1899. NEW ZEALAND.

PUBLIC WORKS STATEMENT

BY THE HON. W. HALL-JONES, MINISTER FOR PUBLIC WORKS, 12TH SEPTEMBER, 1899.

MR. SPEAKER,-

In laying before honourable members the Public Works Statement for the year it is my pleasing duty to again report that satisfactory progress has been made with the various works in hand. The Thames-Paeroa, Seaward Bush, and Forest Hill Railways have been opened for traffic, and should materially increase the earning-power of the lines with which they are connected. The progress of settlement and the profitable utilization of valuable timber that have followed the construction of our present railways have manifested the necessity for making further extensions of certain lines. Some of the proposed lines that are urgently required in the interests of settlement also give promise of earning the interest upon the cost of construction from the moment of opening. A large borrowing policy for the completion of our railway system, irrespective of the results likely to be derived therefrom, is to be deprecated. At the same time it should not be forgotten that as a question of colonial policy the completion of the main trunk lines from Auckland to the Bluff, within a reasonable time, is much to be desired. In regard to other lines it will also be necessary, in order to meet the requirements of our industries, and to develop the resources of the colony, to keep pace with settlement and so assist our settlers in getting their products expeditiously and cheaply to markets and ports of shipment.

In my Statement of December, 1897, I included a table showing the mileages of the different sections of railway completed and opened for traffic since the 24th January, 1891—the total length opened within the period referred to being no less than 224 miles 51 chains. Since that Statement was delivered

the following additional lines have been opened:-

				Ler	gth.
Railway.		Section.		Miles.	Chains.
Whangarei–Kamo Extension Waikato–Thames Midland Otago Central Seaward Bush		Whakapara-Waiotu Paeroa-Thames Belgrove-Motupiko Kokonga-Ranfurly Gorge Road-Waimahaka		3 19 9 11 6	29 20 23 25 52
Forest Hill		Winton-Hedgehope		12	40
Total Add mileage	reporte	ed in Statement of 1897	**··	62 224	29 51
Total mileage	opene	ed since 24th January, 1891		287	00

There is also at the present time a length of 93 miles in progress. The expenditure on railway-construction works during the same period has amounted to £1,431,140.

Notwithstanding the somewhat increased funds available, I regret that I have still been unable to make provision this year for all the projected new railways and extensions of existing lines that have been petitioned for from time to time. I have only been able to provide for about one-fourth of these works, being those that are most urgently required, or which will be immediately reproductive. While admitting that there is every probability of some of the lines unprovided for ultimately earning interest on their cost, it would nevertheless not be prudent to commence their construction until some of those now in hand have been completed. Reference is made later on to the more important of these proposals.

AVAILABLE WAYS AND MEANS FOR PUBLIC-WORKS PURPOSES.

On 31st March, 1898, the available balance of ways and means for public-works purposes was £326,492. Further funds were provided last session as follows:—

Under the Aid to I	Public	Works a	ind Land	Settlement	Acts	Amend-	£
ment Act						•••	500,000
Transferred from th	ne Con	solidated	i Fund	•••		•••	425,000
Sinking funds relea	sed		•••	• • •			43,360
Miscellaneous recei	pts	•••		• • •	•••	• • • •	2,330

Thus making a gross total of available ways and means of £1,297,182. The expenditure amounted to £916,327, which left a balance of £380,855 at the end of the year. Against this there were liabilities amounting to £446,283. It is now proposed to raise additional funds as under:—

							. £
For	railway construction	n		•••			300,000
"	additions to open ra	ilways			•••		225,000
,,	roads to Crown and		ds and	main roads	•••		150,000
"	roads to back-block	settlements		,			150,000
"	permanent works or	n goldfields	•••				50,000
"	public and technica		$_{ m dings}$	•••	• • • •	• • •	50,000
,,	purchase of Native			•••	•••		50,000
"	contingent harbour	defe nc e		•••	• • • ;	• • •	25,000
	$Total \dots$		•••	****	•••		£1,000,000

It is also proposed to transfer from the Consolidated Fund a further sum of £450,000, making altogether a gross total of available ways and means of £1,830,855.

The estimates of expenditure for the current year total to £1,355,098, of which £1,308,025 will be a charge against the Public Works Fund, and the balance against the Government Loans to Local Bodies Account, leaving an unallocated balance of ways and means for public-works purposes of £522,830.

It must, however, be borne in mind that the date of the appropriations will probably limit the actual expenditure to about the same amount as last year, and the balance available for next year will therefore be greater than the £522,830 unallocated. It is also hoped that there will be a surplus on the Consolidated Fund this year, out of which another grant can be made to the Public Works Fund, which, together with the unexpended balance available under the latter fund, will be sufficient to meet the actual expenditure under that fund to 31st March, 1901. What steps should then be taken to obtain further ways and means for public works purposes must be left for the next parliament to consider.

TOTAL PUBLIC WORKS EXPENDITURE.

The following table shows, in parallel columns, the total expenditure on all works and services throughout the colony out of the Public Works Fund up to 31st December, 1890, and also up to 31st March last:—

		•	Expenditure.	
Class of Works.		Total to 31st December, 1890.	1st January, 1891, to 31st March, 1899.	Total to 31st March, 1899.
		£	£	£
Railways (including A.O.L.)		14,067,100	1,965,266	16,032,366
Roads		3,575,804	1,387,311	4,963,115
Public buildings	•••	1,776,003	496,856	2,272,859
Immigration		2,144,386	2.734	2,147,120
Purchase of Native lands		1,191,137	713,120	1,904,257
Lighthouses, harbour-works, and harbour-d	lefences	880,095	69,976	950,071
Telegraph extension		600,849	228,437	829,286
Development of goldfields		561,101	87,530	648,631
Defence-works (general)		429,720	39,780	469,500
Departmental		349,789	84,023	433,812
Minor works and services		300,689	6,055	306,744
Cost and discount, raising loans, &c		1,021,472	6,518	1,027,990
Totals		£26,898,145	£5,087,606	£31,985,751

DEPARTMENTAL.

Honourable members are perhaps not aware of the large amount of work performed by the Public Works Department on behalf of other departments of the public service. As the strength of the Public Works staff requires to be appreciably greater by reason of this, I mention the following as some of the works that have been designed, supervised, or reported on for other departments or local bodies during the late financial year:—

Inch Valley Lime-quarry Railway; rifle-ranges, Shoal Bay and Mount Eden; repairs, Mangere, Panmure, and Orakei Bridges; suspension-bridge over Mangawhero River, Wanganui; steel cantilever road-bridge over Rangitikei River at Mangaweka; restoration, Vinegar Hill Bridge over same river; bridge over Taueru River; Karamea Bridge; road, Whangaparapara to Blind Bay; road, Waimangaroa to Denniston; road, Westport to Waimangaroa; deviation, Great South Road round Mount Hercules and other works.

In addition to the above a number of works, too numerous to mention in detail, which have been carried out by local bodies under grants from the Government, have been inspected, and certificates given as to the manner in which the work has been done.

RAILWAYS UNDER CONSTRUCTION.

The extent of railway-construction work in hand during last year was much the same as during the previous year. It will be convenient if I follow the usual course of briefly describing what has been done on each line, and also at the same time give an outline of the proposals for the current year.

KAWAKAWA-GRAHAMSTOWN.

The amount of work in hand on this railway last year was not as great as anticipated when the estimates were prepared. The estimates of last year provided for the extension of the line from Waiotu to Hukerenui, but, as the Railways Authorisation Bill, which was to have authorised the work, did not pass, it was impossible to go on with it. It was not foreseen when this line was first started that Hukerenui would be the most suitable position for the principal station for that district. As, however, a large area of kauri forest can be conveniently tapped from this point, it is very desirable that the line should be extended there as soon as possible. The line was opened for traffic to Waiotu on 21st December, 1898. The expenditure during the year amounted to £3,932. It is now proposed to continue the line from Kawakawa southwards, a distance of about six miles. This extension will open up a large area of marketable timber, and when the timber has been cleared, the land, which is of good quality, will be available for settlement. It is also proposed to again make provision for the extension from Waiotu to Hukerenui, and to put the work in hand directly the necessary authorisation Bill has been passed.

Owing to the shallowness of the water at the present terminus at the Whangarei end of this railway, only vessels of small tonnage can gain access to the line at present. An extension to Grahamstown, a distance of two miles and a half, would enable large vessels to enter and leave at any time of the tide. The construction of this extension will insure the carriage over the line of a large quantity of timber, the freight upon which might otherwise be lost, and would also enable the local coal to be exported. It is therefore proposed to include this extension also in the Railways Authorisation Bill.

The survey of the line from Hukerenui to a junction with the Kawakawa Railway is now in hand, but will not be finished for some months. The vote

proposed for the current year is £10,000.

HELENSVILLE NORTHWARDS.

The formation of the Tahekeroa Section of this railway is proceeding as vigorously as the appropriation for the service will admit of. Indeed, the vote obtained last session was exceeded on the 31st March last by £1,092. The work is still proceeding and making satisfactory progress, two miles of the line being almost ready for platelaying. It is proposed to lay the rails on this length shortly, to facilitate the transport of material for the operations beyond. It is desirable to do this, as the only other access to the works is by a rough bush-road. I propose to ask the House in the Railways Authorisation Bill to sanction the construction of the line to the Kaipara Flats. The vote for last year was £9,000, while the expenditure amounted to £10,092. This year a vote of £12,000 is proposed, which will admit of construction operations being proceeded with expeditiously.

THAMES-TE AROHA.

The last section of this railway, from Paeroa to the Thames, was opened for traffic shortly before Christmas, as promised in last year's Statement. The line was not complete at the date of opening, however, and a great deal of work has been done on it since, the construction-men having only recently been withdrawn. The vote for this railway last year was £25,000, and the expenditure amounted to £24,391. A vote of £7,000 is now proposed to clear off all liabilities on Construction Account.

PAEROA-WAIHI.

I mentioned in my Statement last year that a detailed survey had been made for a branch railway between Paeroa and Waihi. The great development of mining in this district, and the large increase of population resulting therefrom, have induced private persons to offer to undertake this work. As there is every indication of a further development of the district, and that the miningworks will be of a permanent character, or will, at any rate, last for many years to come, the Government considers it would be inadvisable to allow a private company to make this railway, especially as it promises to give a handsome return upon the cost of construction. In view of this the House will be asked to make provision for a commencement being made with the work. A vote of £6,000 has accordingly been placed on the estimates, and the line will be included in the schedule of the Railways Authorisation Bill.

GISBORNE-KARAKA.

The isolated position of Gisborne, and the difficulties the settlers in this part of the colony have had to contend with, owing to want of proper communication with the Port and the outer world, make it a matter of simple justice to establish railway communication between Gisborne, Ormond, and Karaka. The meat and dairy industries have assumed large proportions, and close settlement is going on apace. The roads in winter-time are unable to bear the traffic, and the construction of a line of railway, first to Ormond and thence to Karaka, would provide a long-felt want. With the increase of settlement and the remarkable development of the almost unlimited resources of the district which is taking place, there is little doubt that the earnings of the line would be more than sufficient to meet the interest on the cost of construction. A vote of £6,000 has been placed on the estimates to make a commencement, and Parliament will be asked to authorise the construction of the line.

NORTH ISLAND MAIN TRUNK.

The construction of the Ohinemoa Section at the north end of this line has proceeded throughout the year, but some of the cuttings where the ground was of a treacherous nature had to be allowed to rest during the worst of the winter weather. The work on the other portions of this section that have been in hand during the year has progressed satisfactorily, and about four miles of the line will be ready for platelaying as soon as the cuttings above referred to are completed. Additional formation has also been taken in hand on the lower part of the section, so that construction-works now extend as far as the Ongaruhe Valley, a distance of 54 miles from Te Awamutu and 154 from Auckland, and the line to the junction with the East Road at Kawakawa should be completed within two years.

At the southern end of the line the grading now extends to Taihape, a distance of twenty-two miles from the terminus of the open line at Mangaonoho, and forty-four miles from the junction with the main West Coast line at Marton, and the felling and clearing is in hand for a further distance of five miles. The formation on this length is of a particularly heavy character, but good progress has been made with it. Simultaneously with the construction of the Makohine Viaduct, platelaying will be proceeded with to Mangaweka, thus enabling the line, on the completion of the viaduct, to be

opened to that township.

The preparation of the ironwork for the Makohine Viaduct has been proceeded with as vigorously as possible throughout the year. During the long days of last summer the machinery was kept going for sixteen hours a day, and when the days commenced to shorten the electric light was installed in the workshop, since which time three shifts have been employed, and the drilling and other operations kept going continuously. The preparation of the ironwork for the structure is now well advanced, and a start will shortly be made with the erection.

Last year a vote of £50,000 was granted for this railway: this year we propose a vote of £70,000.

RIMUTAKA DEVIATION.

The trial surveys to avoid the Rimutaka Incline and the steep grades and sharp curves between the Upper Hutt and the Summit, which were made by Mr. J. H. Dobson, and were in progress when my last Statement was delivered, have since been completed. The results of these surveys, and of subsequent personal examinations of the ground by the Superintending Engineer (Mr. P. S. Hay, M.A., M.Inst.C.E.), are embodied in the report by that gentleman, which will be found attached to this Statement. A report is also appended on a further examination of the Wainui-o-mata route, by Mr. R. W. Holmes, M.Inst.C.E. The Government now proposes to have accurate detailed surveys undertaken in order to determine with certainty which route offers the greatest advantages, and the work will be started as early as possible. A vote of £6,000 has been placed on the estimates to cover the expenditure this year. Appended to the Statement will also be found several illustrations of the Incline as it exists at present.

BLENHEIM-AWATERE.

Construction-work on this railway was resumed in September last, and has proceeded satisfactorily since. The formation has already been put in repair and the rails laid on a part of the line, and a further length will be ready for rail-laying shortly, and the balance of the grading as far as the Awatere bridge-site is in hand. In April last a contract was let to Messrs. Scott Brothers, of Christchurch, for the construction of a combined road-and railway-bridge over the Awatere River. The contractors have already commenced the manufacture of the ironwork in Christchurch, and expect to begin operations at the site shortly. The vote taken for this railway last year was £8,000. This year a larger vote is necessary, as construction-works will extend over the whole year instead of only over half the year, and progress-payments are also expected to fall due on the bridge-contract: we therefore ask for an appropriation of £15,000.

WAIPARA-CHEVIOT.

