River	• • •	•			Towing only.
Kina	• •	::	25		Oil-engines	,	Extended river					First survey;
Kini		702	130	679	Triple expansion		Home trade					fishing-vessel.
Kini Kiripaka	• •	75	24	108		,		6 2	3			
Kittawa	• • •	708	120	747	4	,	,, .,	6	3			
Kiwi	• •		3	795	Condensing	,	River	از.	٠.			
Koonya Kopu	• •	663	115 13	735	Triple expansion Non-condensing	Paddle	Home trade Extended river	6	3	••	::	Towing only.
Kopuru	••	28	20		"	Screw	River					Towing only.
Koroi	• •		9 <del>1</del>		Quadruple expan-	,,						First survey.
Votabi		9	18		sion Oil-engines		Extreme limits			ļ		Wighing wagel
Kotahi Kotiti	• •	42	14	• • •	Compound	<i>"</i> ···	Extended river	• •			::	Fishing-vessel.
Kotuku					•							
Kuaka	• •	33	90		Oil-engines	Screw	Extended river	• :	.:	• •		
Lady Barkl <b>y</b> *Lily (Nels <b>on</b> )	• •	89 23	20 7	84	Compound	Twin-screw	Home trade Extended river	2	1		••	
*Little George		4	4		Non-condensing	Screw	River					
*Little Jack			11		*		,,					Yacht.
Lomen	• •	68	6 35	• •	Compound	,,		••	•••		• •	First survey.
Lo ay Lyttelton	• •	39	80	••	" · ·	Paddle	Extended river					Tug.
Lyttelton			14	••	Non-condensing	Twin-screw						
Maheno	٠.	24	60	••	Cil-engines	Screw	River	••		••		First survey.
Mahutu Mana (Wellingt	on)	11 77	13 25	133	Compound	,	Home trade	2	2	••	••	Towing only.
Mana (Westport		51	90	100	· " · ·	Paddle	River	-				Tug.
Manapouri	• • •	1,288	800	1,559	,,	Screw	Foreign trade	8	6	3	3	
Manaroa Manahastar		78	24	139	,	,	Home trade	2	2		••	Dunden
Manchester Manganana	• •	866	160 28	201	,		Extended river Home trade	2	2	••	••	Dredge.
Mangapapa	• •	1 01	40	201	,, ,,		LIVING STAUE	2	Z	••1	• •	

^{*} Surveyed twice.

RETURN of STEAMERS and OIL-ENGINE VESSELS to which CERTIFICATES of SURVEY were issued, &c.—continued.

Name of Vessel.		ter.	orse - power engines and se-power of	icated Horse-power Steam-engines.	Nature of Engines.	Nature	Class of	Cla La	of i	um Nollo follo of ( quire ied.	wing Orev	3
A S A C A C A C A C A C A C A C A C A C		Tons Register	Nominal Horse-power of Steam-engines and Brake Horse-power of Oil-engines.	Indicated of Steam-e	Table of Magness	of Propeller.	Certificate.	Able	Firemen.	Trimmers.	Greasers.	Remarks.
Manuka . Manukau . Manurere .	i,	3,784 45	357 15 3½		Triple expansion Compound Quadruple expan-	Twin-screw Screw	Foreign trade Extreme limits River	11	9	6	3	First N.Z. survey
Manuwai .	. :	94	30		sion Non-condensing	Stern wheel	,					
Maori Mapourika .	•	118 718	$\begin{array}{c} 60 \\ 130 \end{array}$	128 1,186	Triple expansion	Screw	Foreign trade	4	2 3	2	3	
Mararoa . Maru	. 1	,381	530 4	3,425	Non-condensing	,	Foreign trade Extended river	8	9	6	3	Fishing - vessel
					11011-condensing	,		•	••	•	•••	formerly " Mi
Mascotte (Aucki'd Mascotte (Waikat			3 5			,,	River					randa.'' First survey.
Matuku Mavis	•	::	4 41		Non-condensing	,	,	••			::	·
May			3		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,		.:				Towing only.
May Howard . Mere Mere (Wai	i-"	55	45 3	::	Oil-engines Non-condensing		Home trade River					Yacht.
kato) Vere Mere(Kaipar			11		3							. • •
Moa` .	•	95	33~	181	Compound	,,	Home trade	2	2			
Moana Moerangi .		6 16	7 27 <del>1</del>	::	Non-condensing Oil-engines	,	River	••	• •		::	First survey.
Mokoia	. 2	1,154	255	3,596	Triple expansion	,	Foreign trade	10	9	6	3	m .
Motara Moturoa .		io	$\frac{4}{10}$		Non-condensing	,,	River	• •	• •		: :	Towing only
Mountaineer . Moura		$\frac{66}{.247}$	50 275	1,930	Compound Triple expansion	Paddle Twin-screw	Foreign trade		• •			
Mullogh .	- 1	46	15		Vertical	Screw	Extended river		::			Fishing-vessel.
Murihiku Muritai (Auckland	i	369 133	70 45	564 257	Triple expansion Compound	Twin-screw Screw	Home trade	4	3		::	First N.Z. survey dredge.
Muritai (Hokianga	L)		8		Non-condensing	,	River					arougo.
Naomi II Napier	i	48	19 30	89	Oil-engines Compound	,,	Extended river Home trade	2	1	!	::	Fishing-vessel.
Natone Naumai		50 29	$\frac{24}{12}$		<i>"</i> · · ·	,,	River	• •		••	••	First N.Z. survey
Nautilus .		29	18	65	,,		Home trade	1	i			
Navua Ngapuhi .		,813 299	$\frac{220}{160}$	$2,224 \\ 686$	Triple expansion	Twin-screw	Foreign trade Home trade	9 5	9	3,	3	First N.Z. survey
Ngunguru . Nina	.	54 7	$^{17}_{2}$	65	Compound	Screw	D. "	2	1	••		m: 1
No. 121		394	100		,	Twin-screw	River Extended river		• •	•••		Towing only. Dredge.
No. 222 Norval	:	502 50	$\frac{120}{20}$	557	Oil-engines	Screw	Home trade Extended river	5	3	• •	•••	Cargo and towin
)hinamuri	:	73	26		_			2	2	1		only.
Ohinemuri . Ohura		34	60	121	Compound	Twin-screw	Home trade River					
Omawi Ongarue .		14 10	20 65		Oil-engines	Sorew	,,	• •	• •		••	Lighter.
Onslow		16	14	١ إ	Compound	Twin-screw	Home trade	1	1			
Opawa Oreti (Wellington)	) !	64 117	18 50	56 192	,,	Screw	,,	$\frac{2}{4}$	1 2	• • •		
Oreti (Invercargil)		14	3		Non-condensing	,,	River			••	••	Lighter, first su
Orewa		37	17		Compound		,,			••;		vey.
Osprey	. [	138 46	70 15	66	,	Paddle Screw	Home trade	• • 2	1		• •	
Pania	•	27 355	11 71	45 425	Triple expansion	,	Extended river			••		Fishing-vessel.
Pateena .	- 1	550	250		Compound	,,	Home trade	5 6	6		3	
Pearl Pelorus	i	9 18	$\begin{array}{c} 6 \\ 12 \end{array}$		Non-condensing Oil-engines	,	River Extended river	• •	• •	••]	••	Towing only.
Pelican	.	1	<b>57</b>	256	Triple expansion	Twin-screw	Home trade	1	3	• •		
Penguin . Petone		517 388	180 82	831 565	Compound Triple expansion	Screw	,	6 4	3	2	3	
Phantom .		18 6	11 5	140		<i>"</i>	D:"	1	2			Fishing-vessel.
Pilot (Napier) .		11	13		Compound	,,	Extended river	••			::	Fishing vessel.
Stanta L		27 24	15 13 <del>]</del>		Triple expansion Condensing	,,	River			••	•••	
Planet	. !	13	8~		Non-condensing	. "	,,					
D - 1		29 749	40 128		Compound Triple expansion	<i>"</i>	Home trade	1 6	3		::	Tug.
n	•	200	3 50		Non-condensing	,,	River	٠.		• •	• •	Dunder
Pukaki		917	110		Quadruple expan-	<i>"</i>	Home trade	6	2	• •		Dredge.

RETURN of STEAMERS and OIL-ENGINE VESSELS to which Certificates of Survey were issued, &c.—continued.

	er.	ngines and se-power of	lorse-power ngines.		Nature	Class of	ber Cla Lav	imu of fo sses v rec	ollov of C juire	ving rew	
Name of Vessel.	Tons Register.	Nominal Horse-power of Steam-engines and Brake Horse-power of Oil-engines.	Indicated Horse-power of Steam-engines.	Nature of Engines.	of Propeller.	Certificate.	Able Segmen.	Firemen.	Trimmers.	Greasers.	NOMINE SO.
Purau Putiki	38 157	18 60	 367	Compound	Twin-screw Screw	River Home trade	4		::		
Queen of the South	121	40	191	The land and the land	,	Foreign trade	4 8	2 3	2	3	
Rakanoa Rarawa	1,393 460	$\frac{200}{140}$	$933 \\ 1,203$	Triple expansion	,	Home trade	6	3	2	3	
Result (Napier)	18	10		Compound	,,	Extended river	٠,		••	••	Fishing-vessel.
Rimu	144 34	95 16	521	Triple expansion Compound	,	Home trade Extended river	4	3			
Rob Roy Rosamond	462	90	410	" ··	,	Home trade	6	3	• •		
Rothesay	8	$\frac{4\frac{1}{2}}{2}$	••	Twinte errongion	,,	Extended river River	••	•••	••	• •	
Rotoiti (Auckland) Rotoiti (Dunedin)	630	$\frac{2\frac{1}{2}}{104}$	1,127	Triple expansion	Twin-screw	Home trade	7	3	2	3	
Rotomahana (Auck-		50		Compound	Screw	Extended river	•••	•••	••	• •	
land) Rotomahana (Dun- edin)	915	450	2,485	,,	<i>"</i>	Home trade	7	9	3	3	
Rubi Śeddon	349	60		Triple expansion	Twin-screw	River			••	••	Dredge.
Ruru Savaii	11 31	10 16	·   ::	Compound	Screw	Extended river		•••	•		Fishing-vessel.
Settler	8	7		Compound	,,	River	٠.	•••	••		First survey.
Shamrock	60	120		Oil-engines Compound	,,	Home trade	2			•••	Fishing-vessel.
Sir Wm. Wallace Sonoma		13		Non-condensing	,,	,					
Southern Cross	403	117		Triple expansion	Stern-wheel	Foreign trade River	6	3	::	••	Missionary vessel. Towing only.
Speedwell Squall	31 133	10 60	268	Compound	Screw	Home trade	4	3			First N.Z. survey.
Stella	157	90	250	,,	,,	,	4				Mar et
Sterling	26 186	39 70	294 268		"	"	1 4		••	::	Tug.
Storm Stormbird	137	40	231	,,	,,	, ,	4				
Sumner	94	35		Non-condensing	,,	River	::	::	::		Hopper barge.
Swan Sylph	16	10 8	::	Won-condensing	,	,,			١		Towing only.
Taieri	1,071		1	Triple expansion	D. 4410	Home trade	7	1	1	ļ	
Tainui Tainui	46 87		169	Non-condensing Compound	Paddle Screw	Home trade	2	2		l ::	
*Takapuna (Auck-	58			Non-condensing	Paddle	River		••			
land) Takapuna (Dun- edin)	472	165	1,337	Compound	Screw	Home trade	$ \epsilon$	6	3	8	
Taluné	1,370		1,987		m_"in course	Extended river	8	8 6		1	
Tangaroa Tangihua	110		::	Compound	A	River	::		::	1	•
Taniwha (Auckland	191	40	::	,	Twin-screw	Extended river	٠.	ļ	1	1	2
Taniwha (Timaru)	16	16 4		Non-condensing	Screw	River "		::		1	Dredge. Towing only.
Tarakihi Tarawera	1,269		1,535	Compound	,	Home trade	8	3 6			3
Tarewai	7	6	225	Non-condensing Compound	Twin-screw	River Home trade		2 2		•	
*Tasman Taviuni	910		1,021	Quadruple expan- sion		Foreign trade	7	7 8			
Tawera (Waikato)		8 40		Non-condensing Oil-engines	,	River		:			1
Tawera (Auckland) Tawera (Te Anau)	44	25	::	Non-condensing	"	,					
Te Anau	1,028		1,245	Compound		Home trade	8	3 -1		1	1
Te Kapu Terranora	199		99		Paddle	"	4	1 8	3	F .	1
*Theresa Ward	9	95	484	Triple expansion	Screw	Extended river		1 8	3		
Thistle Thomas King				Oil-engines Non-condensing	Screw	Extended river			1		Dundan
Timaru	011		299	Compound	Twin-screw	Home trade	4	1 3	3	1	. "
Tongariro	100		io	Non-condensing Compound	Screw	River Home trade		1 .	2 :		•
Torgauten	107	. 4	460	l —		Foreign trade			3	1	•
Taukau				Oil-engines	Twin-screw	River Extended river	. :	•  •			•
Tuariki	L 20		278			Home trade			3 :	1	First survey.
Tu Atu	30	48		Oil-engines	~	Extended river	1		1	Ť	Towing on!-
Tui Tuna (Gisborne)		$\frac{6\frac{1}{2}}{14}$	::	Non-condensing Compound	Screw Twin-screw		. :	: :		-	A
Tuna (Kaipara)	1	31/2		,,	Screw	River	۱.				. Towing only.
Uliera		35		Non-condensing	,,	,	•		• •		. Cargo and towing only.
Vaite				Oil-engines	. "	TT 1		2 .	- 1	,	
Vanora	13			Non-condensing	Paddle	TNZ		1 .		-	1
Victoria	92				Paddle	Kiver	. 1 •	• •			

^{*} Surveyed twice.