The large increase of settlement that has taken place in the Cheviot district justifies me in saying that an extension of the railway from Waipara through Cheviot is very desirable. It will some day form an important part of the main trunk line between Picton and the Bluff, and will in all probability be interest-earning when completed. In accordance with my promise last session, Mr. A. Jack started the survey of this railway in May last, and has completed a trial line to a junction with a previously made survey through the Cheviot Estate. As a good line has been secured instructions have been given for a full detailed survey to be made, so that construction-works can be started as soon as this survey is finished and Parliament has authorised the line. A vote of £6,000 is asked for to begin with.

OTAGO CENTRAL.

The section of this railway between Kokonga and Ranfurly, a distance of 11 miles 25 chains, was opened for public traffic on 14th December last. This makes a length of over seventy-seven miles of the line now complete and open for traffic, of which sixty miles have been opened since the present Government assumed office. When I delivered my Statement last year, the construction of the further section between Ranfurly and Wedderburn had been put in hand. The formation of this length is now rapidly approaching completion, and the laying of the permanent-way will be started in the spring, and the line is expected to be ready for traffic before next winter. Some delay took place before the formation of the further section from Wedderburn to Ida Valley was commenced, as it was thought desirable that the works on the Ranfurly-Wedderburn Section should be in a forward state before any other section was started. The work is now well in hand, however, and is proceeding expedi-In respect to the section beyond, complications arose, inasmuch as the line was surveyed through what appeared to be a natural site for a reservoir, so much needed in Central Otago for mining and agricultural purposes. This necessitated enquiries being made, but, upon the latest information to hand, it has now been decided to proceed with the line as originally surveyed. The vote taken last year was £40,000, and the expenditure and liabilities at the end of the This year the vote proposed is £60,000, and it is year amounted to £30,342. intended to make up for the unavoidable delay of last year, and to proceed vigorously with the sections already in hand, and we also intend shortly to make a commencement with the heavy work in the Poolburn Gorge.

HERIOT EXTENSION.

In my last Statement I mentioned that, subject to a suitable area of land in the district being obtained for settlement, the Government proposed to make a start with the section of this railway extending as far as Edie's, six miles and a quarter from Heriot, and a vote of £2,000 was placed on the estimates to commence the work with. Owing, however, to the land referred to not having been secured, and to the Railways Authorisation Bill, which was to have authorised the construction of the line, not having been passed, no steps could be taken in the matter. The line will again be placed in the Schedule to the Bill this year, and last year's vote is repeated on the estimates.

CATLIN'S RIVER-SEAWARD BUSH.

Petitions have been presented to Parliament praying for the extension of the Catlin's River line towards Seaward Bush, and of the Seaward Bush line towards Catlin's River. The Government considers that it would be desirable to connect these railways, and will accordingly ask authority in the Railways Authorisation Bill to establish the connection. A survey has already been made of the proposed extension from Owaka to Catlin's Bridge (Ratanui), a distance of three miles and a half, and it is proposed to put the construction of this length in hand as soon as the necessary authority has been obtained.

The Seaward Bush Railway was opened for public traffic to the terminal station at Waimahaka on the 9th June last. Some finishing works still

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remained to be done, and a small amount of the work is not yet complete, but will be out of hand shortly. The amount of the vote last year was £10,000, but, owing to the line not being completed quite so soon as expected, only

£7,216 was actually expended within the financial year.

The extension to Tokonui, at the Seaward Bush end, a distance of about seven miles, would open up some valuable bush country and a considerable area of land well suited for settlement. No permanent survey of this section has yet been made, but inquiries will be instituted to ascertain its probable cost and the amount of traffic that would be carried over it if constructed. This year we ask for a vote of £12,000 to clear off all liabilities on construction account, and to make a start with the extensions referred to.

FOREST HILL.

The work of reducing the grades on the old tramway and converting it into a substantial railway according to present standards has now been completed, the line having been opened for public traffic on the 17th July last. The vote taken for this work last year was £5,000, but only £3,110 was actually expended within the year. A heavy expenditure has since been incurred, however, and a vote of £7,000 is included in the estimates to cover this and all liabilities on construction account.

An extension of the railway for a distance of five miles in the direction of Gore has recently been asked for. The line would traverse easy country, and would probably not cost more than £20,000. No survey of the proposed extension has yet been made, however, but during the recess further inquiries will be made with regard to it.

OREPUKI-WAIAU.

Petitions have been received for the construction of a railway from Orepuki to Waiau, and for an alternative line between Waicola and Orawia. I took the opportunity when in Southland recently to pass through this district, and made full inquiries concerning it, and came to the conclusion that the construction of the line from Orepuki would greatly assist in developing the mining, timber, agricultural, and pastoral resources of that important part of the colony. As there is also every reason to believe that there will be a considerable traffic on this extension if constructed, provision will be made for it in the Railways Authorisation Bill, and a vote of £6,000 appears on the estimates to admit of a commencement being made with the work.

MIDLAND.

A large amount of work was done on this railway during the year. The construction of the Belgrove section has been completed, the line having been opened for public traffic between Belgrove and Motupiko on 1st March last.

I am sorry to say that the traffic-results on this extension have so far been disappointing; but the receipts would doubtless be largely increased if a further section were constructed up to and for some distance along the Tadmor Valley. A careful trial-survey to determine the respective merits of the Tadmor and Hope Saddle routes for the further extension of this line towards the Buller Valley has been made, but the surveyor's report and plans are not yet in the possession of the Government.

Works at the Greymouth end, between Jackson's and Otira, are rapidly approaching completion. The rails have already been laid over about three-fourths of this length, and will probably be laid to the end of it early in October. Every effort is being made to have the section sufficiently complete

to be opened for public traffic by Christmas next.

Considerable work has also been done at the Springfield end of the line. In addition to a large extent of new formation-work, the rails have been laid on about a mile of formation executed by the company. This has been done to facilitate the transport of supplies to the works now in hand. Plans of an iron viaduct over Paterson's Creek, and another over Staircase Gully, are in course of preparation.

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The vote passed for the Midland Railway last session was £50,000, but the expenditure on the work amounted to £54,494. A vote of £60,000 is asked for

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Honourable members are no doubt aware that certain of the debenture-holders applied to the Supreme Court in the colony for the appointment of a Receiver in July, 1898, and a conditional appointment was in due course made by the Judge, without the consent of the Crown. In pursuance of the conditions attached to the appointment, an application was subsequently made to the Court by the Receiver for permission to sell the railway. This application was opposed by the Government, who further asked that the powers of the Receiver should be restricted to dealings with property of the company other than the railway. Both motions came before the late Chief Justice and Mr. Justice Edwards, sitting together, in December last. After exhaustive argument judgment was delivered in favour of the Crown. Receiver appealed against this judgment, the appeal being heard by Judges Williams, Conolly, and Denniston, in May last, the result being that the decision of the Court below was strongly upheld. Copies of both these judgments have been presented to Parliament. The debenture-holders have now appealed to the Privy Council, and the case is expected to come on for hearing in London early in December next. The delays that have taken place have stopped settlement within the area of land reserved for selection by the company; but should the decision of the Privy Council be in favour of the colony, every expedition will be exercised in throwing this land open for settlement.

SURVEYS.

In addition to the surveys already referred to—namely, Hukerenui-Kawakawa, Motupiko-Hope Valley, the Rimutaka deviation, and the Waipara-Cheviot Railway—field-work has been in progress throughout the year on the projected line between Napier and Gisborne. Between Napier and Wairoa three lines have been explored, and aneroid heights of the principal points determined, and between Wairoa and Gisborne two routes were examined. The route finally selected between Napier and Wairoa, and of which the trial survey is now being made, is that by the Esk Valley. Over forty miles of trial line have now been run, the country being of a very rough character. The ruling gradient obtained is 1 in 40, with six-chain curves. The survey is still in hand, and will take several months to complete. A reconnaissance survey was also made by Mr. James Stewart, M.Inst.C.E., of Auckland, a former district engineer of the Department, for lines of railway between Gisborne and Rotorua, and Gisborne and Opotiki. Mr. Stewart's report on these surveys is

printed as an Appendix to this Statement.

The survey of the unlocated portion of the North Island Main Trunk Railway has also been in progress during the greater part of the year, and the location of the line may now be regarded as practically completed. The small amount of work still remaining to be done in the field can be easily and expeditiously accomplished as soon as spring weather sets in. The survey, and preparation of plans, are now so far advanced that the cost of the line may be estimated within narrow limits of error. As promised during last session, a further examination of the country along the Ngaire, Waitara, and Awakino routes has been made, and a very carefully prepared and interesting report on these routes, and a comparison of them with the Central route, has been made by Mr. R. W. Holmes, M.Inst.C.E. Mr. Holmes was assisted in this task by Mr. A. C. Koch, an Assistant Engineer, who has been many years in the service of the department, and has had experience in exploration surveys. Mr. Holmes's report, to which Mr. Koch's report is attached, will be found as an appendix to this Statement, and will well repay perusal. Reports on the character of the land along the Ngaire and Central routes have been obtained from experienced officers of the Lands and Survey Department, and will also be found attached to this Statement.

The trial survey of an extension of the Blenheim-Awatere Railway southwards to a junction with the North Canterbury railways has also been in

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progress and is now well in hand. Mr. J. H. Dobson started the work in December, 1898, and has made considerable progress with it. A vote of £4,000 is proposed for the survey of new lines during the year.

TOTAL APPROPRIATIONS FOR RAILWAYS.

In addition to the appropriations already mentioned, a vote of £1,500 is proposed to meet old land-claims and other liabilities on railways in respect of which no specific votes are taken; also a vote of £46,000 for permanent-way and other materials, thus making the total appropriations proposed for railway-construction purposes £336,500.

WELLINGTON-MANAWATU RAILWAY.

Honourable members are aware of the conditions under which this line can be compulsorily taken. As there are diverse opinions as to the Government taking it over, a complete investigation should be made by experts as to the position, valuation, and outlook; and also as to the effect the acquisition of the line would have upon the working of the railway system of the North Island. Parliament would then be able to decide what should be done in the matter.

ROADS, ETC.

ROADS AND OTHER WORKS UNDER THE CONTROL OF THE MINISTER OF LANDS.

The report of the Department of Lands and Survey gives in detail the nature and extent of the road and other works done by that department mainly in the interests of advancing settlement. It shows that during the past year 312 miles of dray-roads and 399 miles of bridle-roads have been constructed, 350 miles of roads have been widened from bridle- to dray-roads, 139 miles of bridle-roads have been improved, 96 bridges over 30 ft. span were built, and 575 miles of new road were surveyed for construction. These works, together with the maintenance of 2,879 miles of roads already constructed, have cost for the year £282,352.

Settlement on the back-lying Crown lands has now reached the stage at which settlers require roads passable by vehicles. The 6 ft. tracks were eagerly applied for at first to get into the farms. Now, when the bush is felled and the land in grass, they require roads to enable them to remove their produce, and also for the other purposes of life.

The back lands are difficult to provide with such roads, and the construction is expensive, but, having settled these Crown lands, the Government is bound to forward to the utmost of the country's ability their future development.

For the current year the House is asked to authorise works to the extent of £455,280, and to vote for their payment during the year a sum of £330,000, also £47,073 under the Government Loans to Local Bodies Account.

The number of separate roads or items in the estimates is this year greater than in those of last year, and the amounts are, many of them, small. These small amounts are probably as valuable to the districts affected as are the larger sums for the opening of new lands, or for the maintenance of existing means of communication, and they are, therefore, not to be despised on that account. As far as practicable the machinery of the local bodies will be taken advantage of in the expenditure of the smaller votes.

ROADS ON GOLDFIELDS.—MINES DEPARTMENT.

The vote last year for these purposes amounted to £62,625, the expenditure being £46,549, with liabilities at the end of the financial year amounting to £45,740.

The sum proposed to be authorised for the current year is £101,228, on

account of which a vote of £70,000 is asked for.

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DEVELOPMENT OF GOLDFIELDS.

As anticipated in the statement of last year, the yield of gold is steadily increasing, and it is believed that this increase will continue as fresh mines are

opened up and developed.

The quantity of gold and silver entered at the Customs for export during the year ended the 31st December, 1898, was 280,175 oz. of gold, valued at £1,080,691, and of silver 293,851 oz., valued at £33,107, as compared with 251,645 oz. of gold, valued at £980,204, and of silver 183,892 oz., valued at £20,872, being an increase of 28,530 oz. of gold, valued at £100,487, and of silver 109,959 oz., valued at £12,235, while the increase for the seven months ending the 31st July last was 65,047 oz. of gold, valued at £252,507, and of silver 43,133 oz., valued at £5,487, over the corresponding seven months of the year 1898. These results fully bear out the anticipations in the Statement of last year.

Dredging operations still continue to yield satisfactory returns, and claims have been taken up on most of the available rivers and streams within the gold-fields of the Middle Island, while the improvements in the dredges and machinery which are constantly being made will, there is little doubt, largely

increase the returns of gold from this description of mining.

The pumping-plant at the Thames referred to in my previous Statement has been completed, but until the shaft, which is now down to a depth exceeding 600 ft., has been continued to a greater depth, the benefit to quartz-mining at deep levels in that part of the goldfields cannot be determined.

There is also a proposal to work the alluvial drifts at Ross Flat, on the West Coast of the Middle Island, to a depth of 400 ft. below the adit, and it is intended to grant a subsidy not exceeding £15,000 on a total estimated cost of £50,000 to provide pumping-machinery to be worked by electrical power to drain the flat.

The question of water-conservation still continues to engage attention, and information is being obtained from time to time as to the best sites for reservoirs and dams to conserve water. The dam at West Eweburn, in the Maniototo County, referred to in the statement of last year, is still under construction. This dam, when completed to a height of 70 ft. at the crest, is estimated to hold 500,000,000 gallons of water.

The amount expended last financial year on works for the development of the goldfields was £17,354, while the liabilities amounted to £6,626, and it is

proposed to take a vote of £40,000 for the current year.

NATIVE LAND PURCHASES.

In pursuance of the tapering-off policy initiated by the Government as regards purchase of Native lands, efforts are being made to close up all incomplete purchases, and to get the land already acquired partitioned by having the interests of the Crown defined and separated from those of non-sellers. When this is done the land will be divided into suitable blocks for settlement, and roaded. There are seven survey parties already at this work, and about a hundred men are also employed on road-construction. It is anticipated that before the end of the financial year from 150,000 to 200,000 acres of land purchased from the Natives will be thrown open for settlement. The vote proposed for the current year is £50,000. Next year a much smaller sum will probably suffice.

TELEGRAPH EXTENSION.

The expenditure under this class during the past year was £28,551.

The following are the most important of the lines constructed: Auckland to New Plymouth, Wanganui to New Plymouth, Toko to Strathmore, Dannevirke to Weber, Ormond to Te Karaka, Te Karaka to Whatatutu, Collingwood to Bainham, Belgrove to Tophouse, Renwicktown to Kaituna, Ashburton to Mayfield, Waikari to Hawarden, Kaikoura to Waitaki, Wairio to Wrey's Bush, Balclutha to Warepa, and Merrivale to Clifden. A new multiple switchboard has also been fitted up in the Auckland Telephone Exchange.

The vote asked for this year is £33,000, to provide for additions to existing exchanges, the completion of works now in hand, and also for sundry new works.

D.-1.

PUBLIC BUILDINGS.

There was an increased expenditure upon public buildings during the late financial year, due principally to the completion of the new Parliament Buildings, and also to a large number of smaller buildings erected many years ago requiring renewal, or considerable additions.

The appropriations proposed for the current year amount to £197,745—namely, £155,170 under the Public Works Fund, and £42,575 under the Consolidated Fund. The principal works carried out last year or provided for this

year are as follow:—

GENERAL.

First in order of magnitude under this head is the new wing at the Parliament Buildings, comprising a new Assembly Library, and new vestibule, offices, and Committee-rooms. The exterior walls of the addition were fairly complete before the session of 1898, and as soon as possible after the termination of that session tenders were invited for the completion of the The tender of Messrs. J. and A. Wilson was accepted, and the contractors have carried out their work very satisfactorily, the building being ready for occupation by the commencement of the present session. It was not considered advisable to move the library into the new wing before the sitting of Parliament, but its transfer will be arranged for during the recess; and I have no doubt that honourable members will appreciate the increased comfort which the new accommodation will afford them, and will be still more gratified to know that at last our valuable library is housed in The vote taken for the erection of what is practically a fire-proof building. this building last year was £25,000, and £20,564 was expended, with liabilities existing at the close of the year to the amount of £7,564. This year we ask for a vote of £8,500 to cover these liabilities, and to provide for other charges on construction account. We also ask for a vote of £3,000 for furniture and fittings, including shelving for books in new library. The other buildings included in this class are the Government Houses at Auckland and Wellington, and the general departmental offices throughout the colony. total vote last year for all buildings under this class (including the Parliament Buildings) was £30,150, and £29,400 was expended. This year we ask for a vote of £17,480.

JUDICIAL.

A large number of buildings under this head have been dealt with during the year. The principal expenditure has taken place on the following:—

Courthouses.—The new Courthouse at Palmerston North has been finished and occupied; new buildings have also been erected at Leeston and Macrae's; strongrooms have been added at Coromandel, Naseby, and Cromwell, and important additions made at Paeroa and Clyde. The works provided for this year are: New law-courts, Dunedin; new Magistrate's Court, Wellington; new Courthouses at Waihi, Te Awamutu, Mangaweka, Eketahuna, Temuka, Hampden, and Bluff; also additions and alterations at Auckland, Thames, and Christchurch, extensive repairs at Wanganui and Greymouth, and some other minor works.

Gaols.—The expenditure under this head last year was unusually small, the principal item being the Gaoler's house at Clyde. For the current year a vote is proposed to proceed with the building of the Mount Eden Gaol, Auckland; sundry works at the Terrace Gaol, Wellington; and minor works at Gisborne and elsewhere.

Police-stations.—A contract was let last year for the erection of a new police-station at Auckland, and the work is now well in hand. Smaller stations have also been erected at Coromandel, Karangahake, Te Kuiti, Moawhango, Opunake, and Manaia. Properties have been purchased at Bingsland (Christchurch) and Denniston, and additions and alterations made at Te Aroha, Hastings, Wellington, Nelson (Port), Greymouth, Temuka, and Waimate, and extensive repairs have been done at Mercer, Ross, and Okarito, besides less expensive

The appropriation proposed for the current year will work at other stations. provide for the completion of the new station at Auckland, and the additions at Wellington; also new quarters at the Thames, New Plymouth, Nelson, Westport, Christchurch and Queenstown; and new stations at Hamilton West, Cambridge, Gisborne, Mokau, Waverley, Feilding, Kaikoura, Arrowtown, and Invercargill; also additions at Pukekohe, Ngaruawahia, Tokaanu, Dannevirke, Normanby, Hawera, Blenheim, Greymouth, Rangiora, Kaiapoi, Fairlie, Roxburgh and Lawrence; and for extensive repairs at Newton (Auckland), Marton, Lyttelton, Southbridge, and Timaru, and the purchase of a property at Kimbolton.

POST AND TELEGRAPH.

The principal expenditure under this head last year was as follows: New post-offices at Otahuhu, Waitekauri, Mosgiel, and Miller's Flat; the purchase of a site at Petone; additions to offices at Mangonui, Waitara, Wellington, Ashburton, and Owaka; also extensive repairs at Auckland, Palmerston North,

Picton, Christchurch, and Timaru.

The appropriation proposed for the current year will provide for new post-offices at Parnell, Ponsonby, Inglewood, Mangaweka, Feilding, Levin, Wereroa, Eketahuna, Masterton, Petone, Newtown (Wellington), Renwicktown, Wakapuaka, Takaka, Temuka, Naseby, and Bluff; also extensive alterations at Auckland, and important additions or renovations at Te Aroha, Hamilton, Wanganui, Wellington, Hokitika, Christchurch, Dunedin, Alexandra, Roxburgh, and Mataura.

LUNATIC ASYLUMS.

The expenditure on new works at our asylum buildings last year totalled to £17,667, over £11,000 of which was at Porirua, and nearly £2,500 at Nelson. The building at Porirua is now approaching completion. The new auxiliary asylum at Nelson has been finished and occupied, but additions are now proposed to the portion of the old building occupied by female patients. laundry is also urgently needed, and is now in course of construction. other works for which provision is made are a block of single rooms now in course of construction at Auckland, also additions to the male side of the same asylum; a new boiler-house and boilers, also improved fire-service at Wellington; and installing the electric light, providing a Nurses' Home, and augmenting the water-supply at Seacliff.

Schools.

The amount voted for school buildings last year was £75,400—namely, £25,000 under the Consolidated Fund and £50,400 under the Public Works The expenditure amounted to £68,403—namely, £25,000 under the Consolidated Fund and £43,403 under the Public Works Fund. This year we ask for a total vote of £77,500—namely, £25,000 under the Consolidated Fund and £52,500 under the Public Works Fund. The votes, so far as they apply to the erection of schools under the control of the several Education Boards, are distributed to these Boards for expenditure. The only portion of the vote expended under the direct control of the Government is that for Native and industrial schools. Native schools were erected last year, or are now in course of construction, at Whirinaki, Utakura, Waimana, Rakaumanga, Waiotapu, Nuhaka, and Manaia, while the school at Maungatapu was moved.

The work of rebuilding the Caversham Industrial School has proceeded fairly satisfactorily. This year provision is made for additional buildings at Burnham, and for further rebuilding at Caversham.

LIGHTHOUSES, HARBOUR-WORKS, AND HARBOUR-DEFENCES.

The expenditure on new lighthouses last year amounted to £3,727, almost the whole of which was on the building now in course of erection at the East Cape. The vote for the current year is £4,270, of which £4,000 is on account of East Cape. This amount will nearly complete the works at this lighthouse.

varphi v

The expenditure on harbour-works amounted to £1,777. The amount asked for this year is £1,975, which provides for continuing the reclamation-works at Sticking Point, Lyttelton; completion of work at Hokitika; and new wharves

at Mokau, Karamea, Little Wanganui, and Bruce Bay.

The appropriation for harbour-defences last year was £10,000, and £10,158 was expended, the amounts at the several ports being as follows: Auckland, £6,165; Wellington, £2,447; Lyttelton, £461; Dunedin, £1,085. The liabilities at the end of the year were £3,514, and we ask for a vote of £10,000 to cover these, and also to provide for important works now in hand or contemplated. The principal of these are the new battery at Mount Victoria, Auckland, and electric-light emplacements at Auckland and Wellington, and other minor works.

Last year's vote for contingent defence was £35,000, but, owing to English orders not being executed as rapidly as expected, only £13,867 was actually expended within the year; but liabilities existed at the close of the year to the additional sum of £18,450. We ask for a vote of £40,000 to cover these liabilities and further purchases of warlike stores, full details of which appear in the estimates. The vote also provides for the purchase of additional land at the rifle-ranges at Polhill Gully (Wellington) and Pelichet Bay (Dunedin), also for rifle-ranges in the Auckland District.

SUMMARY AND CONCLUSION.

The gross total votes now submitted to the House for public-works purposes amount to £1,355,098, as compared with £1,237,536 last year. The actual expenditure last year amounted to £933,298—viz., £916,327 under the Public Works Fund, and £16,971 out of the Loans to Local Bodies Account.

In conclusion I may remind honourable members of the words used by the late Hon. John Ballance in 1892 when he said,—" If my interpretation of colonial patriotism and aspirations is correct, we must continue to open up land for settlement by means of money spent on roads and bridges; we must still continue, slowly it may be, to take our railways forward to those points where they will serve the purpose of tapping districts of high producing capacity." The Government believe this, with slight modification, to be the mind of the

country at the present time.

The altered condition of the colony has, we believe, demanded more expedition in providing means of communication, and, while the amount expended last year and the amount proposed for expenditure this year, compared with the expenditure of a few years ago may seem large, yet the spread of settlement causing the large increase in the productive power of the colony demands a commensurate increase in the expenditure upon reproductive public works, and the allocation of the funds has been carefully considered with the view of meeting the urgent needs of the colony.

PUBLIC WORKS STATEMENT, 1899.

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TABLE No. 1.

SUMMARY showing the Total Expenditure on Public Works and other Services out of Public Works Fund to 31st March, 1899, and the LIABILITIES on that Date.

Number of Table containing Details.	Works.	Total Net Expenditure to slst March, 1898.	Expenditure during 12 Months ended 31st March, 1899.	Total Expenditure to 31st March, 1899.	Liabilities on Authorities, Con- tracts, &c 31st March, 1899.	Total Expenditure and Liabilities.	Works.
3 41 5 and 54 6 7 8 8 118 of 1878	Railways	15,658,173 18 9,4657,996 7 44,581,276 9 934,408 2 11 9 934,408 2 11 423,722 1 2 10,835 8 0 5,000 0 0 2,147,015 4 7 6 4 13,81,500 0 0 62,461 19 0 14,599 13 2	23,4101 19 9* 295,483 7 2 17,534 10 0 28,550 14 0 107,566 14 5 15,662 10 1 10,990 1 3 104 16 10 53,182 16 10 13,866 12 11 225 1 0 347 11 10	2. 8. d. 4,963-3,365 18 6 4,963-47 14 6 5,685,67 10 11 829,285 18 9 2,272,839 6 2 9,50,070 13 0 5,147,720 0 10,027,989 14 0 11,027,989 14 0 12,85,00 0 0 62,699 16 6 1,027,989 14 0 12,85,00 0 0 62,699 16 6 1,027,989 14 0 12,85,00 0 0 62,699 16 14,599 16 14,599 16 14,599 16 14,599 16 14,599 16 14,599 16 14,599 16 14,599 13 2	28, 3. d. 310,764 9 3 6,625 15 8 28,030 0 0 3,826 0 0 18,450 0 18,450 0 0 18,450 0 0 18,450 0 0 18,450 0 0 18,450 0 0 18,450 0 18,450 0 0 18,450 0 0 18,450 0 0 18,450 0 0 18,450 0 0 18,450 0 18,450 0 0 18,450 0 0 18,450 0 0 18,450 0 0 18,450 0 0 18,450 0 18,450 0 0 18,450 0 0 18,450 0 0 18,450 0 0 18,450 0 0 18,450 0	2, 16,110,236 13 10 5,274;244 3 9 605,246 13 10 829,285 18 9 2,300,889 6 2 953,896 13 0 435,812 2 5,000 0 0 2,47,120 0 10 1,004,949 16 0 1,027,989 14 0 63,525 9 9 14,599 13 2	Railways. Roads. Development of goldfields. Telegraphs. Public buildings. Lighthouses, barbour works, and harbour defences. Departmental. Coal-exploration and mine-development. Aiding works on Thames goldfields. Inmigration. Purchase of Native lands. Defence. Charges and expenses of raising loans. Interest and sinking fund. Rates on Native lands. Thermal springs.
i i · · ·	Less recoveries on account of £ s. d. services of previous years— Roads Purchase of Native lands 225 8 1 £590 8 6	31,070,014 2 9‡8	2 9‡8 916,326 16 3	31,986,340 19 0 590 8 6 31,985,750 10 6	446,282 19 2	32,432,623 18 2 590 8 6 32,432,033 9 8	Less recoveries on account of £ s. d. services of previous years— Roads 365 o 5 Purchase of Native lands 225 8 1 £590 8 6

‡ Includes § Includes *Includes £50 17s. 6d. charged to "Unauthorised." † Table 4 also contains details of expenditure and liabilities under Government Loans to Local Bodies Account. expenditure under Lands Improvement Account, £300,929 12s. 5d., and £30,000 transferred from Consolidated Fund, previously applied in reduction of "Roads" Expenditure. expenditure under Native Lands Purchase Account, £491,980 1s. 1d.

Table 2.
GENERAL SUMMARY.

Showing Net Yearly Expenditure out of Public Works Fund, 1880-81 to 1898-99.