RETURN of STEAMERS and Oil-engine Vessels to which Certificates of Survey were issued, &c.—continued.

		rse-power ngines and se-power of	Horse power- engines.		Nature	Class of	ber Clas	of fo ses req	m N ollov of C uire ed.	ving rew	
Name of Vessel.	Tons Register	Nominal Horse-power of Steam-engines and Brake Horse-power of Oil-engines.	Indicated H of Steam-en	Nature of Engines.	of Propeller.	Certificate.	Able Seamen.	Firemen.	Trimmers.	Greasers.	Nemeras.
Vivid	6	13	]	Non-condensing	Screw	River					Cargo only.
	57	15	- 1	Oil-engines		Foreign trade	2				<b>----</b>
Waiapu	63	20	172	Compound	,,	Home trade	2	2			
Waihi	1.901		2.429	Triple expansion	"	Foreign trade	9	9	3	3	
	56	14	,	Non-condensing	Paddle	River					
Waikato	159	48	••	Compound	Screw	Extended river					
Waimarie (Auck-	109	40	• •	Compound	501011	Datended 11101		•	1	• • •	
land) Waimarie (Wanga-	65	26		Non-condensing	Paddle	River					
nui)	00	20		Trou-condended	2.000.00					1	
Wainui	411	95	642	Compound	Screw .	Home trade	6	3			
Waiora			66	"	,,	River					
Waiotahi	168	56	266	,	Twin-screw	Home trade	4	3			
Wairere	41	80		Non-condensing	Paddle	River					
*Wairoa (Nelson)	48	20	48	• "	Screw	Home trade	2	1			
*Wairoa (Kaipara)	63	40	[	Condensing	,,	,	2	2		••	
Wairua			66	Compound	,,	River					
	2,530	396	1,974	Triple expansion	,	Foreign trade	10	6	3	3	First N.Z. survey.
Waitangi (Auck- land)	34	62	414	Compound	Twin-screw	Home trade	2	3	• •	••	
Waitangi (Kaipara)		5		,,	Screw	River				• •	
Waitohi	18	1.0		,,	"	Extended river	••	••		•••]	
Waiwera (Kaipara)		6		,,	. ,,	River	••			••	
Waiwera (Henley)	i l	16		Oil-engines	Screw	_ "	••	• •	• • •	••	
Waiwiri		73		Non-condensing		Extended river	••	• •	•••	• •	Towing and fish
	1 1						1 1	- 1	' İ		_ing.
Wakapai		10		Compound	,	River	••	•.•	•••	• • •	First survey.
Wakatere	157	140		,,	Paddle	Extended river	•:	• •	• •	• •	
Wakatu	95	23	157	,,	Screw	Home trade	2	2	• •	• :	
Wanaka	1,572	280	1,140		,,	Foreign trade	8	3	2	3	a ,
Warkworth	24	10		Oil-engines	,,	River	1::	• •	• •	٠.	Cargo only.
Warrimoo	2,076	490	3,795		,,	Foreign trade	10	9	6	3	
Wasp	'	1	••	Non-condensing	,	River	••	• •	••	••!	Dlas mana manak t
Wave		$1\frac{1}{2}$	• •	·· <u>.</u>	· · · · · · · · · · · · · · · ·	TT."	.:	• ;	• • •	• •	Pleasure yacht.
Waverley	93	25	93	Compound	Twin-screw	Home trade	2	1	• • •	•••	
Weka (Auckland)	86	27		,,	Q"	River	2	· · i	• •	•••	
Weka (Napier)	53		90	,	Screw	Home trade	5		• • •	٠٠.	
Wellington	279		434		Paddle	"	2	3	• • •	٠٠.	Tug.
Westland	8	64	450	Condensing	Twin-screw	"	5	3		•••	Dredge.
Whakarire	449	120	655		l .	Foreign trade	8			3	- Lougo.
Whangape	1,901	280	1,121	Triple expansion	Screw	River	0	٦		ں ا	
*Whati		13	• • •	Non-condensing	,	Extended river	•••	٠.	• • •	• • •	Fishing-vessel.
Winona	11	8	••	Compound	Stern-wheel	River	1	• •	•••	••	Towing only.
Yankee Doodle		12	199	,,	-	Home trade	2	2	• •	•••	Lowing only.
Young Bungaree	47	35	133	,,	Screw	TTOTTO STORE	1 4		• •	• •	l

* Surveyed twice.

The compulsory-manning schedule of the Act does not apply to steamers and oil-engine vessels plying within river and extended-river limits.

RETURN of Intercolonial Sailing-ships to which Survey Certificates were issued during the Year ended 31st March, 1906.

		Tons	Class of	me	n Number en required w to be car	t .	Remarks.				
Name (	of Vessel.	Register.	Certificate.	Able Seamen.	Ordinary Seamen.	Boys.					
Alexander Craig Clan McLeod Defiance Elverland Ganymede Onyx		 520 646 199 361 569 396 222	Foreign-going " " " "	7 8 4 6 7 6 5	1 1 1 1 1 1 1	2 2 1 1 2 1	Formerly "Kathleen Hilda." First survey in New Zealand.				

RETURN of MASTERS, MATES, and Engineers to whom Certificates of Competency were issued during the Year ended 31st March, 1906.

30

			ÛLI	e lear ended a				<u> </u>			
Name of Person	١.			Rank.		Class of Certificate.	'	Date of	ssue.		No.
Henry Montague Garrick				Master, ordinary	1	_			1905		878
Henry Hamill		• .	• •	First mate Second mate	•••		• •	23 " 23 "	"	••	951 978
William Whiteford			• •	"	••	"		23 "	"	::	979
Alan Hamilton Macdonald			٠.	,,				29 "	"		980
William Sutton Gordon		•	• •	Timet make	• •	The state of the s	• •	29 "	~	••	981
Richard Newing	•	•	• •	First mate Second mate	• •	· ·		12 June, 26	"		982 983
Hereward Wilfred Doucette I	Bold .	:	::	First mate	•		• •	28 "	. ,,		934
William Bernard Robertson				Second mate	٠.	l .		28 "	"		984
Thomas Vivian Hill		•	• •	"	••		• •	3 July,	"	•• ]	985
Leonard Robertson James McKenzie			• •	First mate	• •		• •	15 " 15 "	*		986 955
Oscar Thimoteus Pettersson		:		Second mate				15 " 27 "	"		987
Maurice Evan Morris				"	• •			1 Sept.,	,,		988
James Baldwin		•	• •	First mate	• •	"	• •	5 ″ 7 Oct	"	• •	989
Gustav Herman Petersen William Donald Darling			• •	Second mate	••		:	7 Oct., 18 "	"	::	966 990
Ivan Vasta				,,				26 "	"		991
Thomas Bartlett Sewell			٠.	First mate		,,		2 Nov.,	"		992
George Percy Evans		٠_	• •	Mate	••	1	• •	15 "	"	•••	993
Donald Hastings Cambridge John Dowell	•		• •	Master			• •	15 " 23 "	"	::	994 995
Charles Wilson Cumming		:		,,	•	1		11 Dec.,	"		996
Gilbert Manson			٠.	Second mate	••		• •	20 ,	"		997
John Sinclair Stuart		•	• •	First mate	••		• •	23 2 Feb.,	1000	••	998
Andrew Risk Stewart Caleb Charles Williams	-		• •	Second mate	• •	· ·	• •	2 Feb., 17 "			999 1000
George Walton Somerwill		:	• •	First mate	• •		• •	28 ″	"		1001
John Farrell			٠.	Second mate	• •			28 "	.,		1002
Henry Warren Johnston		•	٠.	Master	٠.		• •	23 May, 23		••	5493
Charles Anderson Arthur Percy Gibson			• •	Mate	• •	"	• •	23 "	"	::	5497 5543
James Smith		:		,		''		23 ″	"		5544
Edward Martin Knudsen			٠.	,,		,,		23 "	"		5545
Robert Scollay		•	• •	Master	• •	t	• •	29 "	"	• •	5546
Walter Nicholas John McDonald Etheridge			• •	Master	• •	!	• •	6 June, 13 July,	"	::	5517 5547
Ernest Albert Burton		:		Mate	• • •	ł		27 "	"	$  \cdot  $	5548
William McIntosh			٠.	,,	• •	,,		4 Aug.,	"		5549
Robert Jackson Fowler		•	• •	,,	• •	-	• •	9 "	"	•••	5550
Samuel Jones Hans Johansen			• •	"	• •			23 "	"		5551 5552
Thomas Coupar				,,	• • •			24 "	"		5553
Hemen Walter Vile		•	٠.	* ••		,,		16 Sept.,	"		5554
William Gordon Scott		•	• •	,	••	=	• •	3 Oct.,	"	••	5555
Desmonde Ryall Probert Alfred Sandston			• •	Master	• •		• •	14 <i>"</i> 18 <i>"</i>	"	::	5556 5475
John Williams				,,				19 ″	"		5526
William Arthur Wildman						,,		3 Nov.,	"		5518
Mons Monson		•	• •	Mate	• •		• •	14 " 28 "	"	• •	5557
Lars Larsen James McDonald	•		• •	Master	• •	,,	• •		1906		5558 5481
Donald Joseph Teixeira	:		::	Mate		,,		24 "	,,		5559
Charles Daniel				Master		,		29 "	,,		5534
Frederick Jervase Lyons Rad			• •	Moto	••		• •	29 ,	"	•••	5560
Louis Belmont Vasta Charles U. F. A. Greenberg			• •	Mate Master	• •	i		2 Feb., 9	"		5561 5394
Henry Sauer	:	•	• •	Mate	• •			21 "	"		5562
Donald Rae		•	• •	<b>"</b>		i "		28 "	"		556 <b>3</b>
William John Grigg		•	• •	Master	• •		• •	15 March, 23	"	••	5564
Sofus Anton Miller Walter Thomas Brigden			• •	waster	• •		• •	29 "	"	::	5529 5515
Andrew McDougall				,		Diament Annual a			1905		3410
Ernest Paterson Saunders	٠.			,,	••	i		23 "	,, .		3411
William Sinclair Coutts		•	٠.	<b>"</b> ••	••		• •	23 "	"	••	3412
George Herbert Baxter John George Langton		•	• •	<b>"</b> ••	••		• •	29 " 29 "	"	••	3413 3414
William McKegg				" ··	• • •			26 June,	"	::	3415
Philip Robert Going		•		,	••			28 "	"		3416
Henry Richard Morse		•	••	,	••		٠.	10 July,	"	••	3417
James Duncan Campbell Bert Arthur Meyenberg			••	,	• •		• •	18 " 7 Aug.,	"	• •	3418 3419
Richard Jones			• •	"	• •		• •	6 Sept.,	"	::	3420
Frederick Hadfield			••	,	••	i		6 "	,,		3421
William Henry Dawson			• •	,	••	i		15 "	,,		3422
Hemen Walter Vile John Coleman		•	• •	" ••	••		••	4 Oct.,	. "	• •	3423
Thomas Samuel Joyce			• •	,,	• •		• •	26 "	"	::	3424 3425
Cecil Arnold Vause			••	,	••	ł		2 Nov.,	"		3426
Benjamin Bright		•	٠.	,	••			2 "	"	••	3427
William Ernest Tye Edward Jackson		•	• •	,	••	1	• •	16 " 28 "	"	••	9428
James William Patterson The		1	• •	"	• •	į		4 Dec.,	"		8429 3430
Robert Scollay			• •	,,		i .	• •	11 "	"		3431
								<u> </u>			

Return of Masters, Mates, and Engineers to whom Certificates of Competency were issued during the Year ended 31st March, 1906—continued.