	A CONTROL OF THE CONT	r		· · · ·			5.5	<u> </u>			 				•							
Class.	Description of Services.	Total Net Expenditure		il existe services		· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·		=	E	Expenditure.	·			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						Total Net
	Description of Services.	to 31st March, 1880.	1880-81.	1881-82.	1882-83.	1883-84.	1884-85.	1885-86.	1886-87.	1887-88.	1888-89.	1889-90.	1890–91.	1891-92	1892–93.	1893–94.	1894-95.	1895–96.	1896-97.	1897-98.	1898–99.	Expenditure to 31st March, 1899.
		£	£	£	£	£	£	£	£	£	£	£.	£	P.	e	e	· ·					
I.	Immigration	1,891,719	31,134	6,797	3,999	107,041	57,148	11,675	12,454	15,598	8,791	æ 867	1,823	817	242	343	101	E Cr. 10	£ 301	£	£	£
			Cr. 1,433	Cr. 2,462												010	101	Or. 10	901	70	105	2,147,120
п.	Public Works Departmental	144,623	13,773 Cr. 525	13,321 Cr. 89	12,871	13,465	30,157	29,632	25,835	25,090	21,458	12,294	10,264	7,796	7,790	8,406	8,680	14,300	14,892	9,689	10,090	433,812
III.	Railways	8,553,944	985,259 Cr. 34,864	454,333 Cr. 21,809	354,781	662,046	663,063	725,496	616,447	403,727	272,077	289,601 Cr. 29	180,021	154,417 Cr. 681	220,894	176,304	247,545	197,105	207,231 Cr. 334	351,600	*374,192	16,032,366
IV.	Roads:-	41.04																	07.55#			
	Roads North of Auckland Main Roads Miscellaneous Roads and Bridges	41,241 718,401	43,773 83,675	17,022 92,520	7,929 111,603	17,566	34,574 30,380	33,163 26,833	30,738 22,294	3,138 13,756	264 10,968	$ \begin{array}{c} 267 \\ 12,799 \\ \hline 10,000 \end{array} $	9,905	11,739	12 588	22,235	22,731	27,959	4,289	241,209	 248,933	
	Roads to open up Lands	44,255 225,000	52,152	35,936	81,634	61,635 84,631	37,165 49,314	37,615 61,794	39,748 57,157	25,989 61,488	26,748 21,954	19,998 28,160	12,489 24,285	6,843 27,993	10 443 21 989	58,042	9,972	17,075	11,195	241,209	240,900	
	Village Settlements Local Bodies	••	••	,	••	106,399	149,982	138,045	81,264 1,891	57,632 12,053	$26,913 \\ 10,770$	$\frac{2,172}{7,345}$	1,586 4,884	10,757 3,829	7 144 4 412	8,951 2,898		••	••			
'	Roads on Goldfields Miscellaneous	267,702	52,987	237	9,439 471	26,602	15,631	31,622	32,625	25,053	7,015	13,290	315 12,687	470 9,795	19 490	390 20,387	17,577	$\begin{array}{c} 227 \\ 21,513 \end{array}$	$\begin{array}{c} 207 \\ 32,578 \end{array}$	49,569	46,550	in maka dikibungu. Peranggan di dianggan Penggan dianggan
	Development of Thermal Springs and Natural Scenery	201,102	Cr. 2,043	Cr. 109		•	••	•	••	••	Cr. 91	Cr. 1,270	Cr. 26,519	Cr. 64,954	Cr. 1 613	Cr. 1,030	Cr. 7,050	Cr. 573	Cr. 365	Cr. 365	Cr. 365	e est daout suit
1	Roads to give access to North Island Trunk Railway Lands Improvement Account		••	¥•	• •	. • °	••.	6,832	12,900	20,410	1,898	248	5,532	30,289	29 440	34,765	17,841 89,207	100 100	16,023	;;	• เมื่อได้ เมาะยาได้ เป	
	Total, Roads	1,296,599	230,544	145,606	211,076	328,642	317,043	335,904	278,617	219,519	106,439	83,009	45,164	36,761	103 893	146,638	150,278	108,168	103,555	290,413	295,118	4,963,114
V.	Development of Goldfields	480,930	16,597 Cr. 20	13,272	6,824	16,596	8,029	9,032	7,665	1,016	55	284	821	2,257	3 811	5,272	5,865	9,345	10,508	33,117	17,354	648,630
VI.	Purchase of Native Lands	772,570	57,836	40,573	29,844	24,480	70,572	34,545	88,836	25,643	9,072	28,194	17,925	52,397	57 187	4,320	349		Cr. 37	61,503	53,182	
	Native Lands Purchase Account		Cr. 950	Cr. 2,661		••	• •	••			••	••.	••		Cr. 10 438 19 575	Cr. 2,428 78,985	Cr. 12 101,009	163,411	129,000	01,303	Cr. 225	
	Total, Land Purchases	772,570	56,886	37,912	29,844	24,480	70,572	34,545	88,836	25,643	9,072	28,194	17,925	52,397	66 324	80,877	101,346	163,411	128,963	61,503	52,957	1,904,257
VII.	Telegraph Extension	368,764	45,281 Cr. 1,498	7,517 Cr. 32	18,654	19,532	25,799	36,010	18,952	22,984	12,047	16,346	16,292	27,773	29,245	16,127	19,229	35,538	36,791	29,384	28,551	829,286
VIII.	Public Buildings:— General (including Miscellaneous)	154 500											-						* .		olidadid atavijire	
- 10.00/2	Parliamentary	154,733		10.000	5,331	8,416	183		947	$12,742 \\ 24$	14,588	7,256	2,880	454	1,588	621 209	2,523 6,822	3,724	8,178	14,797 466	8,764 20,636	
	Post and Telegraph Customs	78,499 $78,944$ $1,969$	55,402 9,336	$16,259 \ 1,752$	16,743 9,939	22,652 22,616	12,227 8,955	11,106 4,880	$\begin{array}{c} 15,875 \\ 2,772 \end{array}$	8,273	8,228	$\begin{array}{c c} 11,246 \\ 1,376 \end{array}$	9,892 709	8,901 1,009	2,779 6,843	$\frac{5,262}{3,154}$	$11,487 \\ 3,542$	$27,341 \\ 6,194$	14,806 7,504	12,727 5,888	11,109 5,168	
ŀ	Survey Quarantine Stations	1,505	••	971	193 20 996	1,659 34 848	830 313	99 461 123	274		••••	18	409	13	5	666	12 28	647	16	385		
	Lunatic Asylums	45,052	39,604	26,699 Cr. 4	31,652	58,047	24,992	4,007	13,694	23,107	10,242	15,717	8,930	16,914	11,887	18,957	306 13,633	10,935	16,404	14,130	17,667	
1 1	Hospitals and Charitable Institutions School-buildings	14,304 278,519	2,219 99,173	140 82,535	64 88,134	256 49,814	3,792 66,069	$\begin{bmatrix} 3,299 \\ 62,884 \end{bmatrix}$	$\frac{4,421}{51,607}$	4,156 40,000	673 779	Cr. 140		7,500	7,999	15,000	15,000	6,561 20,000	700	00.004	40.400	
	Agricultural					••	••	••	••	•••				•••		160	837	1,127	22,143 819	23,864 1,328	43,403 520	at distriction of the second
IX.	Lighthouses, Harbour Works, and Harbour Defences:—	652,020	205,734	128,352	153,072	164,376	117,361	86,859	89,598	90,529	34,592	35,473	22,820	34,791	31,101	44,032	54,190	76,529	70,579	73,585	107,267	2,272,860
	Lighthouses Harbour Works	85,203 113,314	2,636 21,876	2,397 18,812	4,724 100,676	6,730 29,591	7,383 17,050	300 6,508	$\begin{bmatrix} 3,272 \\ 6,004 \end{bmatrix}$	2,866	2,504 Cr. 5,000	1,551 589	189		6,642	2,612		234	6,067	2,180	3,727	
	Harbour Defences	34,514	904	Cr. 2	100,070	7,213	9,601	127,167	139,429	73,459	50,089	7,293	2,477	7,347	4,563	3,976	650 2,495	3,861 3,314	4,667	568	1,777	
	Total, Lighthouses, &c.	233,031	25,416	21,207	105,400	43,534	34,034	133,975	148,705	76,825	47,593	9,433	2,666	7,347	11,205	6,588	3,145	7,409	11,600	2,547 5,295	10,158 15,662	950,070
X.	Rates on Native Lands		••	••			••.		25,139	8,446	10,304	5,874	8,250	2,038	615	415	561	340	332	156	348	62,810
XI.	Contingent Defence	105,000	154,000	133,219	••			25,000	12,500	•••	••				Cr. 8	•••	•••	5,000	10,554	10,360	13,867	469,500
e j take	Charges and Expenses of raising Loans	558,086	193,357	13,575	517	29,877	13,521	47,258	922	59,448	104,911	3,084 Cr 3 084	•••	••	5,356				943	5	225	1,027,990
	Interest and Sinking Funds	218,500			••						<u></u>	Cr. 3,084							Cr. 6	Cr. 5		Astronomical Company
	Coal Exploration and Mine Development	10,835										•••					···	*:	•••		••••	218,500
	Thermal Springs	• •	••		••		•• .	••	7,814	2,999	936	••	2,587	264			••••					10,835
	Advance to Westport Harbour, repayable	••				* / / •	•••	•• ••		14,336	r. 14,336	•••					· · ·					14,000
	Total Ways and Means Credits	Tr lode ear	41,333	27,168	7	1.00	- 25 (27)	74			19,427	4,383	26,519	65,635	12,059	3,458	7,062	573	705	370	590	
	Grand Total—Net Expenditure	15,286,621	1,919,641	950,719	897,038	1,409,589	1,336,727	1,475,386	1,333,484	966,160	613,939	481,346	308,633	325,977	480,468	485,002	590,940	683,336	659,836	865,172		31,985,750

N.B.—The figures in italics, prefixed by "Cr.," are either recoveries on account of services of previous years or receipts-in-aid applied in reduction of expenditure.

The totals from 1892–93 to 1896–97, inclusive, include expenditure under Native Lands Purchase Account, and from 1894–95 to 1896–97, inclusive, expenditure under Lands Improvement Account.

* Includes "Unauthorised," £51.

TABLE No. 3.

EXPENDITURE on Railways to 31st March, 1899, and Liabilities on that Date

				EXPEN	OITURE on	RAILWAYS to	31st March,	1899, and	Liabilities o	on that Date.					
	Total	Total Expenditure		TURE DURING Y		ncluding £18,0 Permanent-way	012 10s. 8d. dis	TRIBUTED FROM	STOCK OF	m , ,		Total	Valuation		
LINES OF RAILWAY.	Expenditure by General	31st March, 1898,		New Works.]			<u> </u>	Total Expenditure by General	Liabilities.	Expenditure by General Government.	of Works	Total Expenditure and	
DINES OF TAXABURA.	Government to 31st March, 1898.	after Distribution of certain Survey Expenditure to Individual Lines			Total New Works.	Works on Open Lines.	Land-claims and other Old Liabilities.	Surveys.	Rolling-stock.		Diabilities.	and Liabilities, 31st March, 1899.	constructed by Provinces.	Liabilities, 81st March, 1899.	Lines of Railway.
	· · · · · · · · · · · · · · · · · · ·				<u> </u>			_				<u> </u>			
Kaihu Valley	= 0 001 0 1	# s. d. 54,758 12 4	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d. 100 6 10	£ s. d.	£ s. d.	£ s. d. 54,858 19 2	£ s. d. 66 0 0			£ s. d. 54,924 19 2	Kaihu Valley.
Whangarei to Kamo Extension	. 79,361 2 1 . 127,056 9 8 . 73,671 6 11	79,361 2 1 127,056 9 8 73,671 6 11		0,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	7,727 11 8 10,091 19 1	6 15 6 1,186 6 10		::	::	79,367 17 7 135,970 8 2	458 0 0	79,367 17 7 136,428 8 2		79,367 17 7 136,428 8 2	Whangarei to Kamo Extension.
Kaipara to Waikato	73,671 6 11 . 1,164,589 7 4 . 51,065 9 9	1,164,589 7 4				3,838 9 9		••	••	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	799 0 0	84,562 6 0 1,168,427 17 1	::	84,562 6 0 1,168,427 17 1	Helensville Northwards. Kaipara to Waikato.
Waikato to Thames—	. 139,016 4 3	139,016 4 3				85 3 3		••		139,101 7 6	••	51,065 9 9		51,065 9 9	Cambridge Branch. Waikato to Thames— Hamilton to Te Aroha.
Te Aroha to Thames	135,432 0 8	135,432 0 8	24,390 16 3	16,630 12 1	41,021 8 4	••		••		176,453 9 0	3,941 0 0			180,394 9 0	Te Aroha to Thames. Thames Valley to Rotorua—
Putaruru to Rotorua	. 161,507 7 0 191,667 14 6	161,507 7 0 191,667 14 6		::		19 18 2	Cr. 52 0 0 178 18 11	••		161,455 7 0 191,866 11 7	113 0 0	161,455 7 0 191,979 11 7		161,455 7 0 191,979 11 7	Morrinsville to Lichfield. Putaruru to Rotorua.
Marton to Te Awamutu— North End South End	. 309,294 17 7 . 283,678 5 9		11,834 19 5 +31,030 14 9		11,834 19 5 31,030 14 9		59 8 11	••		322,938 5 6 +323,184 11 8	728 0 0 5,967 0 0	323,666 5 6		323,666 5 6	Marton to Te Awamutu— North End.
	4,975 1 7	4,975 1 7						••	::	4,975 1 7	0,901 0 0	329,151 11 8 4,975 1 7		329,151 11 8 4,975 1 7	South End. Gisborne to Ormond Tramway. Wellington to Napier—
Napier to Woodville and Palmerston North .	. 781,164 1 2	781,164 1 2			••	6,503 3 1	••	••		787,667 4 3	••	787,667 4 3	••	787,667 4 3	Napier to Woodville and Palmers ton North.
Wellington to Woodville, including Te Aro Extension	10.110.0			••	Cr. 194 2 11	10,071 4 7	271 11 1	••		1,139,202 18 6	137 O O	1,139,339 18 6	••	1,139,339 18 6	Wellington to Woodville, including Te Aro Extension.
Foxton to Waitara	. 1,286,624 9 7 . 162,508 17 9	1,286,624 9 7			••	11,658 4 1 35 4 5	20 0 0 Cr. 2 10 0	••		42,116 3 4 1,298,302 13 8 162,541 12 2	••	42,116 3 4 1,298,302 13 8	••	1,298,302 13 8	Wellington to Foxton. Foxton to Waitara.
Midland Railway-	7 000 4 6	7,823 4 6		191 12 0	6,564 13 6			••		14,387 18 0	 378 0 0	162,541 12 2 14,765 18 0	••	162,541 12 2 14,765 18 0	Nelson to Roundell Midland Railway—
Otira Section	17,142 0 7	17,142 0 7	31,892 7 7 16,228 15 7		34,250 8 0 16,228 15 7	••			::	51,392 8 7 16,269 18 11	16,868 0 0 3,369 0 0	68,260 8 7 19,638 18 11	••	68,260 8 7 19,638 18 11	Belgrove Section. Otira Section. Springfield Section.
Greymouth to Nelson Creek Greymouth to Hokitika	. 187,126 16 7	166,471 11 11 187,126 16 7	••		•••	415 3 8		••	••	166,471 11 11 187,542 0 3	••	166,471 11 11 187,542 0 3		166,471 11 11 187,542 0 3	Greymouth to Nelson Creek. Greymouth to Hokitika.
Westport to Ngakawau		187,512 15 7	4 741 10 7	115 5 0		••	Cr. 5 0 0	••	••	187,512 15 7	•••	187,512 15 7		187,512 15 7	Westport to Ngakawau. Picton to Hurunui—
Picton to Awatere	. 249,456 6 4 . 39,093 6 1	249,456 6 4 39,093 6 1	4,741 13 7	115 7 9	4,857 1 4			••	::	254,308 7 8 39,093 6 1	800 0 0	255,108 7 8 39,093 6 1		255,108 7 8 39,093 6 1	Picton to Awatere. Hurunui to Red Post.
Main Line	F1 405 5 11	1,416,887 5 7 51,467 7 11		••		15,297 2 4		••	•••	1,432,184 7 11 51,467 7 11	56 0 0	1,432,240 7 11 51,467 7 11	316,135 0 0	1,748,375 7 11 51,467 7 11	Hurunui to Waitaki— Main Line. Oxford Branch.
Eyreton Branch Lyttelton Branch	. 71,027 19 6	44,276 12 10 71,027 19 6		••		257 13 9	••	••	::	44,276 12 10 71,285 13 3	••	44,276 12 10 71,285 13 3	340,500 0 0	44,276 12 10 411,785 13 3	Eyreton Branch.
	. 93,415 19 1	85,652 13 0 93,415 19 1		••	••	100 10 11	::	••	•••	85,652 13 0 93,516 10 0	••	85,652 13 0 93,516 10 0	•••	85,652 13 0 93,516 10 0	Southbridge Branch. Springfield & Whitecliffs Branches.
Waimate Branch	. \ 66,471 18 8 \ . \ 47,682 16 6 \ . \ *73,492 19 5	66,471 18 8 47,682 16 6 *73,492 19 5	1	•••	••	55 15 2 37 12 8 90 13 11	::	••		66,527 13 10 47,720 9 2 73,583 13 4	••	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	75,124 0 0	141,651 13 10 47,720 9 2	Fairlie Creek Branch. Waimate Branch.
Ashburton Forks Branch	. 61,308 13 3	61,308 13 3 107,266 18 1		•••	••	48 19 4 206 15 7	•••	••	•••	61,357 12 7 107,473 13 8	••	73,583 13 4 61,357 12 7 107,473 13 8	••	73,583 13 4 61,357 12 7	Ashburton Forks Branch. Upper Ashburton Branch. Little River Branch.
Canterbury Interior Main Line—Oxford to Malvern		53,649 0 4						••		53,649 0 4		53,649 0 4	••	107,473 13 8	Canterbury Interior Main Line— Oxford to Malvern.
Whitecliffs to Rakaia	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	542 6 2 5,152 2 8	••		••	••	•••	••		$\begin{array}{ccccc} 542 & 6 & 2 \\ 5,152 & 2 & 8 \end{array}$	••	542 6 2 5,152 2 8	••	542 6 2 5,152 2 8	Whitecliffs to Rakaia. Temuka to Rangitata
Waitaki to Bluff— Main Line, including Port Chalmers Branch .	. 2,393,857 10 9	2,393,857 10 9				18,221 16 8	••	••		2,412,079 7 5	••	2,412,079 7 5	82,258 17 3	2,494,338 4 8	Waitaki to Bluff— Main Line, including Port Chal-
	. 94,218 18 1 . 24,986 15 9	95,653 18 1 24,986 15 9	••			157 5 8	••	••		95,811 3 9 24,986 15 9		95,811 3 9 24,986 15 9	37,500 0 0 58,009 0 0	133,311 3 9	mers Branch. Duntroon Branch.
Ngapara Branch Fernhill Railway Purchase	1 040 0 4	1,246 8 4 6,473 14 9		•••	••	31 0 6	••	••		1,277 8 10 6,473 14 9	•• .	1,277 8 10 6,473 14 9.	12,829 0 0	82,995 15 9 1,277 8 10 19,302 14 9	Ngapara Branch. Fernhill Railway Purchase. Brighton Road Branch.
Outram Branch	. 11,886 8 3 . 161,825 7 2	11,886 8 3 161,825 7 2				••	••	••	•••	11,886 8 3 161,825 7 2	••	11,886 8 3 161,825 7 2	29,691 0 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Outram Branch. Lawrence Branch.
Livingstone Branch	. 81,992 4 5 . 32,927 7 4	32,982 16 3		::		33 14 1	107 13 10	••	::	82,025 18 6 32,982 16 3		82,025 18 6 32,982 16 3		82,025 18 6 32,982 16 3	Livingstone Branch. Waihemo Branch.
Heriothurn Branch	. 118,682 1 10 . 91,557 18 0 . 107,424 10 4	118,682 1 10 91,557 18 0 108,602 8 6	••		••	 445 13 11		••		118,789 15 8 91,557 18 0 109,048 2 5	160 0 0 	118,949 15 8 91,557 18 0 109,048 2 5	••	118,949 15 8 91,557 18 0 109,048 2 5	Catlin's River Branch. Heriotburn Branch. Waimea Plains Branch.
Toitois Branch	. 107,424 10 4 . 52,264 2 3 . 7,445 1 0	52,264 2 3 7,445 1 0		•••	••	43 2 5		••		52,307 4 8 7,445 1 0	••	52,307 4 8 7,445 1 0	••	52,307 4 8 7,445 1 0	Toitois Branch. Riversdale to Switzer's.
Kelso to Gore	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	602 2 5 $92,052 12 1$	7,215 12 7	3,804 1 7	11,019 14 2	79 9 6	••	••		602 2 5 103,151 15 9	4,786 0 0	602 2 5 107,937 15 9	••	602 2 5 107,937 15 9	Kelso to Gore. Seaward Bush Branch.
Otago Central	. 739,873 13 7	740,065 3 1	,		24,759 14 10	906 15 2	••	••	••	765,625 14 4 251,997 14 7	12,753 0 0	778,378 14 4	01 097 5 0	778,378 14 4 0	nvercargill to Kingston-
Mararoa Branch	. 251,090 19 5 . 27,216 18 7	251,090 19 5 27,216 18 7			::	906 15 2	••	••		27,216 18 7	••	251,997 14 7 27,216 18 7	91,937 5 2	343,934 19 9 27,216 18 7	Main Line. Mararoa Branch. Makarewa to Orepuki.
Thornbury to Wairio	214,413 12 3 4,802 16 9	214,413 12 3 4,802 16 9	3,110 8 4	7,362 10 0	10,472 18 4			••		214,413 12 3 15,275 15 1	 1,789 0 0	214,413 12 3 17,064 15 1	60,297 0 0	274,710 12 3 1	Thornbury to Wairio. Forest Hill.
Expenses of Railway Commissions and other Expenditure not chargeable to Individual Lines		10,336 19 11		.,	•••	••	••	••		10,336 19 11	•••	10,336 19 11	••	10,356 19 11	Exp. of Railway Commissions, &c., not chargeable to Individual Lines.
Surveys of New Lines— North Island	. 30,182 9 3		••		••		••	1,820 17 0		21,611 8 8	297 0 0 294 0 0	21,908 8 8		21,908 8 8	Surveys of New Lines— North Island.
	. 38,824 16 3 . 25,000 0 0					•••		107 10 9	::	36,213 9 11 25,000 0 0	294 0 0	36,507 9 11 25,000 0 0		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Middle Island. Permanent-way for Railway Depart- ment.
Rolling-stock Stock, Mar. 31, 1898, Permanent-way, £51,274 14	. 1,775,236 8 4 1 51,274 14 1				·	••	; l	••	109,297 5 8	1,884,533 14 0	6,815 15 4	1,891,349 9 4	••	1,891,349 9 4	
•	15,658,173 18 9	15,658,173 18 9			İ					!			; ,		
Stock of Permanent-way decreased by 18,012 10 £33,262 3	- .	18,012 10 8			 			••		33,262 3 5	17,296 0 0	50,558 3 5		50,558 3 5	Stock of Permanent-way.
	<u> </u>	-	-		 										
Total	. 15,640,161 8 1	15,640,161 8 1	168,257 6 7	41,408 9 6	209,665 16 1	70,634 11 4	678 9 7	1,928 7 9	109,297 5 8	‡16,082,365 18 6	77,870 15 4	16,110,236 13 10	1,104,281 2 5	17,214,517 16 3	Total.
	<u> </u>	<u></u>	-	1	<u> </u>		0 17a 6d abare	•	1	† Includes amount				<u> </u>	

^{*} Does not include amount expended out of Consolidated Fund, viz., £35 15s. 7d.

[†] Includes £50 17s. 6d. charged to "Unauthorised."

[;] Includes amount expended on purchase of district railways, £477,487 7s. 11d.

T	STALLEMENT SHOWING WE NET EXFERINTURE ON KOADS, BRIDGES, &C., out of the Public Works Funds, and Government Loans to Local Bodies, Lands Improvement, and Native Land Purchase Accounts to 31st March, 1899, and the LIABILITIES on that date.
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		Õ	County.		Electorate.	31s	Total Net Expenditure to 31st March, 1898.	Net Expenditure during 12 Months ended 31st March, 1899.	Total Net Expenditure to 31st March, 1899.	Cont 31st	Liabilities on Authorities, Contracts, &c., 31st March, 1899.
ROADS, BRIDGES, ETC. AUCKLAND LAND DISTRICT—							£ s. d.	e s. d.	£ s. d.	લ	s. d.
Bridge over Kaitaia (Smith's gate) Homestead Blocks, Mongonui	::	Mongonui "	::	Bay of Islands	lands	::	20 0 0 454 15 6	: :	20 0 0 454 15 6		
North Shore-Awanui Mongonui Parish-Awanui (Main Road)	::	•	:	:	:	:	832 12 0	411 1 3	1,243 13 3	388 1	18 9
Victoria Valley to Main Road	`: ::		:	:	:	:	0	504 2 0		295 1	18 0
Houhoura-Awanui	:	*	:	:	:	:	150 0		150 0		
Liabilities of Victoria Valley Road Board	:	2	:	:	•	:		150 6 8	<u>-</u>	49 13	41
Maungataniwha	: : :		::	::	: :	: :	358 5 9	245 1 0	0 07 75	154 19	_
Oruru-Mangamuka	:		:		: :	: :		•			
Oruru-Hikurangi	:	•	:	:	:	:	ر ب	:	ŭ	90 14	9 #
Pakahna Herekina	: :	•	•	:	:	:	010	1	120		
Larmer's-Takahue	: :	. :	: :		:	:		0 07 08	100 0 0		
Kaitaia-Ahipara	: :	: :	: :	t :	: :	: :	· C	C	-	77.	·
Mangonui County Roads	:	: *	:		: :	::	0	200 0 0	0		
Kohumaru Block	:	•	:	:	:	:	:	:	:		
Maungataniwha (11., 111.) Block	:		:	:	•	:	•	:	:		0
Dongston (VIII VIII)		*	:	:	:	:	:	•	;	200	
Takahua (IX X XIV) Block	v.) Block		:	:	:	:	:	:	:		
Maungataniwha (VI.) Block	: :		:	:	:	:	:	:	•	0 000	
Maungataniwha Blook	: : : :		: :	: :	: :	: :			4	16.0	0
Takahue Block	:	: \$:	::	: :	: :	10			160 6	
Takahue-Whangape Block	:	:	:	:	:	:	663 16 6	224 18 10	888 15 4	69 13	
Warkworth-Awanui	:	•	:	:	:	:		(
Kapo Whangaroa	:	*	:		:	:	:	0 0 0 22	0	25 0	0
Managostos	:	*	:	:	:	:	:	2	<u>و</u>	24 10	
Mongonni-Taina-Awanni	:	*	:	:	:	:	:	0	0		
Takahue Village-Victoria Valley	: :	*	:	:	:	:	:	:	•	0 0 0 0 1	
Victoria Valley-Kaitaia	: :	: :	: :	:	:	:	:	150			> <
Warkworth-Awanui (see also under North Shore,	rth Shore,	Mon	hangaroa, B	 	: :	::	15.620 10 9	>	15.620 10 9		
Awanui, in separate counties)			of Islands, Whangarei	`	:	:	2	•	3	:	
Okaihau to Victoria Valley	:	Mongonui, Hokiang	lokianga, Bay	ay "	:	:	8,158 7 6	71 16 9	8,230 4 3	228 8	က
Totara-Whangaroa to Kaeo	:	Whangaroa	:	:	:	:	550 0 0	:	550 0 0	:	
Kaeo Parish-Mangonui Parish (Main Road)	 g;		:	:	:	:	296 0 0	299 19 6	595 19 6	100 0	9
Carried forward	:					٦	39 955 7 4	9 809 14 6	38 788 1 10	0 000 8	

TABLE NO. 4—continued. STATEMENT showing the Net Expenditure on Roads, &c.—continued.