Name of Pe	erson.		Rank.	Class of Certificate.	Date of Issue.
eorge Howe Cook			Master	River trade	29 Jan., 1906
dmund Joseph Reistere	r		Master	River trade	27 March, "
ohn Frederick Anderson		••	,		27
			3rd-class engineer	Foreign trade	12 May, 1905
			,	,	12 " "
ames Alexander Wilson			"	,	12 " "
Villiam Douglas Mathies	on	••		,	12 " "
		••		,	12 " "
	• •	••	i "		$\begin{vmatrix} 12 & " & " & \cdots \end{vmatrix}$
lister Strother Colvin		••	1-4-1-00 000000000	"	12 " "
erhard George Mueller		••	1st-class engineer 2nd-class engineer	1	23 " "
dward Looney, jun.		••	1st-class engineer	-	23 " "
1	• •		3rd-class engineer	1	0.0
obert Bernard Gerring		•• ••	1	"	03
	• •		,,	,	23 " "
	••		,,	, , , , , , , , , , , , , , , , , , , ,	23 " "
avid Hay Kirkwood Jon				<i>"</i>	23 " "
red Collier Cuff	• •		ļ	"	23 " "
lexander Fraser Foster			,, ,,		23 " "
larford Albert Edwin Ma				,	23 " "
amuel de Beer				, , , , , , , , , , , , , , , , , , , ,	6 June, "
Iichael Joseph McConvil	le		. "		16 "
	• •				16 " "
	• •		1st-class engineer	,	16 " "
	• •		2nd-class engineer		30 "
harles Edward Tomlinso		.;	3rd-class engineer	,,	17 July, "
rederick Charles Alexan			,	! "	26 " "
ohn Senior Reynolds We			,	,, ,,	1 Aug., "
Irnest Escott Brooking		••	,	,	4 " "
	• •	• • • • • •		,,	14 " "
ames Allen Knowles	• •	••	,	1 "	14 " "
harles Brebner	• •	••	<i>"</i> • • • • • • • • • • • • • • • • • • •	,	14 " "
	• •			,,	14 " "
* <u>.</u>	•••	• • • • • • • • • • • • • • • • • • • •	, , , , ,	<i>"</i> · ·	17 " "
	• •	••			10
leorge Wilson	 randar	••			01
oseph Fraser Hurst Alex ohn McLeish Maxwell		•• ••		,,	Q1 "
Villiam Reid Douglas	••	•• ••	,	<i>"</i> ···	91 "
Iector McKenzie	••		,		0.1
oel Barnett Moss	••	•• ••	2nd-class engineer.		1 Sont
	••		3rd-class engineer	1	19
			,,	1 "	19 " "
Villiam Bampton Morga			, ,		19 " "
ohn James Cowan		:			19 " "
onald Stuart Darcy Ha	rris		,		19 " "
dexander Ross	••			,,	19 "
leorge John Stitt			1st-class engineer	,,	21 "
obn William McLaren			3rd-class engineer	,,	26 " "
lexander Dove Pirie	• •			,,	9 Oct., "
ohn Bruce	• •		2nd class engineer	,	9 " "
'rank Carter	• •		3rd-class engineer	,,	9 " "
rthur Fred Priddey	• •	• • • • • • • • • • • • • • • • • • • •		, , , ,	9 " "
ecil Nicholson Willis	• •	• • • •		,,	9 , ,
ames Jeffries	• •	••		,	19 " "
ohn Greengrass	• •	••	. "	,	8 Nov., "
ohn Stitt	• •	••	,	,	8 " "
Iarry Anderson	• •	••	,	,	16 " "
ligel Guthrie	Carlinh	••	,	* **	16 " "
homas Wilfred Fletcher			,	"	16 " "
layton Dudley Hall Ierbert England Schmid	 t	••	,	* **	16 " "
		••		" "	23 " " 2 Dec., "
harles Wallace Saunder	 g	••	"	<i>"</i> ···	1 0 "
ames Gibson Bannatyne		••	1st-class engineer	T	0 "
onald Dudley Potts	••	••	3rd-class engineer	i.	1 4 "
			"		110 "
Douglas William Soundy				<i>"</i>	10
1 1 2 2 2 4 1 1				,	19 " "
Villiam Edwin Hodgson			,	<i>"</i>	28 " "
eter McKivatt			, , , ,		5 Jan., 1906
lfred George Fordham	• •		, , , ,	1	5 , ,
Villiam John White			1st-class engineer		18 " "
krnest Alexander Edgar l	Binns		2nd-class engineer	,,	24 " "
harles Evers Bell	• •		3rd-olass engineer		25 " "
ames Patterson Fyffe	••	•• ••			25 " "
ohn Forbett	• •				25 " "
lathen Wallace Houghto	ac			* *	25 " "
	• •		,,	,	29 " "
eo Minetti Amodeo	• •		,		2 Feb., "
eter Dawson	••	••			2
Valter Edwin Hughes			,		2
ames Cable Ienrich Franz Vosseler		••	,		9 " "

Return of Masters, Mates, and Engineers to whom Certificates of Competency were issued during the Year ended 31st March, 1906—continued.

Name of P	erson.			R	ank.		Class of Certific	cate.	Date of	Issue.		N
no Doudon Cile				9u# -1			Tile maine de 3		<u> </u>		-	
vo Roydon Gilmour ames Tenick Dennison		• •		3rd-class	engine "	er	Foreign trade	• •	9 Feb.,   9 "	1906		1
tobert Marshall Hern			]		· •		"		9 "	<b>.</b>		
leorge Luke		• •	[	,	v	•••	"		9 "	"		1
erald Hillsdon Hutton		• •	••	1-4-1	" 	• •	<b>"</b>	• •	2 March	"		{
rancis Henry		• •		1st-class			<b>"</b>	• •	6 "	"	••	4
obert Mackay dward Manihera		· •		3rd-class	-	r	,,	• •	22 " 22 "	"	•••	8
harles Thomas Brown					,		"	• •	00 "	"		8
resley Haswell Wood				,	,		"		22 "	. "		8
ames Hutton				2nd-class	engine	er	 		22 "	"		è
aude Ernest Burgess				Engineer	••		River trade		22 May,	1905		19
narles Fletcher Hewitt		•	• •	"	• •	• • •	<b>"</b>	• •	23 "	"		1
eorge Isaac Allen		•	* *	"	• •	- • •	"	• •	23 "	"	••	19
eorge Herbert Baxter thur Underwood		•	• •	"	• •	•••	<b>"</b>	• •	23 "	"	••	1
. 1 173 7		•		"	• •	• • •	"	• •	29 "	"	••	1
seph Ford eston Henry Hutton H	 Isroid We	hher		"		•••	"	• •	29 " 29 "	"	•• ]	1: 1:
				"			"	• •	00 "		•• [	1
illiam Archibald Smee				"			<i>"</i>	• • • • • • • • • • • • • • • • • • • •	29 "	"		î
arles William Parting				,,			<i>"</i>		29 ″	"		1
alter Cobourne		. , 🛥		,,			,,		29 "	"		î
eter James Hughes		•		,,	••		,,		29 ″	",		1
drew Ernest Kusabs		•		,,	• •		"	• •	29 "	,,		1
ertie Edmund Colson		•	• •	"	• •		"	••	17 July,	"		1
illiam Thomas Bloy		•		"	• •	••	"	• •	17 "	"	••	1
homas Agustus Franks Villiam Higgins		•		"	• •	• • •	. "	• •	20 ,	"	••	1
seph Horne		•		"	••	• • •	"	••	8 Aug., 8 "	"	••	1
illiam Henry Skidmore		•	::			::	,,	• •	8 "	*	••	1 1
illie Hodge		•			• •		<i>"</i>		20 Sept.,	"		1
eter Drumgool				"			,,	• • •	20 560.,	"		ī
dward de Jersey							,,		9 Oct.,	*		1
'illiam Bishill				"			"		9 "			1
fred James Sutton	••			"	• •		,,		9 "	,,		1
fred Stanton	• •		• •	"	• •	• • •	"		9 "	"	٠. ا	1
alter James White		•	• •	*	• •	•••	"	• •	9 "	"		1
enry Neil Roche			• •	*	••	• • •	~	•• '	9 "	*		1
thur George Schmidt		•		*	• •		"	••	9 "	•	•• ]	1
thur Cecil Bowman ichard Stott		•		"	• •	• •	*	• •	9 "	"	••	1
chard Stott		•		"	• •	•••	"	••	10 "	"	••	2
thur Ernest Dryden		•		"	• •	• • •	"	• •	9 "	"		2
rederick John Stratford				"			"	• •	14 23 Nov.,	"	••	2 2
avid Perano			::	"			<b>,</b>	• •	18 Dec.,	#		2
harles Campbell Hall G	ibbons			"			"		25 Jan.,	1906		2
illiam Henry Jackson			[	,			~		25 "	"		2
seph William Hindley			]	,,			"		25 "	,,		2
dward Morrison Mackie	3			"	• •		,,		25 "	"		2
rnest Walter Hallett				"	• •	• • •	*		25 .	,,		2
homas Stevenson Drake				"	• •	}	"	• •	25 "	,,		2
obert Bryant	• •	• •	• •	"	• •	•••	"	•••	25 "	"	••	20
eter Pearson Ifred Stephen Amy	••	• •	••	"	• •	- • •	*	• •	25 "	~		2
illiam Harris		• •		"	••	•••	"	•••	25 "	"	••	20
hn Walsh		• •		"	• •		"	••	9 Feb., 9 "	"	••	2
hn Bain Munro				"		::	"		10 March,	"		20
avid Henry Clarkson				"			"		12 "			2
eorge John Vazey				Marine er	ngine-di	iver	<i>"</i>		23 May,	1905		
eorge Samuel Lapwood					"		,,		23 "	"		
eorge Edward King					,,		 *		10 Oct.,	,,		
alstead Kennett			••		"		"	•••	4 Nov.,	,,		
nomas Brown Alfred Da			•••		"			• •	5 Dec.,			
to Rudolph Neumann		• •	••	On & -1	" oil		Son miss -	• • •	29 Jan.,	1906	••	
hn Arthur Harwood M fred Owen Grundy		• •	•••	ZIIU-Class	ou eng	meer	Sea-going	••	23 May,	1905	••	
narles Smith		•	•••		"		. "	••	23 " 23 "	"		
eorge William Twigden		· •		1st - class	oil engi	neer	"	• •	ດຊ ້	*	•• ]	
avid Henry Monson				2nd class			"	• •	5 Sept.,			
ercival Henry Leigh		• •			"		,,		5	"		
arles Stuart Laird					"		"		19 ",	,		
lgar Major Brown					"		"		19 "	"		
illiam Innes	••	• •			"		"	••	19 "			
rederick Going	• •	• •		1st - class			"	••	19 .	"		
ernhard George Booth		• •	••	2nd-class	oil e <b>ngi</b>	neer	*		4 Dec.,	"		
dwin John Tall		• •	• •		"		,,	• •	12 ,	1000		
oble Albert Jamieson		• •	• •		"		"	••	30 Jan.,	1906	•••	
homas James Evans narles James Taw		• •	• •		"		"	••	30 "	*	••	
eil McCallum		• •			"		"	• •	30 "	*	••	
villiam James Blackloc		• •			"		"	• •	30 " 30 "	"		
lbert Bagley					"		,,	• •	30 .	"	••	
ohn Arthur Harwood M		• •		1st-class	oil <b>en</b> gi	neer	" "	• •	2 Feb.,			
					<i>"</i>		~	• • •	2	*		
wen Tudor McLeod							"			"		

Return of Masters, Mates, and Engineers to whom Certificates of Competency were issued during the Year ended 31st March, 1906—continued.

Name of Pe	erson.			Rank.		Class of Certif	icate.	Date of	f Issue.	1
Frank Duckworth				Oil engineer		River-trade		29 May,	1905	
William Edwards				"		,,		7 July,		
Isaac James Bradley				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		, ,		8 Aug.,	,,	
John William Sutherland				,,		,,,		4 Sept.,	"	
David Jones				,,		,,		6 "	"	
				"		,,		18 "	"	
				,,		, ,,		18 "	"	•••
				,,		"		18 "	"	
				"		,,		18 "	"	
				, ,		,,		18 "	"	
Thomas John Wesley Mar	thews			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		, ,		18 "	#	••
	• •	, ,		, ,		"		18 "	"	••
	• •					,,	• •	31 Oct.,	"	
Bertram William Newster		kinson		"		,,,		5 Dec.,	"	••
Albert Edward Blandford		•		"		"		29 "		•• ]
Archibald Clark	• •			,,	• •	<b>"</b>	• •	25 Jan.,	1906	••
Henry Harmond Callcott		• •		"	• •	, ,	• •	25 "	"	•••
Leonard England Schmid	t			, ,	• •	/ "	• •	25 "	"	••
		• •		"	• •	"	• •	25 "	, ,,	••
	• •	• •		"	• •	"	• •	25 "	"	
	• •			,	• •	/ "	• •	25 "	*	••
	• •		• •	,,	• •	"	• •	25 ″	"	••
James Matthew Phillips	• •	• •			• •	"		21 Feb.,		••
Robert Goldie	• •	• • .	• •	Master	• •	Fishing or carg	o boat	16 Nov.,	1905	•••
Thomas Augustus Franks	ŀ	• •	• •	,	• •	Fishing-boat		12 Dec.,	1000	••
	• •	• •		,,	• •	Fishing or carg	o boat		, 1906	••
<del></del>				,	• •			10 "	"	•••
George Howe Cook	••	••	••	,,	• •	Sailing - ve restricted l passengers	ssel, imits,	4 Jan.,	"	
						2				

RETURN showing the Number of Masters, Mates, and Engineers examined in New Zealand during the Year ended the 31st March, 1906, distinguishing the Number of Successful and Unsuccessful Candidates.

	A	ıckla	nd.	We	llingt	ton.	Ly	ttelt	on.	D	unedi	n.	Other Pla			ces. Totals.		
Class of Certificate.	Passed.	Failed.	Total.	Passed.	Failed.	Total.	Passed.	Failed.	Total.									
Foreign - going masters and mates	17	20	37	4	5	9	6	6	12	2	1	3				29	32	61
Home-trade masters and mates		. 6	23	10	12	22	5	• •	5	1	3	4				33	21	54
River-steamer masters	17	2	19	6	2	8				5	1	6	٠.			28	5	33
Sea-going engineers (steam)	22	6	28	7	3	10	10	2	12	29	3	32	7	3	10	75	17	92
chanical power than steam)	18		18	2	1	3		••	••	1		1	• •	•••	• •	21	1	22
River-steamer engineers	29	5	34	8	3					2	1	3	7	3	10	46	12	58
River engineers (other me- chanical power than steam)	17	1	18	3		3	1		1	4		4	5	••	5	30	1	31
Marine-engine drivers  Master, fishing-boat or cargovessel up to 25 tons register			4	5	2	7							3		3	7 5	2	7
Master, sailing vessel, restricted limits	1	••,	1	••			•••						••	••	٠.	1	••	1
Totals	142	40	182	45	28	73	22	8	30	44	9	53	22	6	28	275	91	366