		- 1	9	SIC THE TATEMPTORE	TOTTOPE	OH TROWNS, OC.	continued.				
Name of Work.		County.		Electorate.		Total Net Expenditure to 31st March, 1898.	Net Expenditure during 12 Months ended 31st March, 1899.	Total Net Expenditure to 31st March, 1899.	Liabilities n Authorities, Contracts, &c., 31st March, 1899.	Total Net Expenditure and Liabilities.	
		,				ď	α	0	u	ō	
Brought forward	:	:		:	•	32,955 7 4	2,802 14 6	35,758 1 10	3,903 2 4	39,661 4 2	
AUGRIAND LAND DISTRICT—continued.											
Whangaroa County Roads	Whangaroa	80	:	Bay of Islands	:	0	100 0 0	0	100 0 0	1,000 0 0	_
Iwitaua to Kaeo	:	:	:		:					0	_
Kaeo-Waimate	:	:	:	:	:	732 16 3	100 0 0	16	က	0	-
Totara Foreshore Bridge (renewing)	:	:	:	:	:	:		:		100 0 0	-
Walkoura Bridge (repairs)	:	:	:	:	:	(100 0 0		100 0 00	Ċ.	_
Mangonui boundary to Iwataua	:	:	:	:	:	0 0 00%	:	200 0 0	(0	_
Whangaroa-Kaeo (widening bridging, &c.)	: :	:	:	:	:	:	:	:	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100 0 0	_
Bay of Islands District	Bay of Islands	lands	: :		: :	34 903 16 5	:	34 909 18 5	>	ب د د	_
Main Road, Lot 2, Block XIV, Hukerenui S.D.	:	::	: :	. :	: :		Ċ.	30		96	_
Opua-Waimate	:	•	:	: :	:	Ξ	75 16 6	1	164 8 6	· -	
Hukerenui South-Waiotu Valley	:	:	:	:	:	9	14	0	9	9	
Kawakawa Roads	:	:	:	:	:	150 0 0	:	150 0 0	:	150 0 0	-
North Snore-Awanui Huberenni-Kasa Parish (Main Road)	*	:	:	:	:	336 0 2	588 13 6	924 13 8	411 6 6	1,336 0 '2	
Hashra Bridge	-					-					
Waitangi-Kajkohe		: :	: :	:	:	D. C	:	0 0 000		0 0 006	_
Hayter's-Morrow's	::	: :	: :	: :	: :	>	: :	>		0 0 02	
Ngapipito Road		:	:	:	: :	587 14 10	: :	587 14 10	0	14.1	
Motatau	:	:	:	:	:	:	:	:	0	0	_
Ohaeawai Kaikohe	:	:	:		:	:	:	:	0	0	_
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Name of Work.		County.		Electorate.		Total Net Expenditure to 31st March, 1898.	Net Expenditure during 12 Months ended 31st March, 1899.	Total Net Expenditure to 31st March, 1899.	Liabilities on Authorities, Contracts, &c., 31st March, 1899.	Total Net Expenditure and Liabilities.
Brought forward ROADS, BRIDGES, ETC.—continued.	:	:		:		£ s. d. 75,417 11 10	£ s. d. 4,401 10 1	£ s. d. 79,819 1 11	£ s. d. 7,828 1 0	£ s. d. 87,647 2 11
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TABLE NO. 4—continued. STATEMENT showing the Net Expenditure on Roads, &c.—continued.

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TABLE NO. 4—continued. STATEMENT showing the Net Expenditure on Roads, &c.—continued.

Brought forward Roads, Bridges, etc.—continued. Giles's Corner-Great North Road Griles's Corner-Great North Road Griles's Corner-Great North Road Grahamstown-Parua Bay Hikurangi-Jordan Jordan-Hukerenui Station (bridge-road) Manunt-Maungatepere-Mangakahia Mareden Point to Waipu Marenetu-Finlayson's-Waipu Opuawhanga-Otonga East Tangihua No. 2-Tangitaroria Tangihua No. 2-Tangitaroria Tangihua No. 2-Tangitaroria Tokatoka-Mangakahia Tokatoka-Mangakahia Tokatoka-Mangakahia Tokatoka-Mangakahia Waipu Will, XIV, Block Opuawhanga to Whangarei Opuawhanga to Whangarei Opuawhanga to Whangarei Opuawhanga-Whananaki Waipu River, £1 for £1 (depening)	Marsden	:::::::::::::::::::::::::::::::::::::::	£ s. d. 132, 731 19 5	10,641 9 8 d	m o m		# 8. d. 158,987 5 5 70 0 0 200 0 0 200 0 0 150 0 0 100 0 0 100 0 0 1,102 1 6 200 0 0 1,102 1 6 200 0 0 1,102 0 0 100 0 0 100 0 0 1,102 0 0 100 0 0 100 0 0
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Maungakaramea-Tangihua	:	:	:	:		150 0 0	
North River, Waipu	:	:	0	:		•	
Drevers-Otonga East	:	:	150 0 0	:	0	:	
Grahamstown, Whangarei	:	:	0	:	0	:	
Otonga East-Whananaki	:	:		:	0	:	
Whareora-Grahamstown	:	:	150 0 0	:	150 0 0	:	n ner
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							Total Net	Net Expenditure	Total Net	Liabilities on	Total Net
Name of Work.		တိ	County.		Electorate	je I	Expenditure to 31st March 1898.	during 12 Months ended 31st March, 1899.	Expenditure to 31st March, 1899.	Authorities, Contracts, &c., 31st March, 1899.	Expenditure and Liabilities.
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Whareora-Taheke-Pataua	:		:	:		:		:		•	0
Opuawhanga to main road	:	•	:	:		:	200 0	•	0	:	0
Waipu Central	:		:	:		:	0		0	•	_
Ruskaka-North River	:	:	:	:	*	:	•	300 0 0	0	:	_
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Opanake-Mongonui Bluff			: :	: :	: :	: :	î 	1		100 0 0	150 0
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Mangawille-Kaikohe Mangawhare-Openaki Mangawhare-Openaki Mangatu Special Settlement (viā Mongonu Bluff)- West Goast Maungaru Sp cial Settlement Openaki-Mongonui Bluff-West Coast Omu Wharf, Avoca Dranning Tatarariki Wairoa, Ferry, Dargaville Maropiu to Kai-iwi Tangowahine Bridge Tekopuru Wharf, £1 for £1 Main Road to Openaki Railway-station Tangihua Tangihua Tangihua Tangihua Tangihua Tekopuru-Kaipara Heads Tekopuru-Kaipara Heads Tekopuru-Kaipara Heads Tikirui Boads-Kopuru Mareikura (1.) Block Wairoa (Dargaville) Maungaturot to Tokatoka Tohini-Maungaturoto Topini-Maungaturoto Topini-Maungaturoto Topini-Maungaturoto Bridki's	Brought forward Roads, Bridges, erc.—continued. Mangakahia (XIII.) Mangaru (I.) Block Mangakahia (XIII.) Mangaru (I.) Block Manugaru (VII., VIII.) Block Tutamoe (XIII., XIV.) Katiri (III., VII.) Block Aucas Special Settlement Block Dargaville-Kaikohe Mangawhare-Danaki Mangawhare-Danaki Mangawhare-Danaki Mangawhare-Danaki Mangawille-Kaikohe Mangaru Special Settlement (vid Mongonu Blufi West Goast Manugaru Sp cial Settlement Opanaki-Mongonii Bluff-West Goast Omu Wharf, Avoca Draining Tatarariki Okahu Wairoa Ferry, Dargaville Maropiu to Kai-iwi Tanginua Marojiua Marojiua Marojiua Marojiua Marojiua Mittiai to Tokatoka Te Kopuru-Tikinui Mittiai to Tokatoka Te Kopuru-Kaipara Heads Tikinui Roads-Kopuru Mareikura (I.) Block Mareikura (I.) Block Wairoa (Pargaville) Maungaturoto to Tokatoka Pahi-Waikiekie Braigu's	Hobson 11	County.	Bay of Islands Bay of Islands Marsden Bay of Islands	Bay of Islands	Expenditure to alst March, 1896. 147, 977 1 7 629 14 1 850 0 0 850 0 0 1, 238 19 1 250 0 0 1, 238 19 1 250 0 0 1, 238 19 1 250 0 0 1, 238 19 1 250 0 0 2	### during all Morths ended 31st Morths ended 31st Morths is 3. d. 14,571 1 7 7 7 7 8 6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Q H . •	111 111 111 111 111 111 111 111 111 11	alithus builting s. d
Mareretu Jordan's	::::	::::	::::	: : : :	::::	1,004 13 0 100 0 0 500 0 0 3 18 0	95 0 2	1,099 13 2 100 0 0 500 0 0 3 18 0	100 8 6	1,199 16 8 100 0 0 500 0 0 303 18 0
Carried forward	:	:	:	. 1	:	156,675 19 6	15,376 15 7	172,052 15 1	28,014 7 4	200,067 2 5

TABLE NO. 4—continued. STATEMENT showing the New Expenditure on Roads, &c.—continued.

Figure 1982	The county The			TUTO	TATEMETER	T STOWING	aria Siri	191	TAL PRIVATE OF THE	OH TOADS,	wo: -construct.			
Marsden Marsden Marsden 1906 675 15 15 17 172,003 15 1 18 104 7 4 1900, 607 1900 1900 10000 10000 10000 1	156,675 19 6 15,376 15 7 172,032 15 1 28, 41, 19,376 15 7 172,032 15 1 28, 41, 19,376 15 7 172,032 15 1 28, 41, 19,376 15 7 172,032 15 1 28, 41, 19,376 15 7 172,032 15 1 28, 41, 19,376 15 7 172,032 15 1 28, 41, 19,376 15 7 172,032 15 1 18, 41, 41, 41, 41, 41, 41, 41, 41, 41, 41	Name of Work.			Count	ن۶.		Elector	æte.	Total Net Expenditure to 31st March, 1898.	Net Expenditure during 12 Months ended 31st March, 1899.	Total Net Expenditure to 31st March, 1899.	Liabilities on Authorities, Contracts, &c., 31st March, 1899.	Total Net Expenditure and Liabilities.
Columbries Columbies Col	Colomates Colo	Brought forward ROADS, BRIDGES, ETC.—continued. AUCKLAND LAND DISTRICT—continued.			:			:		g s. 675 19	£ s.	s. 15	£ s.,014 7	
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Notice and Octamists and Marsden 194 7 10 10 10 10 10 10 10	Rodiney and Otamistea Rodi	Matakohe-Tokatoka	•	•		•	:		:	27 1	:	123	0	018 12
Notice and Orange an	Rodney and Otamatea Rodney	Matakohe-Mongontti	•			:	:		:	<u> </u>	:	<u>-</u>	0	<u>-</u>
Noting and Orametea	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Pahi Wharf	:			:	:		:	=	:	0	:	0
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Rodiney and Otemaska and Marsdon 124 0 0 1124 0 0 1124 0 0 1124 0 0 1124 0 0 1200 0 0 0 0 0 0 0 0 0	Rodiney and Otematea Rodiney R	Valley Road, Paparoa	:	•		:	:		:	41 (e ,	ۍ د	15	4. 0
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Nodiney and Otamatea Nodine Nodin	Rodney and Otamatea Rodney Rodne	Block All., Paparoa	•.	•		:	:		:	>	:	>	ć	> 0
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Mathemate and Marsden 5,927 5 4 2,668 8 5 8,595 8 9 170 4 2 2,580 0 2,580 0 1,000	Rodney and Otamatea Parish	Hardie's Bridge (repairs)	:	*		:	:		:		:	(- ;) ·
Notice Color Col	Rodney and Otamatea and Marsden 746 9 10 88 16 0 835 5 10	Tokatoka Swamp Block	:			:	:	Ł	:	:n	:	no.	2 16	
Noding and Otamatea Nodite	Rodney and Otamatea Naitemata and Marsden 1,247 5 4 2,668 3 5 8,535 8 9	Tokatoka Swamp (No. 2) Block	•	*		:	:	2	: :	: :	(• 1	000	د د
Matter M	Orce Awanui Matteninata and marsholi 740 9 10 0.50 10 0	Tokatoka Swamp (drainage, road, and tram	мау) ∵	*		:		Land of the Care	Menadon	0 7.76	ا ان د	595 8	41 -	68 12
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ai Bridge (to account) Rodney and Otamatea Rodney R	ai Bridge (to account) Bodney and Otamatea Rodney and Otamatea	North Shore, Awanui Habrara - Waibiabia Parish (main mad)				:	Wa.	temata	:	17	-	19	18	
Rodney and Otamatea Rodney and Otamatea Rodney and Otamatea Rodney and Otamatea Rodney Rod	Rodney and Otamatea Rodney	Mangawai Rridge (to account)	į	_									C	
Rodney R	Rodney R	Hoteo Valley-Mangawai	: :	. Rodne	ve and Ot	amatea.	: :	. .	: :	: :	: :		0	0,0
1,254 2 10 10 10 10 10 10 10	Applies	West Coast Road, Hoteo	: :	Rodne	Y ATT		: :		: :	12	: :	12	,	-
-Hakuru (main road) 25	-Hakuru (main road)	North Shore-Awanui		_	•			:		G	o	÷	=	C
Omada Wharf 80 0 0 0 195 0 0 185 0 0 <t< td=""><td>Omaha Wharf 80 0 0 0 180 0 0 0 na Bridge 392 7 6 185 0 0 185 0 0 185 0 0 maha (Warkworth-Pakiri) 200 0 187 13 4 285 15 9 285 15 9 maha (Warkworth-Pakiri) 272 16 272 16 0 4 13 0 272 16 0 Rawanu 272 16 272 16 0 4 13 0 272 16 0 Jailoy Road 200 0 0 0 156 5 9 272 16 0 Lisa District 200 0 0 0 156 5 9 272 17 9 trh-Main Road 150 0 0 4 7 1 4 7 1 4 7 1 trh-Kaipara Flats and Tauhoa 150 0 0 0 150 0 0 0 Flats Settlement 150 0 0 0 150 0 0 0</td><td>Waiwera-Hakuru (main road)</td><td></td><td></td><td></td><td>:</td><td>:</td><td>2</td><td>: :</td><td>4</td><td>0</td><td>7</td><td>ĭ</td><td>N</td></t<>	Omaha Wharf 80 0 0 0 180 0 0 0 na Bridge 392 7 6 185 0 0 185 0 0 185 0 0 maha (Warkworth-Pakiri) 200 0 187 13 4 285 15 9 285 15 9 maha (Warkworth-Pakiri) 272 16 272 16 0 4 13 0 272 16 0 Rawanu 272 16 272 16 0 4 13 0 272 16 0 Jailoy Road 200 0 0 0 156 5 9 272 16 0 Lisa District 200 0 0 0 156 5 9 272 17 9 trh-Main Road 150 0 0 4 7 1 4 7 1 4 7 1 trh-Kaipara Flats and Tauhoa 150 0 0 0 150 0 0 0 Flats Settlement 150 0 0 0 150 0 0 0	Waiwera-Hakuru (main road)				:	:	2	: :	4	0	7	ĭ	N
ta Bridge 125 0 125 0 0 0 125 0 0 0 125 0 0	Bridge 125 0 0 125 0 0 125 0 0	Road to Omaha Wharf	•			:	:	2	:	0		0	:	0
River Bridge Rive	Sample (Warkworth-Pakiri) Sample	Matakana Bridge	:			:	:	Ł	:	ı	0	0	:	
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$\begin{array}{cccccccccccccccccccccccccccccccccccc$		Warkworth Kainara Flata and Tanhoa	•			:	:		:	19	10	2	6	19
		Kaipara Flats Settlement	•			::	::		: :	0	ì	0)	
		•								5	,	4		
		Carried forward			:			:		7		Γ'n	5	

Name of Work.			S	County.		Electorate	orate.	Total Net Expenditure to 31st March, 1898.	Net Expenditure during 12 Months ended 31st March, 1899.	Total Net Expenditure to 31st March, 1899.	Authorities, Contracts, &c., 3lst March, 1899.	Total Net Expenditure and Liabilities.
Brought forward Roads, Bridges, Bridges, Pro-		:	,					£ s. d. 172,893 12 1	£ s. d. 19,431 7 7	£ s. d. 192,324 19 8	£ s. d.	£ s. d. 225,418 9 0
Matakana Ranges	:	:	Rodney	:	:	Waitemata	:	294 16 10	55 3 2	350 0 0	144 16 10	16
Ahuroa Road	:	:		:	:		:	0	:			
Matakana Wharf (Mahurangi Heads)	:	:	*	:	:	"	:		:		100 0 0	0
Warkworth (southward)	:	:	*	:	:		:	0 0 008		300 0 0		0
Tauhoa	:	:	:	:	:		:	:	0 0 86		0 0 0 0 0 0 0 0 0 0 0	
Mahurangi Whart	:	:		:	:	2	:	:	:	:		> <
Makarau Bridge-West Coast	:	:	2	:	:		:	:	:	•	0	
Metabone Benges To Avei	:	:		:	:	2	:	:	:	•	0	0
Te Arai-Mangawhai	:	: :	2 :	: :	:	• :	: :	: :		•	-	0
Warkworth-Matakana	:	: :			:	• :				:	0	0
Hoteo Bridge	: :	::	: 2	: :	::	: 4	: :			- : :	0	0
Mahurangi Bridge (Warkworth)	:	:	. 5	:	:		:		:	:	0	0
Upper Makarau Bridge	:	:		:	:	: \$:	:	•		0	0
Tauhoa Block	:	:	Rodney	:	:		:	0 0 088	:	380 0 0	0	0
Warkworth Wharf-Courthouse	:	:		:	:	ż	:		:	•	100 0 0	0
Tauhoa and Komokoriki Block	:	:	*	:	:		:	325 0 0		0		0
Makarau-Railway Station	:	:	t	:	:	•	:	(-	119 15 10		o 6
Anuroa Block	:	:	,,	:	:	Ł	:	432 0 5	0 7 69		`- °	000
Anuroa-Komokoriki	:	:	2	:	:	2	:		:			> <
Wenter Diock	:	:		:	:		:	>	:	>	:	>
Warkworth Dildge Kainare Flat Tanhos	:	:	2	:	:		:	: 4	:	: "	:	:
Puhoi Bridge	:	:	*	:	:	*	:		100 10 8	9	000	0 00%
Wade to Wainni	: :	: ;	. :	:	: :	z :	: :	0 0 001	3	100 100	٥	
Hoteo Valley-Te Arai	: :	: :	: :	: :	: :		: :	;	: :	,	100 0 0	
Helensville to Kaukapakapa	:	:	: 2	:	:	: \$:	. 658 19 1		658 19 1		
Puhoi-Warkworth	:	:	·	:	:	2	:	:	3 12 6		46 7 6	20 0
North Shore-Awanui	:			:	_;	z	;	330 10 5	560 15 3	891 5 8	239 4 9	1,130 10
Morth Shore-Walwers (Main Road)	:	_	:			٠.	•		•		9	
Warkworth Welstord	:	:	*	:	:		:	:		0	5 F	000
Warkworth-raipara riats	:	:		:	:	2	:	•	5		67	
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,	-two hridoes	:	Bodney and Waitemat	Waitemat	:		:	:	3	or.	# C	
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Kaukapakapa-Port Albert	:	:			:	: :			: :		0	150 4 0
Waikomiti West	:	:	Waitemata	:	:	: 2	:	1,100 0 0	: :	1,100 0 0		1,100 0
Upper Waiwera-Wade-Wainui	:	:	2	:	:	ž	:	:	:	:	100 0 0	100 0
Luciani Common								157 500 1 10	0 0 0 0 0 0 0	007 007	56 619 19 6	1 000 300
Carried Iorward	;								•	2		

TABLE NO. 4—continued. STATEMENT showing the Net Expenditure on Roads, &c.—continued.

		TATELLA	0770	там этп Этгм	TAFFRADITORE	TOADS, OC.	continued.			
Name of Work.		Cor	County.	EI	Electorate.	Total Net Expenditure to 31st March, 1898.	Net Expenditure during 12 Months ended 31st March, 1899	Total Net Expenditure to 31st March, 1899.	Liabilities on Authorities, Contracts, &c., 31st March, 1899.	Total Net Expenditure, and Liabilities.
Brought for ward Boads, Bringes, byc.—continued,	:	•	•		:	£ s. d. 177,790 4 10	£ s. d. 20,618 3 0	£ s. d. 198,408 7 10	£ s. d. 36,613 13 6	£ s. d. 235,022 1 4
AUCKLAND LIAND DISTRICT—continued, Boad to Kankanakana Railway Station	;	Waitemata	;	Waitemata	;					400 0 0
Helensville to Kaipatiki	: :		: :	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	: :	2,236 5 7	: :	5	: :	c
Huia-West Coast	: :	: *	:	:	:	:	250 0 0	250 0	: :	250 0
Woodhill Bridge	:		:	:	:	264 14 3		14	:	14
Henderson-Swanson (metalling)	:	*	:	:	:	:	150 0 0	150 0 0	:	0
Thner Weiwers Road Wetension	:	*	•	:	:	:	.)		
West Coast Boad-Waitangi	: :	: :	: :		: :	: :	: :	: :	100 0 0	100 0 0
Waodhill-Parkhurst	:		:	:	:	:	:	:	0	0
Wade Village-Orewa	:	*	:	:	:	(•	,	0	0
Wade-Lucas Creek	:		:	:	:	700 0 0	:	200 0 0	0	0
Creat Darrier Island Fords Rewriti Doubhingt	:		:	:	:	:	150	150 0 0		
Waikomiti to Swanson	: :		: :	: :	: :	500 0 0	>	500 0 0	•) C
Dairy Flat-Lucas Creek	: :		::		: :)	: :	>	200 0 0	0
Wainui-Kaukapakapa	:	: \$:		:	:	150 0 0	150 0 0		0
Inland Road-Kaukapakapa	:		:	:	:				_	0
Waiwera Springs	:	*	:	:	:	366 1 3	_	Π,	32 8 8	0
Track to Kauri Forest, Wattakerei	:	2	:	To 300.	:	<	400 0 0	=	:	0
What is nenderson creek	:		:	·· Fuen	:					
Stoke's Point to Lucas Craek	:	ž.	:		:	-	>	-	>	
Swanson-West Coast	: :	: :	: :	: :		0	200 0 0	0	100 0 0	
Stoke's Point to Lake District	:		:	:	:	200 0 0	:			0
Birkenhead Slip, £1 for £1	:		:	***	:		:			
Great North Road (cut hill)	;	*	:	Eden and	and Waitemata	:	:	:	0	0
Henderson-West Coast	:	*	:	Eden	:	:	:	•		100 0 0
Wainui-Kaukanakana Railway-station	: :	. :	: :	: :	: :	: :	: :	: :	0 0 00%	0
Waikomiti West	:		:	:	:	•	:	: :	0	0
Great North Road, from Whan Bridge-Walkomiti	Naikomiti	ì	:	:	:	:	:	:		0
Cemetery WaikomitiHuis						450 0 0	0 0 011			
Birkenhead-Warkworth	: :	Waitemata and Rodney	nd Rodnev	Waitemata	: ;		>	0	•	0
Rangitoto Mountain, £1 for £1	: :	Eden	:	Manukan	: :	0	20 0 0		: :	0
Oakley Creek Bridge (£1 for £1)	:	:	:	Eden	:	:		:		0
Urakei Bridge (repairs)	:		:	Manukau	:	•	3,	472 10	27 9 11	200
Tamaki Bridge (Panmure)	: :	Manukau	: :	Eden		399 0 10	106 5 6 269 3 1	17,926 10 9 668 3 11	700 16 11	17,926 10 9
			•					,	;	}
Carried forward	:				:	201,831 12 0	23,247 11 9	225,079 3 9	39,974 9 0	265,053 12 9
				-						

	&c.—continued
muea.	BOADS.
cour	on
IABLE NO. 4continues	EXPRNDITURE
A A B	NET
	the
	showing
	STATEMENT showing the Net Expenditure on Boads. &c.—continued

			CO	County.		Electorate	rate.	Total Net Expenditure to 31st March, 1898.	Net Expenditure during 12 Months ended 31st March, 1899.	Total Net Expenditure to 31st March, 1899.	Authorities, Contracts, &c., 31st March, 1899.	Total Net Expenditure and Liabilities.
Brought forward	:	:	• •					£ s. d. 201,831 12 0	£ s. d. 23,247 11 9	£ s. d. 225,079 3 9	£ s. d. 89,974 9 0	£ s. d. 265,053 12 9
AUCKLAND LAND DISTRICT—continued. Panmure Whari (repairs)	:	:	Manukau	:	:	Manukan	:	:	:	:	0	100 0
Otahuhu Wharf	:	:		:	:	2	:	:			100 0 0	0
Outsu Swamp (drainage and road)	:	:	*	:	:	*	:		50 0 0	0	0	0
Hunua to Railway-station	:	:	Ł	:	:	Franklin	:	_			41:	586 19 7
Awhitu Road and Wharf	:	:	•	:	:	*	:	C/1 (180 11 11	<u>4</u>		0
Futamahoe to Stemson's Corner	:	:		:	:	•	:	٥ د	:	0 0	:	0
Maioro to Port Waikato	:	:	*	:	:	2	:	> <	:	0	:	-
Awaros Swamp, £1 for £1	:	:	•	:	:		:		:		:	
Fayment to Ferryman, Fort Walkato	:	:		:	:		:	01 / 10	<	7 10		01.70
Fukekohe-Waluku	:	:		:	:	Ł	:	N C	2	N (0 0 0/2	N (
Fukekobe	:	:	*	:	:		:	٥ (:	o (:	5
Funt at Tuakau		:		:	:	*	:	<u>ه</u> د	:	9 6 076	:	n (
Fukekone Kaliway-station inrough Last Fukekone	t Fukek	ope		:	:		:		:	N	:	
and bombay					-		,					(
Duckland Scarlon	:	:	Ł	:	:	•	:	0000		0	:	0 0 00 00 00 00 00 00 00 00 00 00 00 00
Maungatawnin valley	:	:		:	:		: :	> <	:	> <	:	> c
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Tuakau-waikato	:	:	*	:	:	•	:	> 0		0	ć	- -
Awaroa Swamp Drain and roads	:,	:	•	:	:	*	:	0 7 010		77 (0 0 001	77 (
Aksaka Swamp	:	:	•	:	:	•	:		:	1,890 10 9	:	1,890 10 9
Ovalla to Deed s	:	:		:	:		:	o c		> <	:	> <
Month Builde (Burshy).	:	:	t	:	:	•	:	_	:	=	2 10 10	-
Mejoro Errama (dreipage and road)	:	:	Ł	:	:	Ł	:	13.1	0 6 86	1 25	7.0	
Which Good Road	:	:		:	:	*	:	d c	1	e c	:	20
Wanku District	: :	:		: :	: :			ı c	•	3 0	•	√
Patimehoe	: :	-	ŧ :	: :	: :		: :	0		· C	: :	· C
Abraham's Gullv	: :	: :	: 2	: :	:		: :	0	•		:	100 0
Otau	:	:		:	:		:	1,104 16 2	389 5 7	1,494 1 9	110 14 5	1,604 16 2
Akaaka Swamp Block	:	:		:	:	ż	:	331 8	:	80	•	331 8
Otau Block	;	:	ŧ	:	:		:	0		0		2,350 0
Wairoa River-Otau	:	-:		:	:	×	:		297 3 10		18 6 2	
Tauranga Creek Wharf	:	:	è	:	:		:	100 13 6	:	100 13 6		
Aka-Aka-Otaua	:	:	•	:	:	•	:	:	:	:	0 (
Hunua Road	:	:	*	:	:		:	:	:	:	۰ د	300 0
Hunua-Main Koad	:	:		:	:	*	:	:	:	:	> •	0 000
Matalal-Clevedon	:	:	Ł	:	:	2	:	:	,	٤	٠ ا	
Otan Block-Ness Valley Detumable Wort Mania (matalling)	:	:		:	:	•	:	:	ာင္ တိုင္	20 00	0 0 02	
Fabuttanoe-West Maund (Mistans)	:	:	£	:	:	•	:	:	۱	ا د	ا د	>
Carried forward	:	-:	•			:		217,768 7 2	24,409 1 1	242,177 8 3	42,150 9 0	284,327 17 3