RETURN showing the NUMBER of SEAMEN engaged and discharg respectively; together with the Amount of FE	Nome pective	ER of Sily; toge	SEAMEN ether w	the Number of Seamen engaged and discharg respectively; together with the Amount of Fe	and di	scharged of Fees	in the F received	Foreign	same	INTERCO	LONIAL the Fir	AL TRADE, Financial Y	the Howe	ME TRADE, ed the 31st	and Marc	within restricted th, 1906.	STRICTE	LIMITS
	E	Engagements and Discharges in Foreign Trade.	and Disc ign Trade	harges in	HE HE	Engagements a Home	ts and Discharges in ome Trade.	arges in	Eng	Engagements and Discha Restricted Limits.	d Discha d Limits	Discharges for Limits.	Total En	Total Engagements.	Total I	Total Discharges.	Grand	Grand Totals.
Port.	Number of Seamen engaged.	Fees	Mumber of Seamen Gesmen discharged.	Fees received.	Number of Seamen engaged.	Fees received.	Number of Seamen discharged.	Fees receiyed.	Number of Seamen engaged.	Fees received.	Vumber of Seamen discharged	Fees received.	Number of	Fees received.	Number of Seamen.	Fees received.	Number of Seamen.	Fees received.
Anobland	1 307	£ 8.	d. 1.255	£ s. d.	2 661	£ s. d.	67	£ s. d.	943	£ s. d.	912	£ s. d. 55 4 0	4,911	£ s. d [*] 321 17 6	4,627	£ s. d. 300 4 6	9,538	£ s. d. 622 2 0
Dunedin and Port Chalmers 2,596	, 2,596	184 10	6 2,611	183 9	<u>-</u>	7	-	18		:	:	:	3,795	18	3,787	٠.	7,582	D.
Greymouth	24	1 11	6 26	1 13 0	187		158	Q 0	;	:	:	:	211	4 4	184	ς η <u>α</u>	395 98	<i>ا</i> ۔ 0
Hokianga	:	:	: :	: :	2 %				: :	: :	: :	: :	97	1 6 0	98		25	12
Invercential		5 8		. 8				6	:	: ;	:	:	122	986	88	17	205	0
Kaipara	84	9 9		4 14	_	<b>C</b> 1				• ;	:	:;	221	φ;	215			10
Lyttelton	370	27 15 2 3	0 6 91 91	18 19 6	<del>-</del>	107 6 6 6 19 0	1,412	20 CV	5 4	0 15 5 0	2 88	2 FZ	1,811	135 16 6	1,673	9 6 6 6 6	3,484	$\frac{261}{20}$ 6 0 $\frac{6}{17}$ 0
Nelson	:	· :		' : '	648					က	9	ဖ	650	42 11 6	623	17	1,273	œ
New Plymouth	:	:		0 1 6					:	:	:	:	, O.	0 7 6	<u></u>	10	13	18
Oamaru	<u>.</u>	0 10	9	9 * 0	#8	97	25	0 15 0	:	:	:	:	81.6	1 7 0	13		E 8	မ ဒ္
Patea	:	19:	:	0 10 6		30		1 4 2 7.	: :	: :	: :	: :	75	10	64	16	681	g 9
Poverty Bay	00	0 13	9	6	107		130	6 19 6	::	: :	:	:	116	6 17 0	136		252	5
Russell	:	:	:	:	_	<del>, -</del>	:		:	:	:	:	, ,	<del>, -</del>	:		<del>, ,</del> ,	<del></del> -
Tauranga	:	:	:	:	<b></b> \$	<b></b> \$			:	:	:	:	- ç	10	21 4		n 6	41 0
Thames	. 67	2 17	: -	1	15		9 59	4 10 6	: :	: :	: :	: <b>:</b>	109	3 03	62	5 17 6	188	0
Wairan	3 :	; ;	:	::	8			0	:	: :	:	:	8	6	14		34	10
Waitara	:	:		:					:	:	:	:	13	9	<b>8</b>	16	21	C1 (
Wanganui	91			- 1		<u>-</u> -	_	200	:	:	:	:	164	7.	07.1		334 404	10
Wellington Westport	23	10 3	6 - 39		203,203	12 18 0	190	12 1 6	::	: :	::	: :	226	14 12 6	200,5	13 10 0	435	28 2 6
Totals	5,696	5,696 406 17	6 5,175 357 11	357 11 6	9,382	611 0 0	890'6	594 9 6	982	60 10 0	964	58 7 0	16,073	1,078 7 6	15,207	1,010 8 0	31,280 2	2,088 15 6
	-		-	1	-							***************************************						

DESCRIPTIVE RETURN of New Zealand Coastal Lighthouses.

Name of Lighthouse.	Order of Apparatus.	Description.	Period of Revolv- ing Light.	Colour of Light.	Tower built of	Dwellings built of	Date first} lighted. [1282
	1st order dioptric	Revolving	1'	White	Timber	Timber	24 Mar., 1879
Cape Maria van J Diemen		Fixed	•••	Red, to show over Columbia Reef.			
Moko Hinou	1st order dioptric	Flashing	10"	White	Stone	Timber	18 June, 1883
Tiritiri	2nd "	Fixed	••	White, with red arc	Iron	"	1 Jan., 1865
Ponui Passage	5th "	,,	1	White and red	Timber	,,	29 July, 1871
Cuvier Island	1st "	Revolving	30"	White	Iron	,,	22 Sept., 1889
East Cape	2nd "	Flashing	10"	,,	,,	,,	9 Aug., 1900
East cape	2nd "	Revolving	30"	,,	Timber	"	10 Feb., 1878
Portland Island	"	Fixed		Red, to show over Bull Rock.			, ,
Cape Palliser	2nd order dioptric	Revolving	*	White	Iron	Timber	27 Oct., 1897
Pencarrow Head.	2nd order diopure	Fixed		,,	"	,,	1 Jan., 1859
Cape Egmont	2nd "	"			,,	,,	1 Aug., 1881
Manukau Head	3rd "				Timber	,,	1 Sept., 1874
Kaipara Head	2nd "	Flashing	10"	,	,,	"	1 Dec., 1884
Italpara IIoaa (	2nd "		10"	,,	,,	,,	24 Sept., 1877
Brothers	• • • • • • • • • • • • • • • • • • • •	Fixed		Red, to show over Cook Rock.			
Cape Campbell	2nd order dioptric	Revolving	1'	White	Timber	Timber	1 Aug., 1870
Godley Head	2nd "	Fixed		,,	Stone	Stone	1 April, 1865
Akaroa Head	2nd "	Flashing	10"		Timber	Timber	1 Jan., 1880
Jack's Point	4th	Fixed	١ ,.	,,	Iron	,,	1 July, 1904
Moeraki	3rd "	,,,		,,	Timber	,,	22 April, 1878
Taiaroa Head	3rd "	,,	:	Red	Stone	Stone	2 Jan., 1865
Cape Saunders	2nd "	Revolving	1'	White	Timber	Timber	1 Jan., 1880
Nugget Point	1st "	Fixed		,	Stone	Stone	4 July, 1870
Waipapapa Point	2nd "	Flashing	10"	,,	Timber	Timber	1 Jan., 1884
Dog Island	1st order catadiop- tric	Revolving	30"	,,	Stone	Stone	1 Aug., 1865
Centre Island	1st order dioptric	Fixed		White, with red arcs over inshore dangers	Timber	Timber	16 Sept., 1878
Puysegur Point	1st "	Flashing	10"	White	,,	,,	1 Mar., 1879
Cape Foulwind	0 7	Revolving		,, ,,	, , , , , , , , , , , , , , , , , , ,	,,	1 Sept., 1876
Kahurangi Point	2nd "	Fixed		White, with red sec-	Iron	,,	30 Nov., 1903
Manufangi 1 omt	Ziiu "	11200		tor to show over Stewart Breaker		, "	2000
Farewell Spit	2nd "	Revolving	1'	White, with red arc over Spit end	,,	,,	17 June, 1870
Nelson	4th "	Fixed		White, with red are to mark limit of anchorage	"	"	4 Aug., 1862
French Pass	6th "	"		Red and white, with white light on beacon	,,	"	1 Oct., 1884
Stephen Island	1st "	Group flashing	†	White	"	"	29 Jan., 1894

^{*} Flashing twice every half-minute, with interval of three seconds between flashes. + Two flashes in quick succession every half-minute.

Return showing Number of Fishing-boats registered and licensed at each Port during Year ended 31st December, 1905.

	Port	•	Number registered.	Number licensed.		Port.		Number registered.	Number licensed
Auckland			 205	191	Broug	ht forv	vard	 701	687
Blenheim			 5	5	Nelson			 48	48
Bluff			 86	86	New Plymou	th		 17	17
Dunedin and			 92	92	Oamaru			 46	46
Gisborne		• •	 2	2	Patea			 	
Greymouth		• •	 6	6	Picton			 25	25
Hokianga		• • •	 8	8	Russell			 54	54
Hokitika		• • •	 4	4	Tauranga			 3	3
Invercargill	• •	• •	 49	49	Thames			 46	46
Kaipara	• •	• • • • • • • • • • • • • • • • • • • •	 25	25	Timaru			 10	10
Lyttelton	• • •		 184	184	Wanganui			 4	1
Mangonui		• • • • • • • • • • • • • • • • • • • •	 8	8	Wellington			 110	110
Napier		••	 27	27	Westport	• •		 21	21
Carrie	d forw	ard	 701	687				1,085	1,068

TABLE showing, for the Year 1905, the Number and Tonnage of Registered Vessels (exclusive of River Steamers) of the Colony of New Zealand which were employed wholly in the Home Trade, partly in the Home and partly in the Foreign Trade, and wholly in the Foreign Trade, respectively; and the Number of Men and Boys (exclusive of Masters) employed thereon.

I con Tone and I so Tone and I wo Tone and	1,500. under 2,000. Over.	Men and Boys.  Tons.  Men and Boys.  Tons.  Men and Boys.  Vessels.  Tons.  Tons.	69 52 2 3,473 62 159 8,044 465	69 52 2 3,473 62 354 37,722 2,422	7 1,965 571222 11,901 73 717557636 2436,3131,232	571 222 1 1,901 73 7 17557 636 31 38,278 1,295		22 139 11,813 41 12,530 61 47 20,726 619	
of one I bus and I one I bu	onder 1,200. under 1,500.	Vessels.  Tons.  Vessels.  Vessels.  Tons.	77 1 1,028 50 11,269	77 1 1,028 50 11,269	99 4 4,608 114 56,5	99 4 4,608 114 5 6,5%	33.8	37 I I,047 I8 3 3,822	
700 Tons and   800 Tons and		Vessels.  Tons. Men and Roys. Vessels.  Tons.	32,169 85 21,832	32,169 85 21,832	21,479 56 43,535	21,479 56 43,535	016	016	C
coo Tons and 600 Tons and		Tons, Men and Boys, Vessels. Tons, Men and Boys,	,019 46 21,293 66	1,019 46 21,293 66	569 11	569 11 1 662 32	21,044 23 53,310 65	21,044 23 53,310 65	0
400 Tons and	under 500.	Men and Boys,  Tons, Men and Boys, Vessels,	88 73,193178 21.	88 73,193178 21	1	I oI	31 41,946 46 21	31 4 1,946 46 2 1	
200 Tons and 100 Tons and		Tons.  Wen and Boys.  Vessels.  Tons.	1,685 127 62,250	1,685 127 62,250	275 10 1 396	275 IO I 396	2,301 82 3 969	2,301 82 3 969	
Too Tons and	under 200.	Men and Boys.  Tons, Men and Boys.  Vessels.	594,442234 6 84I 41 554,000391304,471415 7	1	4 725 32 I	4 725 32 1	2 308 I4 9 6 39	6 5 754 53 9	
	Tons. under 100.	Tons, Men and Boys, Vessels. Tons,	942,761 190 594,442 2 771,996 320 554,000	171 4,757 510 114 8,442 625 36 5,312 456	::	:	170 12 17 93	187 17 1 93	0
pull	ĬĬ	Class of Vessels.	In the Home (Coastal)  Trade only— Sailing 942, Steam 771,	Totals 1714,	Partly in the Home and partly in the Foreign Trade—Sailing	Totals	In the Foreign Trade only—Sailing 10 Steam 10	Totals III	0

H-15.

TABLE showing the Number and Tonnage of Sailing and Steam Vessels which remained upon the Register of the Colony of New Zealand on the 31st December, 1904; of those added to and deducted from the Register during the Year 1905; and of those which remained upon the Register on the 31st December, 1905.

	s	ailing Vess	els.		Steam Ves	sels.		Totals.	15.
<del></del>	Vessels.	Gross Tonnage.	Net Tonnage,	Vessels.	Gross Tonnage.	Net Tonnage.	Vessels.	Gross Tonnage.	Net Tonnage
Upon the Register on the 31st December,							[.		ĺ
1904	332	44,515	42,275	249	112,907	67,607	581	157,422	109,882
Added to the Register,— Vessels registered for the first time— (a.) New vessels built at a port in the	,								
United Kingdom (b.) New vessels built at ports in	••	• •	••	б	8,387	4,884	. 6	8,387	4,884
· British possessions	10	473	407	14	1,757	988	24	2,230	1,395
(c.) Purchased from foreigners Vessels transferred from ports in the	1	531	486			••	I	531	486
United Kingdom Vessels transferred from ports in British	2	442	394	4	7,836	5,111	6	8,278	5,505
possessions	4	736	682	6	981	534	10	1,717	1,216
Vessels registered de novo	3	165	137	3	411	201	6	576	338
Tonnage added on remeasurement	••	1	••	··-	••		••	I	••
Total added	20	2,348	2,106	33	19,372	11,718	53	21,720	13,824
Struck off the Register,—								-	
Vessels wrecked or otherwise lost	6	2,508	2,309	2	204	121	8	2,712	2,430
Vessels broken up or unfit for use Vessels transferred to ports in the	2	139	139	4	540	367	6	679	506
United Kingdom Vessels transferred to ports in British	•••	••	••	I	640	393	I	640	393
possessions	2	175	171		• • •	• • •	2	175	171
Vessels sold to foreigners			• •	2	2,637	1,674	2	2,637	1,674
Vessels registered de novo	4	189	168	2	352	227	6	541	395
Tonnage deducted on remeasurement				1					l
or alteration (without re-registry)	••	5	18		••	••	••	5	18
Total deducted	14	3,016	2,805	11	4,373	2,782	25	7,389	5,587
Vessels on Register on 31st December,	338	43,847	41,576	271	127,906	76,543	600	171,753	118,119

Table showing the Number and Tonnage of the Registered Vessels (distinguishing Sailing from Steam) which belonged to each of the Ports of New Zealand on the 31st December, 1905.

	Por	4-	•			Sailing Vesse	ls.		Steam Vessel	s.
	Por	ts.			Vessels.	Gross Tonnage.	Net Tonnage.	Vessels.	Gross Tonnage.	Net Tonnage
Auckland					216	19,568	18,081	116	15,580	8,992
Napier					7	575	562	20	2,312	1,442
Wellington	• •	• •	• •		23	3,689	3,472	35	7,109	3,851
Nelson	• •		• •		10	301	280	12	1,437	814
Lyttelton	• •		• •		27	4,873	1,710	10	2,583	1,097
Dunedin	• •	• •	• •		42	13,508	13,192	72	97,990	59,881
Invercargill	•:•	• •	• •	• •	13	1,333	1,279	б	895	46 <b>6</b>
	Totals				338	43,847	41,576	271	127,906	76,543

RETURN showing the Orders in Council which have been issued during the Year ended 31st March, 1906.

Date of	Order.	Purpose of Order.	
190	5.		 
April	10	Prescribes oyster-license fee for North Island.	* .
,,	10	Varies rules as to life-saving appliances on Home-trade vessels.	*
,,	10	Approves deviation in plan of new N. breakwater, Greymouth.	
,,	10	Licenses J. O. Masefield to occupy foreshore as wharf-site, Batley, Kaipara.	
,,	10	Approves plans of E. Knewstubb's proposed boat- and slip-way, Otago Harbour.	
,,	10	Licenses E. Knewstubb to occupy foreshore, Otago Harbour.	1
,,	10	Approves plans of James Park's proposed wharf and shed, Okarito.	
,,	10	Licenses James Park to occupy foreshore, Okarito.	
,,,	29	Approves plans of Napier Harbour Board's proposed extension to Breakwater Wharf.	
,,	29	Appoints trustees for Kawhia Wharf.	
,,	29	Approves plans of Joseph Fell's shed and slip, Kohukohu, Hokianga.	
,,	29	Licenses Joseph Fell to occupy foreshore, Kohukohu, Hokianga.	
,,	. 29	Approves plans of drainage-sewer outfall at Anderson's Reef, Dunedin.	
,,	29	Extends close season for seals.	
May	22	Authorises Wellington Harbour Board to reclaim land as site for boatsheds.	
,,	22	Approves plan of Havelock Town Board's proposed wharf.	

RETURN showing the Orders in Council which have been issued during the Year ended 31st March, 1906—continued.

Date of O	rder.	Purpose of Order.
1905		
lay	22	Licenses Havelock Town Board to occupy foreshore as wharf-site.
**	$\frac{22}{22}$	Approves plan of Moffett Bros.' proposed wharf and tramway, Waikawa.  Licenses Moffett Bros. to occupy foreshore, Waikawa.
,,	22	Approves plan of proposed wharf of Maraetai Bricks, Limited.
,,	22	Licenses Maraetai Bricks, Limited, to occupy foreshore as wharf-site.
,,	22	Approves Westport Harbour Board expending sum for improved accommodation at receiving-shed.
une	8 8	Approves plans of proposed reclamation, Waterloo Quay North.  Approves plans of Alpha Sawmills Timber and Shipping Company's proposed booms, Gisborne.
;; ;;	26	Approves plans of Wellington Harbour Board's proposed extension of Jervois Quay staging.
,,	26	Licenses George Swain to occupy foreshore, Kaipipi Bay, Stewart Island, as wharf-site.
*;	26	Fixes dues for Waitemata County Council's Waiwera wharf.
uly	$\begin{array}{c c} 6 \\ 6 \end{array}$	Appoints members of Westport Harbour Board.  Appoints members of Greymouth Harbour Board.
,,	18	Approves plans of works near Harrington Point, Otago Harbour.
,, , <b>,</b>	24	Approves modified plans of Auckland Harbour Board's proposed reconstruction of Queen Street What
ug.	2 4	Appoints member of Westport Harbour Board.  Approves plans of construction of breastwork outside concrete face-wall, Waterloo Quay, Wellingt Harbour.
	7	Approves plans of Napier Harbour Board's proposed wharf, Western Pier, Inner Harbour.
pt.	4	Approves plans of Woolston Borough Council's proposed bridge over Heathcote River.
,,	11	Approves Napier Harbour Board's plans of proposed wharf-extension in ferro-concrete.
,,	11	Approves plans of Sounds Co-operative Dairy Company's proposed wharf, Paradise Bay, Pelorus Soun Licenses Sounds Co-operative Dairy Company to occupy foreshore, Paradise Bay, Pelorus Sound.
,,	18	Approves plans of Dive and Ramsay's proposed booms, Mangamuka River, Hokianga Harbour.
,, ,,	18	Licenses Dive and Ramsay to occupy foreshore, Mangamuka River, Hokianga Harbour.
,,	18	Extends close season for seals.
,,	25	Grants land to Gisborne Harbour Board for purposes of "The Harbours Act, 1878."  Vests management of Whangaroa Wharf in County Council and prescribes dues.
ot.	$egin{array}{c c} 25 \ 9 \end{array}$	Fixes dues for White-pine Company's Wharf, Wairoa River, Kaipara.
,	16	Approves plans of proposed graving-dock, Wellington Harbour.
,	16	Approves plans of works at Calliope Dockyard, Auckland Harbour.
,	16	Approves plans of Messrs. Cording and Petley's proposed boatshed and skids, Worser Bay. Revokes Order in Council licensing G. J. Black to occupy foreshore, Akaroa Harbour.
,	30 30	Vests management of Wainui Wharf in Akaroa County Council and prescribes regulations therefor.
<b>,</b>	30	Approves plan of Waipu River Board's proposed improvement works.
oν.	4	Approves plan of proposed extension of Ferry Jetty, Wellington Harbour.
,	4	Revokes Order in Council fixing Waipu Wharf dues and fixes other dues.
,,	27	Licenses New Zealand Land Association to occupy foreshore, Raglan Harbour, as wharf-site. Licenses Tokomaru Farmers Co-operative Company to occupy foreshore as site for boatshed.
,,	27	Approves plans of F. A. Whitaker's proposed bathing-house, Howick.
,, ,,	27	Licenses F. A. Whitaker to occupy foreshore as site for bathing-house.
ec.	11	Revokes Order in Council approving construction by Napier Harbour Board of timber wharf on each of the Council approving construction by Napier Harbour Board of timber wharf on each of the Council approving construction by Napier Harbour Board of timber wharf on each of the Council approving construction by Napier Harbour Board of timber wharf on each of the Council approving construction by Napier Harbour Board of timber wharf on each of the Council approving construction by Napier Harbour Board of timber wharf on each of the Council approving construction by Napier Harbour Board of timber wharf on each of the Council approving construction by Napier Harbour Board of timber wharf on each of the Council approving construction by Napier Harbour Board of timber wharf on each of the Council approving construction by Napier Harbour Board of timber wharf on each of the Council approving construction by Napier Harbour Board of timber what the Council approving construction by Napier Harbour Board of timber where the Council approving construction by Napier Harbour Board of the Council approving construction by Napier Harbour Board of the Council approving construction by Napier Harbour Board of the Council approving construction by Napier Harbour Board of the Council approving construction by Napier Harbour Board of the Council approving construction by Napier Harbour Board of the Council approving construction by Napier Harbour Board of the Council approving construction by Napier Harbour Board of the Council approving construction by Napier Harbour Board of the Council approving construction by Napier Harbour Board of the Council approving construction by Napier Harbour Board of the Council approving construction by Napier Harbour Board of the Council approving construction by Napier Harbour Board of the Council approving construction by Napier Harbour Board of the Council approving construction by Napier Harbour Board of the Council approving construction by Napier Harbour Board of the Council approving constructi
	11	side of Western Mole, and approves plan of same in ferro-concrete.  Approves plans of Messrs. Watkins Bros.' proposed booms, Waitemata River, Raglan Harbour.
,	11	Licenses Watkins Bros. to occupy foreshore as site for booms, Waitemata River, Raglan Harbour.
,	19	Revokes Order in Council licensing New Brighton Lifeboat and Fishing Association to occupy fo
		shore, New Brighton, as site for boatshed.
,	19 29	Revokes Order in Council licensing George Tolerton to occupy foreshore, Whangaroa Harbour. Prohibits trawling between Waimakariri River and Okain's Bay.
,	29	Appoints member of Westport Harbour Board.
,	29	Vests management of Te Akau Wharf in Raglan County Council, and prescribes dues for same.
,	29	Makes regulations and fixes dues for Kaipara wharves controlled by Hobson County Council.
,,	29	Approves plans of C. C. H. Gibbons's proposed additions to wharf, &c., Wairoa River, Kaipara Harbo Licenses C. C. H. Gibbons to occupy foreshore, Wairoa River, Kaipara, as site for log-slip and additional contents of the c
,, - 1906	29	to wharf.
ın.	8 12	Appoints members of Greymouth Harbour Board.  Makes regulations for controlling traffic on Lake Rotorua and management of wharves, and prescri
,,		dues for same.
,,	17	Approves plans of M. Babich's proposed oyster-storage beds, Ballena Bay, Wellington Harbour.
•	23	Revokes Order in Council licensing John Wigmore to occupy foreshore, Manukau Harbour, as site timber booms.
	23	Vests Upper Omaha Wharf in Rodney County Council and fixes dues for same.
·,	23	Approves plans of Karamea Sawmilling Company's proposed wharf, Karamea.
,	23	Licenses Karamea Sawmilling Company to occupy foreshore, Karamea, as wharf-site.
,	23 23	Approves plans of G. B. Watson's proposed wharf near Pakawau, Golden Bay. Licenses G. B. Watson to occupy foreshore near Pakawau, Golden Bay, as wharf-site.
,	23 23	Approves plans of proposed mill and wharves for Mitchelson Timber Company, Whangape Harbour.
,	23	Licenses Mitchelson Timber Company to occupy foreshore, Whangape Harbour, as site for mill a wharves.
eb.	2	Revokes Order in Council licensing George Penney to occupy foreshore, Whangaroa.
,	8	Amends regulations and dues for Kaikoura Wharf.
,	17	Revokes Order in Council licensing William Downes to occupy foreshore, Whangaroa, as site for bo
,,	27	shed.  Licenses Kauri Timber Company to occupy foreshore, Hokianga Harbour, and fixes dues for Kohuko Wharf.
arch	1	Authorises reclamation of land at Freeman's Bay, Auckland Harbour.
,,	1	Fixes light dues for port of Hokianga.
,,	3	Revokes Order in Council licensing George Swain to occupy foreshore, Kaipipi Bay, Stewart Islan
	3	as wharf-site.  Approves plans of George Swain's proposed wharf, Kaipipi Bay, Stewart Island.
,,	3	Licenses George Swain to occupy foreshore, Kaipipi Bay, Stewart Island, as wharf-site.
••	-	I
,,	3 19	Approves plan of proposed extension of Jetty Street Wharf, Otago Harbour.  Approves plan of proposed widening of road, and authorises construction of sea-wall, Mangonui.

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Date of Accident,	of int.	Name of Vessel, Port of Registry, and Official No.	Name of Person injured.	Nature of Injury: Fatal or otherwise.	therwise.	Place where Accident occurred.	. Particulars as to Accident and its Cause, and Verdict of Jury where Coroner's Inquest held.
1905. April 8	. œ	Kamona, s.s., Dunedin, 101486	John McIvor, A.B Edward Chatham, A.B.	Concussion	:	Queen's Wharf, Wellington	John McIvor went on board under the influence of liquor and fell down the bridge-ladder and was conveyed to the hospital, where he was found to be suffering from concussion of the brain. In conveying McIvor from the "Kamona" across the deck of the "Kumara" to the wharf Edward Chatham fell between the two ships, head downwards. Hell was
. 61	24	Moeraki, s.s., Dunedin, 101488	J. Coyle, fireman	Bruised back	;	At sea	four days.  While J. Coyle, fireman, was engaged in the stokehold a large
Мау	63	Awaroa, s.s	F. Berger, fireman	Drowned	:	Dargaville	Deceased fell off als pack, full of the water and was
	ಣ	Monowai, s.s., Dunedin, 84497	R. Miffin, trimmer	Leg jammed	:	Port Chalmers	drowned. Verdict: Accidentally drowned.  The crew were engaged at fire and boat drill, and when swing- ing the hoat inhowd he got his leg isomed between the
.,	24	Hauroto, s.s., Dunedin, 84479	H. Smith, fireman	Injury to left side and toes of left foot	es of left	At sea	chock and the boat, indicing a bad strain.  H. Smith, fireman, about breakfast-time, sat on the edge of an open hatchway and fell down to the between-deck,
ţ.	25	Echo	J. Thomson, A.B.	Ankle injured	:	Dunedin	causing injury to his left side and toes of his left foot.  J. Thomson, A.B., was slinging timber when one of the flitches or boards slipped as he was making up the sling and struck
June	∞	Moura, s.s., Dunedin, 101726	T. Tulloch, lamps_and	Foot injured	:	At sea	him on the ankle. He was sent to the hospital for treatment.  To Mile T. Tulloch was cleaning the skylight over steering gear his foot slipped and came in contact with the engine, and caused an injury to his foot. He was sent to the hospital
*	သ	Moana, s.s., Dunedin, 101479	C. Smith, fireman	Foot injuries	:	At seal	≱
:	œ	Moana, s.s., Dunedin, 101479	T. Fern, second cook	Side injured	:	At sea	arrival in Auckland Through the colling of the ship T. Fern received a severe
	10	Endeavour	J. Newman, A.B.	Injury to third finger of left hand	ft hand	Whakatane	Jan, Injuring ins succ.  J. Wewman, when some wire away, a jagged end of same injuried his fineer. causing inflammation, which nacessity.
•	12	Canopus, s.s., Dunedin, 101490	William Innes, second	Right knee injured	:	Lyttelton	tated his discharge on arrival at Auckland.  While working at the dynamo, W. Innes, second engineer,
•	12	Gem, Auckland, 66577	H. Harding, A.B.	Left hand injured	:	Ngunguru	While Harding was working the which the handle flew round
•	12	Rotomahana, s.s., Dunedin, 75224	J. McConnell, A.B.	Leg injured	:	Wellington	J. McConnell, A.B., slipped and fell on the after-deck, injuring his leg. He received medical attendance and went on with
2	13	Ngapuhi, s.s., Auckland, 102329	W. Daniels, A.B.	Toe injured	:	Whangarei	While landing a winch (cargo) the clutch slipped and fell on his left for injuring his too
•	14	Moonah, Sydney, 112546	C. Lake, A.B.	Shoulder hurt	:	Auckland	While C. Lake was going down the hatchway he fell into the hold, hurting his shoulder.

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Date of Accident.	Name of Vessel, Port of Registry, , and Official No.	Name of Person injured.	Nature of Injury: Fatal or otherwise.	e. Place where Accident occurred.	Particulars as to Accident and its Cause, and Verdict of Jury where Coroner's Inquest held.
1905. June 14	Muritai, Auckland, 89319	R. Campbell, A.B.	Knee injured	At sea	When shifting cases of kerosene on deck he struck his knee. At time injury appeared slight, but became worse, and man had to be discharged and sent to hospital, Welling.
" 15	Wakanui, s.s., Plymouth, 108566	P. Wallace, steward	Effects of fall	Lyttelton	F. Wallace, ship's steward, accidentally fell down the steerage
,, 17	Waikare, Dunedin, 101480	D. Wishart, fireman	Back injured	At sea, between Hobart and	nadder and was accended to by snip's doctor. Thrown by roll of vessel against stokehole-ladder, injuring his
,, 20	≱	J. Malley, trimmer	Two ribs broken	At sea	Dack. J. Malley, trimmer, fell down the engine-room companion and
July 14 ,, 27	40324 Taieri, s.s., Dunedin, 95210 Glenelg, Auckland, 76187	Henry Mouatt, A.B R. Matyke, A.B	Fractured skull Left knee injured	Wellington Wharf, Auckland	Supposed that he fell down forecastle-ladder. While walking along wharf taking a line to a pile, Matyke
July 31	Hikurangi (scow), Auckland	A. Hohnberg, A.B.	Left arm¦injured	At sea, Hauraki Gulf	struck left knee against a pile with such force that he had to be discharged for medical treatment. Hithmangi collided with scow Rata; Hohnberg thrown against galley, injuring arm, and necessitating discharge for medical
Aug. 8	Volador	John Halliday, second	Leg broken	Wharf, Wellington	treatment. While truncer being slung log fell and broke left leg below knee;
6 "	Muritai, Auckland, 89319	mate Thomas Graham, fireman	Little finger, right hand	Onehunga	Mr. Hallday removed to hospital. While greasing machinery injured finger, necessitating dis-
,, 16	Rarawa, s.s., Auckland, 115207	R. Hopkins, seaman	Injury to head	Onehunga	charge and medical treatment. While unhooking a block from end of derrick it slipped from man's hands, and in falling struck his head, inflicting a nasty
" 18	Karawa, s.s., Auckland, 115207	C. Baldrey, A.B.	Blow in groin	Wharf, New Plymouth	cut; discharged for medical treatment.  When heaving vessel alongside wharf the rope surged on the winch, and the bight Baldrey was holding struck him in the groin. earsing a swelling which necessitated his discharge
., 29	Elizabeth Graham, Sydney, 56539	Robert Bull, A.B.	Fractured tibia, right log	Latitude 27° 44' S., longitude 164° 46' E.	for medical treatment. While loosing upper foretopsail, fell backward, striking and breaking rathines of fore-rigging in descent, and then fell
,, 30	20	E. Y. Doncaster	Broken thigh	Wharf, Lyttelton	Overboard, whence he was rescued.  While going on board he fell between wharf and ship; taken to
,, 30	110507 Rotomahana, Dunedin, 75224	G. Retty	Slight injury	Between Wellington and	casual ward, Lyrtelion Hospital. While screwing up a port he stepped on an empty locker door, and ellestry rights himself
Sept. 4	Rotomahana, Auckland, 75119	J. Jerome, greaser	Left ankle sprained	At sea, near Auckland	While greasing tail-rock minsen.  While greasing tail-rock and sprained of grating and sprained left only one and had to be discharged.
· *	Rakanoa, Dunedin, 101477	J. Mudie, greaser	Gash on thigh	Wharf, Auckland	While at work in stokehole a firebar slipped from others in a sline, and struck him on right lee, inflicting a nasty gash.
,, 13	Storm, s.s., Lyttelton, 118090	D. Fisher, seaman	Fingers broken	Wharf, Onehunga*	which necessitated discharge and removal to hospital. While driving steam-winch his fingers, left hand, were caught between rone and harrel cansing a nastiv fracture.
., 25	Pateena, s.s., Launceston, 79262   John Briton, steward		Injury to knee	At'sea	Slipped in cross alley-way; sent to hospital, Dunedin, 27th.

KETURN of ACCIDENTS to SEAMEN and Others on board Ship reported to MARINE DEPARTMENT, &c. -continued.

MAKINE DEFAKIMENT, &C.—COntinuel.  Particulars as to Accident and its Cause, and Verdict of Jury	where Coroner's Inquest held.	Boat in which deceased was was in charge of moorings while dredge went away with load of spoil; on return propeller swamped boat, and Eckmann was drowned. Two buoys thrown to him, but he failed to reach them. After swimming a while, he sank. Dredge fouled moorings and drew boat	under her stern, smashing her up. Fitting a strop on main boom, slipped and fell to deck and sprained right ankle, necessitating discharge for medical	struck by a sling, jamuring him internally.	charged for medical treatment. Jumped on a hatch which was not secured, and fell into hold 30 ft. to 40 ft.; at first refused, but afterwards saw doctor, and on his advice stayed home a trip, refusing to go into	hospital.  As he was going into the forecastle he slipped and fell down the ladder; ordered to hospital by doctor; no blame at-	tached to any one.  Fell on deck from No. 3 crane and sprained wrist, necessitating	Onschange for medical urealment. Scalded foot while vessel lying at Whangape. While closing ash-pit door, allowed it to fall on finger. While stepping on board he slipped and fell on the rail, break-	Inquest held and verdict returned to effect that deceased met	Fell on deek and dislocated hip; removed to hospital; pro-	A piece of thinder fell out of the slings during unloading, and the struck Pthember on might law giving him a meter hunge.	While employed greasing forefinger caught in valve-gear;	While tipping coal-tubs, forefinger of right hand crushed,	necesstaatig uschalge tof medical deadment. Slipped in stokehole.	Sent to hospital, Whangarei, 6th January, 1906; died 31st	Slipped on stokehole-plates and hurt foot; unable to walk.	He walked off end Port Chalmers wharf, and was drowned; every effort made to save him, without success, and harbour afterwards dragged for two days without avail.
	Flace where Accident occurred.	Near wharf, Lyttelton	Onehunga	Auckland	Timaru	Lyttelton	Auckland Wharf	At sea Lyttelton Wharf	Dunedin Harbour	Wharf, Dunedin	Lyttelton Harbour	Onehunga Bar	Wharf, Auckland	Between Auckland and Whangarei	Whangarei	En route to Lyttelton	Port Chalmers
arn and Uthers on board amp reported to	Nature of Injury: Fatal or otherwise.	Drowned	Sprained right ankle	Internal	Not stated	Ear	Sprained wrist	Scalded foot Hurt finger Broke rib	Drowned	Dislocated hip	Bruised leg	Crushed forefinger	Forefinger crushed	Injured left ribs	Inflammation of stomach	Hurt right foot	Drowned
OLACCIDENTS TO SEAMEN	Name of Person injured.	John Eckmann, dredgehand	John McKeon, seaman	A. Castel, seaman	E. Millar, A.B.	M. J. Enright, trimmer	P. Oakland, A.B.	F. Samburgh, cook J. Swan, trimmer V. Ferarar, steward	Alfred McDonald, fireman	R. Martin, A.B.	John Etheridge, mate	A. Schmidt, greaser	R. Skibley, seaman	T. White, seaman	Eric Anderson	Thomas Carrick, fireman	Henry Lees, fireman
Name of Vessel, Port of Registry,	and Official No.	Manchester (dredge), Lyttelton, 97813	Hawk (scow), Melbourne, 82684	Navua, s.s., Dunedin, 117583	Poherua, s.s., Dunedin, 98061	Wimmera, s.s., Melbourne, 120722	Mokoia, s.s., Dunedin, 101483	Hawk (scow), Auckland, 102337 Maheno, Dunedin, 117588 Cygnet, Lyttelton, 91893	Wakanui, s.s., Plymouth, 108566	Wakanui, s.s., Plymouth, 108566	Cygnet, s.s., Lyttelton, 91893	Rarawa, s.s., Auckland, 115207	Glenelg, s.s., Auckland, 76187	Ngapuhi, s.s., Auckland, 102329	Totara (scow), Auckland, 78398	Baden Powell, 's.s., Wellington,	Karamea, s.s., Southampton, 110264
Date of	Accident.		0et. 21	21	Nov. 3	e :	" 13	Nov. 21 Dec. 1	*	4	,, 19	,, 23	,, 27	,, 28	Jan. 6	15	17

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	RETURN OF	OI ACCIDENTS TO SEAMEN	in and Uthers on board Snip reported to	MARINE	UEPARTMENT, &C.—Cominuea.
Date of Accident.	Name of Vessel, Port of Registry, and Official No.	Name of Person injured.	Nature of Injury: Fatal or otherwise.	Place where Accident occurred.	Particulars as to Accident and its Cause, and Verdict of Jury where Coroner's Inquest held.
1906. Jan. 18	Taieri, s.s., Dunedin, 95210	James Houston, fireman	Abscess right leg	At sea	When turning ventilators he slipped and struck leg against a bolt, causing an abscess to form, which requires opening and
,, 20	Stella, s.s., Auckland, 69402	W. Evans, seaman	Injury to back	Auckland	man lying up for four or five days. While assisting to put lifeboat into chocks the fall carried away and boat came down on man's back, causing injury
. 56	Tongariro, s.s., Plymouth, 111356	William G. Swan, third cook	Drowned	Wellington	necessitating medical treatment.  Body found floating in Wellington Harbour. Deceased had been absent from the ship for about seven days before vessel's departure from colony, and had taken his effects
., 26	Eliza Firth, Lyttelton, 59540 Mörning Light, Lyttelton, 89368	Charles Laing, A.B James Sinclair, A.B	Hernia Injured ankle	On board Eliza Firth Lyttelton	with him. Stated to be caused by lifting timber. While sculing ship's boat, slipped off thwart and hurt his
., 30	Rarawa, s.s., Auckland, 115207	Miss Marks, stewardess	Scalded right foot	Onebunga Wharf	ankle. Some one left a bucket of scalding water outside her door, and in stepping out she put her right foot into it, scalding the
Feb. 4	Waverley, s.s., Nelson, 69012	Thomas Jones, second mate	Middle finger right hand & badly crushed, and two fingers slightly injured.	Waitui Bay, between Nelson and Wellington	foot severely.  While putting the anchor on the rail, with the assistance of a seaman, the hand was crushed. Accident caused by statistics of the control in a cholor site of the control in the support of the control in the support of the control in the second of the control in the support of the support o
	Tramp (scow), Auckland, 102344	F. Pelley, seaman •	Bruised left foot	Chamberlain Island	While assisting to jack logs the jack slipped and fell on right
,, 13	Kaipara, s.s., Plymouth, 114630	Walter Broyd, trimmer	Injury to back and scalp wound	Lyttelton Wharf	Stepped over edge of hatch in 'tween-decks, over which tar- paulin spread; tarpaulin gave under his weight, and man
,, 15	Zelateur (barque), Auckland,	F. Gause	Bruised left side	Helensville	fell into hold about 25 ft. below. While breaking down coal in hold he fell on a shovel, bruising
,, 15	Ä	J. Olney, fireman	Twisted right knee	Between New Plymouth and Onehunga	While tending fires man fell owing to rolling of ship, and twisted right knee; continued working but knee got too painful
21	Elizabeth Graham (barque),	Edwin Watkins, boy	Right leg broken	Wellington Wharf	and he was discharged for medical treatment. While carrying bucket of water along 'tween-deck Watkins fall into land.
,, 24	<u> </u>	Joseph Pea, seaman	Injury right foot	Thames	ten muo tower note.  While shinging cases on wharf one fell on right foot, injuring it, though not seriously: foot since started to fester, and man
Mar. 5	Wootton, s.s., Sydney, 112500	John Smith, second engineer	Top of third finger right hand cut off, and middle finger crushed	Off Greymouth	discharged for medical treatment.  While feeling the eccentric straps vessel gave a roll and his fingers were jammed and injured, top of third finger being
,, 24	Poherua, Dunedin, 98561	J. Paris:	Cut hand	Greymouth	taken off.  While drawing a bucket of water from the seacock he cut his hand on the brass guard, and was discharged for medical
,, 31	Endor (cutter)	C. Shears, seaman	Drowned	Foveaux Strait	treatment. Verdict of Coroner's jury: That the said death occurred while Shears was working the tiller during a gale on 31st March, 1906, at West, Cane. Chalky Sound. by means of a rope
į					slipped round the tiller, and accidentally fell overboard and was drowned; no blame attachable to any one, and all reasonable means were used so save him.

SUMMARY of CASUALTIES to SHIPPING reported to the Marine Department during the Financial Year ended the 31st March, 1906.

Nature of Casualty.		Steamers.				-		!					!	-						٠
Nature of Casualty.  Sks Ss Ss Ss Ss Total strandings Ss Ss Total strandings Ss	·			Sailing-vessels.	essels.	To	Total within Colony.	Colony.		Steamers		Saili	Sailing-vessels.		otal on	Total outside Colony.	lony.	Casualt	of Casualties reported	ted.
Ss		Tonnage, No. of Lives lost.	Lives lost.  No. of Vessels.	Топпаве.	To .oV teel lost.	No. of Vessels,	Tonnage.	No, of Lives lost.	No. of Vessels.	Топпаде.	No. of Lives lost.	No. of Vessels.	Топияде.	No. of Lives lost.	No. of Vessels.	Топпяве.	No. of Lives lost.	No. of Vessels.	Топпвке.	No. of Lives lost.
Total strandings	3 17,	7 256 17,382		4 1,6 7 1,2 1,2	640 196 427 209		5 1,647 4 452 2 427 25 18,591	<b>L</b> :::	::::	::::	::::	<u>oq</u> ∶∶∶∶		::::	~ ∶ ∶ ∶	3,834	::::	7 4 25 1	5,481 452 427 18,591	. : : :
888 : : : : : : : : : : : : : : : : : :	22 17,	17,645		14 3,4	472	7 3	36 21,117	7	:	:	:	23	,834	:	22	3,834		38	24,951	7
88 : : : : : : : : : : : : : : : : : :	<u>.</u>	·   :	:	-	39	60	1 39	60	:	:	:	:	:	:	:	:	:		33	60
- Iss Inage			:   :		:	:	:	:	:	:	:	:	:	:	:	:	:	<del>                                     </del>	:	:
No damage		63	9::	===	77 199	1	2 140 1 199 1 92	9 ::	::"	2,715	:::	:::	:::	:::	::1		:::	01-101	140 199 2,807	<b>9</b> ::
Total collisions	63	155	9	2	276	_	4 431	9	1	2,715	:	:	:	:	1 22	2,715	:	5	3,146	9
Fires,— Partial loss	2 6,	6,007	:   :	<u>  :</u>   _ :	: 		2 6,007	:	:	:	:	:	:	:		   	:	67	6,007	:
Miscellaneous, including damage by heavy seas to hull and cargo, loss of masts, sails, &c., and breakdown of machinery	4,1	1,242	.	4	484		8 1,726		:	:	:	:	:	<u> </u>	:	:	:	∞	1,726	:
Total casualties to shipping 30	30 25, 1	25,049	1 6	21 4,2 3 2	,271 1	10 5	51 29,320 4 281	16	:	2,715	::	61	3,834	:-	3	6,549 - 290	: -	54 3	35,869 571	16
Total number of casualties reported 31	31 25,	25,064	2	24 4,5	,537 1	14 5	55 29,601	21	-	2,715	:	8	4,124		4	6,839		59	36,440	22

RETURN of WRECKS and CASUALTIES to SHIPPING reported to the Marine Department from the 1st April, 1905, to the 31st March, 1906.

												The second secon	
Date of		Š	794a .98a		Number of		Nature of	Number	Place where Casualty		Wind.		;
Casualty.	and Class.	ż	Regi Tonn	Crew.	Passen- gers.	Cargo.	Casualty.	Lives lost.	occurred.	Direction.	Force.	finding of Court of Inquiry.	Name of Master.
1904. Oct. 13	Defender, 4 years	Ketch	117	10	•	Timber	Loss of mast and sails	•	4 miles N. of Stephen's Island	S.E.	Gale	On voyage from Greymouth to Lyttelton heavy squall struck ship, carried away mizenmast with sail set. Mast recovered,	James Jamie- son.
Nov. 15	Waipu, 23 years	Scow	24	es	:	:	Stranded; total	:	Jones's Bay, near Toka- tu Point	:	:	but sails lost No inquiry necessary. Owner did not consider her worth expense of refloating	D. W. M c - Kenzie.
1905. Feb. 5	Anjou (French), 5 years	Barque	1642	3	:	Wheat	Stranded; total loss	:	Near Bristow Point, Auckland Islands	ĸ	Light breeze.	Vessel was on voyage from Sydney to Falmouth; and, owing to thick, foggy weather, no observation could be got for forty-eight	A. Le Tellac.
						·			,			hours prior to the stranding, and land was not seen until ship was within 200 yards. Master tried to go about, but wind fell almost calm—cut off by high cliffs—and she struck the rocks hancing by the hows	
56	Elsie, s.s.		15	•	•	:	:	-	Between Putahuia and Watonihi Point, Pe-	:		Crew got away at 5 a.m. next day, and remained on the island until the 7th May, when they were removed by "Hinemoa".  That Richard John Coster came to his death by accidentally falling overboard, no blame	Eugenie Charles Perano.
Mar. 3	Emma Sims, 10 year:	Auxiliary ketch			:	Timber	Grounding; partial loss	:	lorous Sound N. Beach, Karamea, near Nelson	Ä.	Moderate	being attachable to any one Casualty primarily caused by s.s. "Te Kapu", grounding when towing "Emma Sims"; oil-engines latter failed to act, preventing her from returning up river. There appears	Alfred Kemp.
April 1	Defender, s.s., 4 years	Ketch	1117	10		Sheep	Stranded; par- tial wreck	:	North Spit, inside bar Manawatu River	Ä	Light	to have been water on bar for "Te Kapu," drawing slightly more than "Sims," but possessing superior power (Sasualty caused through insufficient depth of water on bar. Damage to ship probably	James Jamie- son.
ж ж	Whakatane, s.s., 5 years	Schooner	3786	:		General	Stranded; no damage	:	Between Maori Kaik and Harrington Point,	:	Squally	caused by striking a submerged snag Vessel's helm hung when being put over to star- board, and before it righted she touched very	Leonard George Silba.
æ •	Gannet, s.s.	• •	9		4	General	Stranded; par- tial loss	:	Deago Harbour Between Pig Island and south shore Queen Charlotte Sound	:	:	Signey, the bottom being mud and sadd.  Heavy sea and dense rain squalls were encountered, and vessel, being under reduced steam, was driven on to rocks.	Thomas W. J. C. Bowden.
<b>∞</b> ∞	Ururoa, 5 years Riwaka, s.s.	Schooner	196	<u>ග</u> භ	: 8	Timber Nil	Stranded; partial loss Stranded; no	: :	Tairua River Entrance to Nelson	N. K.	Light Moderate	Vessel, while in tow of s.s. "Onslow," grounded in channel The stranding of the "Riwaka" was occa-	David Andrew Sharp. George Melville
1							damage		Harbour			sioned by meeting the s.s. "Wairoa" at the entrance of Nelson Harbour, between Haulashore Island and Arrow Rock. Neither of the captains were to blame, and stranding was not the result of negligence	Ruston.

RETURN of Wrecks and Casualties to Shipping reported to the Marine Department—continued.

									•		1		
Date of	Vessel's Name, Age,	Rig	Tojai 9886		Number of	-1	Nature of	Number of	Place where Casualty	•	w inc.	Finding of Court of Inquiry.	Name of Master.
Casualty.	and Class.		geAI moT	Crew.	Passen- gers.	Cargo.	Casualty.	Lives lost.	occurred.	Direction.	Force.		
·1905. April 15	Volador, 20 years	Barquen- tine	197	<b>oo</b>	:	Timber	Loss of mizen- mast	:	200 miles off New Zealand coast, on voyage from Newcastle	N.W.	Moderate gale	A'heavy squall struck the ship and broke off the mizenmast some feet from the deck	John Pearson.
. 17	Haupiri, s.s., 18 years	Schooner	452	32	61	General	Damage to purser's room	:	to Wellington Off Black Head, East Coast, North Island	S.S.E.	Gale	A heavy sea broke on board when lying to off Black Head and carried away the woodwork	Charles Frederick Back -
21	Zelateur, 13 years	Barque	524	=	:	Timber	Stranded; refloated	;	Eastern bank, Mercury Bay	S.W.	Strong	or the pursers room on ucers, pore suc- While being towed down Whitianga River took the ground, and was refloated making water	W. H. Heayes.
May 1	Progress, 28 years	Scow	49	4	:	Coal	Stranded; total loss	:	Peni Peni Beach, North Head, Tauranga	Бį	Hard blow	Vessel, on voyage Ngunguru to Matata, owing to bad weather, had to put into Tauranga; in trying to run in missed stays, and became	Patrick B'on-field.
<b>.</b>	Moeraki, s.s., 3 years	Schooner	2715	85	500	General	Collision; n o damage	:	Abreast of Inner South Head, Sydney Har-	W.S.W.	Light	unmanageable Vessel collided with a small steamer, name un- known	George Craw-shaw.
œ 	Devonport, 27 years	Barque	- 590	10	•	Ballast	Loss of life	1	On voyage from Mel- bourne to Kaipara	ø.	Gale	Wife of master, Sundberg, fell overboard and was drowned. Inquiry: result, no one to	Thore Vindician Sundberg.
<b>x</b>	Lizzie Taylor, 13 years	Ketch	77	70	:	Timber	Loss of sails, and damage to	:	Off Kaikoura	S. F.	Gale	Damage, £100; caused by heavy weather	Anton Peterson.
<del>*</del>	Neptune, 26 years	Barquen- tine	343	10	:	Ballast	rudder Stranded; total loss	:	North Spit, Kaipara, 5 miles from North Head	W.S.W.	Strong	Vessel, on voyage Wellington to Kaipara, went on the bar at latter place, and was totally wrecked. Court found master should not have taken bar at time, but waited later in day: no necessity take bar. Master found guilty of imprudence, as tide ebbing, light bad; and he did not wait for signals or directions. Certificate suspended for three	Robert M c - Kenzie Cliffe.
.; 30	Elverland, 8 years	Barquen- tine	361	1	* B	Railway iron	Stranded; slight damage	:	Western edge, Tory Shoal, Kaipara Har-	ø.	Moderate breeze	õ	S. R. Savory.
June 1	Ngaru, 7 years	Schooner	99	10	:	Timber	Stranded; slight damage	:	bour Petane Beach, Napier	Бį	Gale	Casualty caused through vessel being anchored on a lee shore when a gale of wind sprung up,	Francis Flet.
	Putiki, s.s., 1	Schooner	171	17	:	Produce	Loss of pro- peller-blades	:	6 miles east of Point Gibson	S. E.	Strong breeze	accompanied with a nearly sea. While on voyage from Lyttelton to Wellington the propeller was stripped of all the blades; no explanation could be given as to their loss as the ship did not come in contact with any hard substance.	Frederick Dew- hurst

Vessel on voyage Gisborne to Auckland W. M. Burke.  Master found to have committed error of judgment, and to pay costs inquiry, £9  Foxton to Lyttelton; stranded across stream; W. M. Muir. current appears to have swept away mudbank, allowing vessel to swing round end for end, and back into steep bank lower down river, thus crushing rudder. Reasonable and proper steps taken to avoid casuality  Vessel on voyage Kaipara to Dunedin. And charles Ludovic rew Chery, A.B., fell overboard and was low, Olsen.
oxton to Lyttelton; stranded across stream; current appears to have swept away mudbank, allowing vessel to swing round end for end, and back into steep bank lower down river, thus crushing rudder. Reasonable and proper steps taken to avoid casuality essel on voyage Kaipara to Dunedin. Andrew Grey, A.B. fell overboard and was lost, rew Grey, A.B. fell overboard and was lost.
end, and by river, thus and proper Vessel on voy rew Grey, 2
Strong
_
Loss of life
Timber
:
8 
;
Scow

RETURN of WRECKS and CASUALTIES to SHIPPING reported to the Marine Department—continued.

				-	-	-			4		4		
Date of		ģ	rojs .ogs		Number of		Nature of	Number	Place where Casualty	W	Wind.	: :	
Casualty.	and Class.		igeA Tonn	Crew.	Passen- gers.	Cargo.	Casualty.	Lives lost,	occurred.	Direction.	Force.	Finding of Court of Inquiry.	Name of Master.
1905. Sept. 24	Moana, 5 years	Schooner	94		:	Ballast	Capsized; total loss	17	Mokau	Ä.	Gale	Casualty occurred through the captain anchoring in a wrong position; and when gale came on he could not get vessel out, and she apparently capsized, all hands	E. Jones.
., 27	Turakina, s.s., 3 years	Schooner	5289	105	:	Produce	Fire	:	Wellington Wharf	:	:	being lost While vessel lying alongside, wool and flax found to be on fire in No. 4 hold, 'tween decks. Cause uncertain, probably spon-	Frances Forbes.
., 29	Hawk, 4 years	Scow	139	7	•	Ballast	l life lost; shipped sea		Hokianga Bar	S.W.	Hard	taneous combustion While crossing bar a sea swept the captain (McDermott) overboard, and he was drowned. Casualty might have been avoided if vessel had stood to sea as in-	Bernard McDermott.
., 29	Karamea, s.s	Cutter	15	ಣ	:	Rock	Stranded; slight damage	:	North Spit, Nile River, Buller County	S.W.	Light	structed by signals While on trip Westport to Charleston a sea struck vessel and washed her 3 ft. on one side of channel; stern swung into bank and struck gravel, stripping all blades off propeller. Damage to vessel reported as	Alfred Casson.
Oct. 19	Kaituna, s.s., 1 year	Schooner 1977	1977	98	:	Coal	Touched ground	:	13 miles from Point Pillar, Farewell Spit	N.E.	Fresh breeze	slight While on voyage from Newcastle to Welling- ton vessel touched ground. Ship appears to have made too nuch leeway, which was not allowed for by the master. If the lead had been used be would have found his	John McDrewette.
., 19	County of Ayr, 42 years	Barque, iron, sail	458	2		Timber	Stranded; total loss	:	Danger Reef, Shag Point, Otago ●	N.E.	:	position, and the casualty would not have happened Vessel sailed from Dunedin for Lyttelton; wind N.E. and variable; thick weather came on, and she made short tacks up the coast instead of keeping out to sea, finally coinc ashore as stated. Master and first	William Tul- loch.
Nov. 6	Mapourika, s.s., 7 years	Schooner	718	40	:	:	Fire	:	Alongside Railway Wharf, Wellington		Calm		Charles Clift.
*	Thistle, 14 years	Barque	2192	30	·	Timber	Stranded; total wreck	:	Palmerston Island, South Pacific Ocean	S.S.E.	Moderate	Master guilty of an error in judgment in altering vessel's course at midnight, thus bringing her nearer the Islands	Edmund Eng- land.

RETURN of WRECKS and CASUALTIES to SHIPPING reported to the Marine Department—continued.

Date of	Vessel's Name, Age,	Big	jeter .egs.o	Num	Number of	Z	Nature of	Number of	Place where Casualty	B	Wind.	Finding of Court of Inquiry	Name of Master
Casualty.	and Class.	. Park	Кеді Топі	Crew.	Passen- gers.	Cargo.	Casualty.	Lives lost.	occurred.	Direction.	Force.	Finding of Cours of England.	TOTAL OF INSPECT
1905. Nov. 21	Corinna, s.s	Schooner	812	8	•	Produce	Struck reef; partial loss	:	Chaffer's Passage, Wellington	ż	Fresh br <b>ee</b> ze	Master justified in coming through Chaffer's passage in daytime and in favourable weather, and Court sees no reason to make	Sydney James.
									•			any recommendation as to non-use of passage, that being a matter in discretion of master. Court also of opinion that master not guilty of negligence while navigating passage, but appears to have been, for some reason unknown to him, and not disclosed to Court, slightly nearer to show than ha	
., 29	Stormbird, s.s.	Schooner	129	13	:	General	£30 loss	:	36 miles S. of Wanganui River	W.N.W.	Fresh	thought he was. No order as to costs  Propeller-blades all dropped off between Wanganni and Wellington. Ship did not	Peter McIntyre.
. 23	Zealandia, s.s., 7 years	Schooner	1736	67	130	General	Stranded; no damage	:	West side, Glasgow Wharf, Napier Har-	N.W.	Gale	Strike anything. Unavoidable accident Cause of casualty was that telegraph from the bridge to engine-room was out of order.	George Frederick Entwistle.
., 25	Anna, 30 years	Ketch	28	4	63		:	23	bour Foveaux Strait	•	:	No damage to ship. Coroner's inquiry: Master William Hanning and seaman John Joss swept overboard by	William Hanning.
., 28	Pateena, s.s., 11 vears	Schooner	550	88	40	General	Breakdown of engines	::	1 mile N.N.E. of Walker Rock, off Cape Jackson	N.W.	Fresh breeze	seas and drowned High-pressure valve guide-bracket broke, and engines stopped for 1½ hours, vessel drifting towards the Brothers; direction, S.E. Repairs temporarily made and ship brought	Samuel Kennedy.
Dec. 5	Huia, s.s.	Schooner		6	:	Wool	Lost 3 pro- peller-blades	:	Wanganui	S.E.	Light	to Wellington. Unavoidable accident Ship struck submerged snag going down Wanganni River and broke off all propeller-	A. Dowell.
Dec. 16	Jap	Scow	199	oc	:	;	Collision with scow Ram-	<u>:</u>	7. J. D.	M 12	S	Collision caused by schooner "Jap" being taken aback when in stays by a "willie-	Thomas Norris.
<b>"</b> 16	Rambler	Scow	77	#	:	Railway material	Collision, par- tial loss	<del>'</del> :	feer famor		franke	schooner up when let go. Casualty might have been avoided if "Jap," had attempted	~
., 20	Kapiti, s.s., 3 years	Schooner	8	01	# ## ### ### ### #####################	Coal	Stranded; no damage	:	Entrance to Patea River	».	Moderate	Stranding caused by a bar of sand formed across the entrance of river by westerly	F. W. Cox.
<b>8</b> 3	Kapanui, s.s., 7 years	Fore-and- aft.	63	×	=	General	Collision; par- tial	9	Inside North Head,	S.W.	Light	Court found that casualty was caused by the negligent and improper navigation of the markets of the "Konami " His cardifficate	William James Southgate.
,,	Claymore, s.s., 3 years	s.s., Schooner	92	<b>I</b>	70	General	Collision; no damage	<del>-</del>	Auckland Harbour			was suspended for 12 months, and he was ordered to pay costs of inquiry	James Mewett.

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CASUALTIES
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WRECKS a
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RETURN

90 sualty.	and Class.		atei Ser	Numl	Number of	F4 :	Nature of	Number of	Place where Casualty	=	Wlnd.	Ulanda of County of Transiers	Many of Manha
			Regi TuoT	Crew.	Passen- gers.	Cargo.	Casualty.	Lives lost,	occurred.	Direction.	Force.	Finding of Court of Inquiry.	Thing of Mascol.
	Oban, 9 years	Scow	66 /	ಣ	:	Coal	Partly sub- merged	m	Wellington Heads	ż	Moderate galeř	When being towed from Baring Head by the tug "Duco" the vessel sank suddenly by by the head, and the three men on board	D. W. McKen- zie.
_	Kapiti, s.s., 3 years	Schooner	08	10	:	Butter	Stranded; no loss	•	Patea River	Ä	Moderate	were washer overboard and drowned According to statement of master and pilot, the cause of stranding is attributed to bad steering and inefficient propeller. Weight of cargo was about 117 tons, and ship was not loaded to within 6 in. of her Plimsoll	F. W. Cox.
1906. Jan. 1	Marere, s.s., 4	Schooner	<b>#159</b>	26	:	General	Stranded; no	:	Bluff Harbour	S.W.	Moderate	mark Strong ebb tide canted vessel	J. C. Felgate.
Feb. 2	years Te Kapu, s.s	Schooner	96	9	:	General	damage Grounded; no damage	:	Karamea	S.W.	Light	The scow "Hacre," not following the tug, touched the bank, causing steamer to take	J. G. Gilbert-son.
.: 50	Maheno, tur- bine, less than	Schooner	3276	116	307	General	Grounded; no damage	:	Bluff Harbour	•	Strong	While going alongside Bluff Wharf, towline parted and vessel drifted alongside sand-	Robert Neville.
. 53	l year Jessie Nicol, 34	Schooner	93	7	•	General	Bowsprit	:	Between Bluff and	S.W.	Hard gale	bank through force of gale Bowsprit carried away in heavy gale	P. J. Ewing.
Mar. 13	years Tuariki	Oil-launch	1-	গ	₩	Timber	carried away Sunk	:	Pelorus Sound	:	Squally	Struck by squall	Peter Johnson.
17	Haere, 3 years	Schooner	66	10	:	Sawn timber.	Stranded; no damage	:	Karamea River	W.N.W.	Slight	Tug which had vessel in tow grounded inside the bar, and "Haere," having lost steerageway, was pulled on to the end of the spit when the tug got a strain on again. Unavoid-	Christian Stenersen.
29	Alexander, s.s., 2 years	Schooner	185	91	-	Ballast	Stranded; no damage	•	Collinet Point, Elmslie Bay, French Pass	S.E.	Squally	able accident Error in judgment in estimating distance of ship from land	William Arthur Wildman.

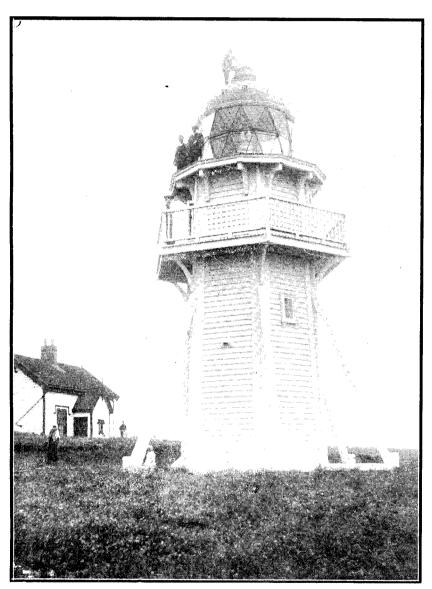
RETURN showing the number of Notices to Mariners relating to Matters within the Colony issued by the Marine Department during the Year ended 31st March, 1906.

Por	rt or P	lace.		Subject of Notice.
Akaroa				Alteration to fixed light.
<i>u</i>				Changes during alterations to light.
Auckland				Alteration in position of Railway Wharf lights.
"				Light on Rangitoto Island.
Bare Island				Incorrectly charted.
3)uff				Removal of buoys in harbour.
ape Campbel	l			Erection of iron tower and alteration of light from flashing to fixture.
French Pass				Buoy on Middle Bank, Current Basin.
reymouth				Dredge's position in river.
,,				Alteration to leading lights on bar.
Hauraki Gulf				Gull Point beacon erected on outer rock.
nvercargill				New River bar shoaling.
Kaipara				Alteration to buoys, Wiaroa River.
				Buoy on Tory shoal adrift.
Karamea Rive	r			New signal flagstaff erected.
Manukau Har	bour			Re-erection of beacon.
Otago Harbou	r			Black port-hand pile beacon.
<i>"</i>				Alterations to lights.
"		• •		Entrance by main channel only.
Puysegur Poin				Repairs and alterations to light.
,				Alterations completed and flash resumed.
Queen Charlot				Rock off Long Island.
uahine Point				Exhibition of light.
,,				Lighthouse destroyed by fire.
Julean Point,	Otago			Floating target adrift
Wakatahuri, Í				Telephone station established.
Wanganui				Lights on Harbour Board's dredge.
Wellington				Defence Department's two buoys moved to Kau Bay.
,		••		Gas-buoy placed on Falcon shoal.
"		••		Position of Harbour Board's dredge.
General	•••			"New Zealand Nautical Almanac" published.
		• •		NY 17 1. 3 4 (4) 00 13

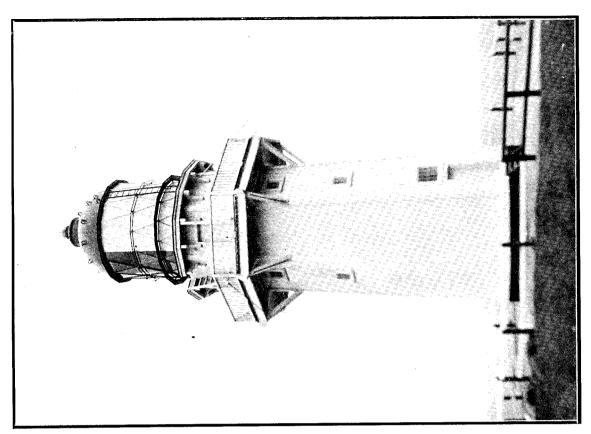
Approximate Cost of Paper.—Preparation, not given; printing (1,800 copies), £69 7s. 6d.

By Authority: John Mackay, Government Printer, Wellington.—1906.

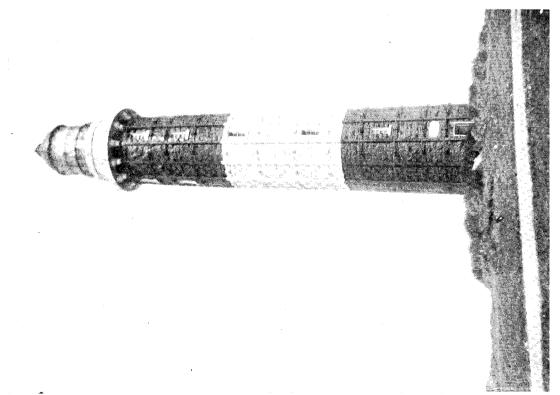
Price 1s. 3d.



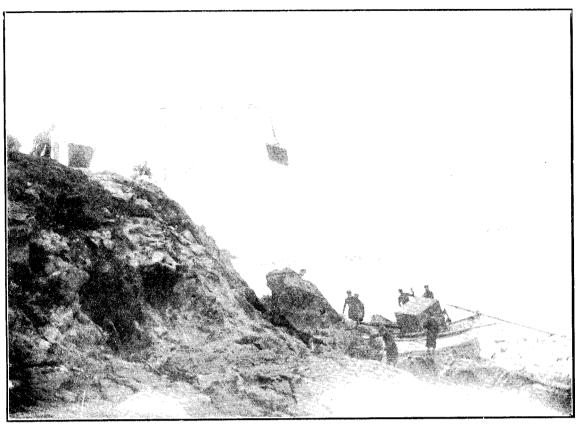
Moeraki Lighthouse.



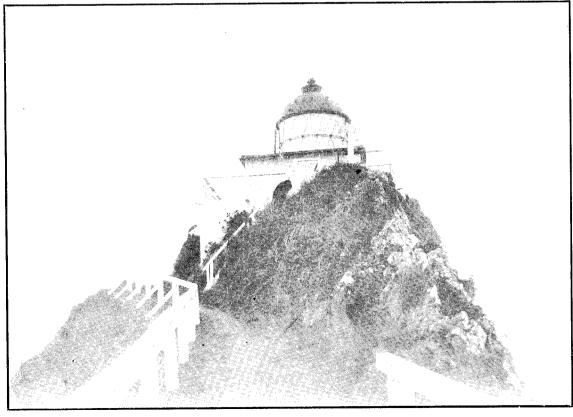
PUYSEGUR POINT LIGHTHOUSE.



Dog Island Lighthouse.



тахыха ат Монкма



Nugger Point