Name of Work.	,		County.		Elect	Electorate.	Total Net Expenditure to 31st March 1898.	Net Expenditure during 12 Months ended 31st March, 1899.	Total Net Expenditure to 31st March, 1899.	Liabilities on Authorities, Contracts, &c., 31st March, 1899.	Total Net Expenditure and Liabilities.
Brought forward Roads, Bridges, etc.—continued.	: 		:		÷		£ s d. 217,768 7 2	£ s. d. 24,409 1 1	£ s. d. 242,177 8 3	£ s. d. 42,150 9 0	£ s. d. 284,327 17 3
Pollok to wharf	:	. Manukan	:	<u>E</u>	Franklin	:	:	:	•	0	100 0 0
Pollok Settlement Main Road	•	*	:	:		:	:	:	:	0	0
Tauranga-Maraetai	•		:	:	*	:	,	•	4		
Hunua-Ararımu	:	*	:	:	*:	:	٦,	143 0 10	186 2 1	114 14 8	16
South Bombay to Paparata	:		:	<u>`</u>	waikato	:	100	:	-	•	0
Mongetong Bridge	:	2	:	:		:	-	:	> <	:	8 0 600
Caset Courth Dood	:~	•	:	:	2	:	>	:	>	:	200 0 0
Otahuhu_Cambridge	•	Manukau and Waikato	nd Waikato	:	Franklin and Waikato	Waikato	767 6 2	600 12 4	1,367 18 6	49 7 8	1,417 6 2
Mercury Bay-Mahikarou	· :	Coromandel	:	Ε.	Thames	:	400 0 0	:	400 0 0		400 0 0
Coromandel-Thames		,	: :	: :		: :	0	: :	- -	•	
Coromandel-Port Charles			:	:	: :	: :	0	: :	0	•	0
Coromandel-Tairua					: :	: :	C	: :	· C		0 0 00%
Coromandel Wharf	: :	: 3	:	:	: :	:	5		6		o.
Coromandel-Mercury Bay	•	: \$:	:	: 3	:	14 4 8	:			14 4 8
Cabbage Bay-Cape Colville	:	: \$:	:	: 2	:	0	:	350 0 0	:	350 0 0
Tairua-Whenuakite	:	*	:	:	*	:	0	:	0	:	550 0 0
Kuaotunu Cemetery Road	:	*	:	:		:	0	:	100 0 0	:	100 0 0
Wharauroa	:	•	:	:	*	:	0	:.		:	0
Kaimarama Block	:	È	:	:		:	0	:	0	:	0
Thames	:	Thames	:	:	2	:		:	20 5	:	
Kepairs flood-damage at Thames	:		:	:	*	:	2 5	:	2,	:	25
Thamse Dorough	•	•	:	:	*	:	2,452 IO 0	:	2,452 10 0	:	2,452 IO 0
Removed of energy Themes Piver	:	*	:	:	*	:	- <u>α</u>	•	2 0	:) q
Puriti-Pairos	•		: :	:	•	:	9 0	•	90	:	9 0
Waintahi Village Homestead-Thames			: :	: ;		:	, 	•	-	:	- ·
Kanaeranga Vallev Road			: :	: :		: :	300 0 0		300 008	: :	- C
Thames-Tauranga		Thames, Ohinemuri.		and	Thames. Ohir	Ohinemuri, and	œ		oc	• ;	oc
		Tauranga						•	>	•	>
Waihi Bridge subsidy, £1 for £1	:	Ohinemuri	:	0	Ohinemuri	:	0	:	0	:	0
Waihou Ferry through Komata	:		:	:		:	80 13 0	:	13	:	13
Paeroa-Owharoa	:	•	:	:	2	:	0	:	0	:	0
Sundry roads, Waiton District	:	*	:	:		:	0 0	:	0	:	0
Grant to Ohinemuri County	:	•	:	:	*	:	0	:	0	:	0
Hikutaia to Ohinemuri	:	": **	:	:	7 ""	:	4,022 7 7	:	4,032 7 7	:	4,022 7 7
Waikato	:	Walkato	:	:	Walkato	:	Ξ,	:	Π,	:	Ξ,
Hamilton to Cambridge	:	•	:	:	*	:	0 0 001		100 0 0		0
Ohinewai-Matahura	:		:	:		:	٠	1 98 2 1		101 14 11	350 0 0
Carried forward	:		:		:		271,073 11 9	25,250 19 4	296,324 11 1	42.866 6 3	339,190 17 4
				_							
			ĺ								

TABLE No. 4—continued.

		County.	ty.		Electorate.	Total Net Expenditure to 31st March, 1898.	Net Expenditure during 12 Months ended 31st March, 1899	Total Net Expenditure to 31st March, 1899.	Liabilities on Authorities, Contracts, &c., 31st Morch, 1899.	Total Net Expenditure and Liabilities.
Brought forward Roads, Bridges, etc.—continued.	:	•			•	£ s. d. 271,073 11 9	£ s. d. 25,250 19 4	£ 3. d. 296,324 11 1	£ s. d. 42,866 6 3	£ s. d. 339,190 17 4
AUCKLAND LAND DISTRICT—continued. Homokoran Bridge		Waikato	:	Wa	Waikato	250 0 0	:	250 0 0	•	250 0 (
Removal of punt, Te Rori to Churchill	::	*	: :				:	1-1	:	-
Removal of Churchill Punt	:		:	-	:	CV (1	O1 1	į	ତୀ (
Blocks X. and XI., Rangiriri Survey District	:		:	•	•		37 7 0		14	250 0 0
Puriri Block	:	•	:	-	:	:	:	:	981	0
Koad to Section 485, Whangamarino	:	2	:	•	:	:	:	:		-
We groupe Gtation We group Settlement	:	*	:	:	••		•	:	o	o
Watering Station Road and Whangamarino Parish	. dai-	2 :	•			: :			0	0
Rangiriri-Cambridge (Main Road)			: :		: :		: :	:	0	350 0 0
Whangamarino District.	:		::		•	1,102 2 9	:		:	1,102 2 9
Education endowment, Kimihia-Huntly	:	: 1	:	•	•		75 0 0	0	25 0 0	100 0
Churchill Punt	:		:		:	150 5 2	:	υ,	:	
Gibbons Creek Bridge (Hamilton)	:		:	•	:	0	:	0	:	_
Matahura	:	*	:	:	••		:)	:	- - -
Rangiriri Lake, Matahura Road	:		:	<u>:</u>	:	0	:	0	:	- -
Rangiriri Lake to Railway-station	:		:	:	:	0	:	0	•	- -
Vairangi Railway-station	:	*	:	:		0	:	> 0	:	-
Wairangi Railway-station and Matahura	:	*	:	:	:		:	-	:	-
Walkare Lake to Onewhero	:	*	:	:	: .	0 0 00%	: 00		<	0 0 008
Churchill Funt, on Waikato	:	*	:	<u>-</u>	"			> <	0 0 007	200 0
Whangamarino Falish	:	•	:	:	•••	-	:		•	80
Panniri Block	: :	. :	: :				330 0 0	20		-
Sombay-Rangiriri (Main Road)	:	Waikato and Manuk	Ianukau		: •				200 0 0	200 0
Raglan Wharf, £1 for £1	:	Raglan	:	•		242 0 0		242 0 0	:	242 0
Matakataka Cutting	:		:	•	:		100 0 0	0	:	100
Bridge over Waipa, on Raglan Main Road	:		· :	:					,	410
Onewhero (Sections 128, 129)	:	*	:	:	: .	o	6 91 00	و ده	3 16 9	
Waikato-Block XIV., Awaroa	:	*	:	:	: .	~	:	3,800 19 11	:	3,806 19 1
Lake Whangape-Block VII., Awaroa	:	*	:	:	:	2;	:	2;	:	⊇;
Whalngaro-Kahuruhuru	:	*	:		::	CT :	,	<u>ਰ</u> ਰ		eq .
Whaingare-Ngaruawahia	:	*	:	-	:	2,70	310 12 9	1 8 186	6 12 5	286
Whaingaro-Akatea-Ngaruawahia	:	*	:	:	:	5,156 12 6	ď	7.7	(21
Whaingaro-1'e Mata	:		:		:	(0 0 007)	100 0 0	0
Matawhero-Whangape	:	2	:		:		:	χο (:	x
Te Rore Bridge	:		:	:	:	o į	:	o į	:	- 1
Mata-Kauroa	:		:	:	:	100 0 001	::	150 17 1	:	202 17 1
orrangagner	:		:	_		٠.	,	>		
Carried forward	:	:			:	290,928 10 10	26,504 15 10	317,433 6 8	44,348 9 10	361,781 16 6

	j	•	County.		Elect	Electorate.	Total Net Expenditure to 31st March, 1898.	Net Expenditure during 12 Months ended 31st March, 1899.	Total Net Expenditure to 31st March, 1899.	Authorities, Contracts, &c., 31st March, 1899.	Total Net Expenditure and Liabilities.
Brought forward BOADS, BRIDGES, BTC.—continued.	ned.	Name - Bal and Control of Control	:		•		£ s. d. 290,928 10 10	£ s. d. 26,504 15 10	£ s. d. 317,433 6 8	£ s. d. 44,348 9 10	£ 8.
Whaingaro to Mangapiko, Mangapiko to Maire	o Maire	Raglan	:	:	Waikato	:			853 3 1	-	353
Huntly-Kahuruhuru Kosa Huntly Punt	: :	. :	: :	: :	2 :	: :	0 00%	O ST OCI		49 1 0	2007
Kahuruhuru Block	: :		::	: :		: :	:	::	•	300 0 0	
Oppatia Bridge and Crossing	:		:	:	*	:	2,027 5 6	1,023 19 8	3,051 5 2	176 0 4	3,227 5
Luskau-Opusha-Kamurumuru Awaroa No. 2 Block	` : : :		:	:		;	:	:	:	200 0 0	200
Awaroa, Block XI.	: :	: :	:	:	: 2	:	360 3 10			-	
Packotare Block	:		:	:		:	- 1	136	1 3 6	16	08
Ragian-Waipa	:	•	:	:	2	:	3,098 8 2	0	œς	0	3,498 8
Kagian-Kuapuke	:		:	:		:	:			190 0 0	00%
Breamen's Landing-Tuakan	: :	z :	: :	: :	. :	: :	: :	•	: :	0	2031
Main Road-Pukekawa	: :		: :	:	: :	: :	: :	: :	: :	0	100
Ngaruawahia-Huntly West	:		:	:	*.	:	:	:	;	0	007
Otorohaea Trig Road		•	:	:		:	:	;	:	0	500
Rutherford's Hill (Section 90, Block 111.)	II.), Awaroa	•	:	:		:	:	:	:	0	001
Tuakau-Kaglan	:	*	:	:	*	:	:	1. 01.04	7. 70 10 1) c	200
Tuakau Bridge (to account)	:	2	:	:	•	:	:	FR	2		000
Wattefuna Bridge Newcastle (IX X XI) Block	:	•	: ;	:	2 1	: :	: :	• •	:		008
buatia (No. 1) Block	: :		: :	: :		: :	: :	19	13	, ,	3008
Opuatia (No 2) Block	:	*	:	:		:	•	29 3 7	29 3 7	16	300
Opuatia (No. 3) Block		*	:	:	*	:	:		-	8	300
Onewhero (XII., XVI.)-Maramarua (IX., XIII.) Block	, XIII.) Bloc	•	:	:	•	:	:	:	:		001
Firongia (111., 1v., v.r., v.1f., v.111.) Block, Mawnia	lock, rawdir	*	:	:		:	:	:	:	> <	900
Kangurui (LX., A.) Block	:	•	:	:	*	:	;	:	:	0	0 006
Woine (Sections 22 to 199) Block	•	•	•	:	•	:	•	:	:	· C	
Wain Road to Blocks VII, and IX., Karioi	rioi		: :	: :		: :	: :	100 0 0	100 0 0	>	
From Main Road to West Coast	•				:			F	-	C	
Road through Block VI., Awaroa	:	•	:	:		:		∄	11	253 8 10	
Mangaokahu Block	:		:	:		:	232 12 7	•	232 12	•	232 12
Karioi-Alexandra Block	:	*	:	:	t	:	1,661.14 6		41.	:	
Karioi Parish Block	:		:	:	ŧ	:	,	25 0 0	ے <u>،</u>		
Lawson's Hill	:	2	:	:	2	:	ZI3 4 D		382 5 2	80 19 4	
Tuakau Funt	:		:	:	*	:	0,000	:	200	:	8 8
Tuakau-Opuana Aanurunuru Breemen's Landing and Mercer	: :	: :	: :	: :		: :		1 1 9	2 of coo, 1	98 18 3	102 5
		:								·	
Carried forward							000 000	77 07 112 00	01 000	0.000	000

)							
Name of Work.		County.		Elec	Electorate.	Total Net Expenditure to 31st March 1898.	Net Expenditure during 12 Months ended 31st March, 1899.	Total Net Expenditure to 31st March, 1899.	Liabilities on Authorities, Contracts, &c., 31st March, 1899.	Total Net Expenditure and Liabilities.
 inued.	:	:			:	\$ s. d. 302,328 5 8	£ s. d. 28,751 12 11	£ s. d. 331,079 18 7	£ s. d. 50,016 12 9	£ s. d. 381,096 11 4
AUGKLAND LAND DISTRICT—continued. Bregmen's Landing and Mercer Road, Waikato River Waitetuna-Aotea		Raglan Raglan and Kawhis	::	Waikato "	::	17 6 0 271 18 5	22 18 6	17 6 0 294 16 11	1	17 6 0 771 18 5
Waitetuna-Kauri Waitetuna-Whaingaro			::	. 2 3	::	100 11 2	199 7 10	299 19 0	300 0 0 100 12 2	110
Waitetuna-Whatawhata			:		:		75 3 11	d	300 0 0	300 0 0 664 16 5
Waipa Bridge (£1 for £1) (Ngaruawahia)	-		::	: :	: :	67 15 9	12	-	ကြေး	03 0
Werest Funt	. Kaglan Waina	Kaglan and Manukau Waina	: :	: :	: :	500 0 0	o 30 30 30 30 30 30 30 30 30 30 30 30 30	90 80 80 80 80 80 80 80 80 80 80 80 80 80		500 0 0
Cambridge Bridge (repairs) (£1 for £1)		::	: :	: :	: :	>	: :	ď	100 0 0	. 0
Raidge over Waikato, Hamilton	*	:	:	ì	:	12	•	27.5	:	284 12 3
To Ohanno Station	:	: :	: ;	2 1	: :	815 16 3	:	545 16 3		- و 0
Rukuhia Swamp		::	: :	: :	: :		: :	, i 1	: :	
Clark's Road	:	;	:	".	:	0		0		50 0 0
Whatawhata Swamp (drainage and road)		;	:		:	0 2	75 0 0	190 0 0	25 0 0	125 0 0
TRANSFORM WISCA (GERIN)	*	:	:	ž	:	0 87 79 0	:	9 1	:	9 5
Familton Bridge	Waine	Waina and Waikato	:		:	- C	•	<u>-</u>	:	٠_
To free Hamilton Bridge from tolls			: :		: :	0	: :	0	: :	0
Puniu Bridge	Waips	Waipa and West Taupo	:	: :	: :	:	43 1 0	43 1	19	100 0 0
To Waitomo Caves	Kawhia	:	:		:	1,390 0 10		0	0	0
Kauroa-Pakoka	:	:	:	ŧ	:	•	100 0	100 0	0 0 0 0	0 007
Wharauroa To Knifti-Otomohongo-Kihibihi	:	:	:	*	:	195 U U	:	300 0 4	>) (s
Teranamoa Improved-farm Settlement	: :	: :	: :	2 3	: :	9 C	545 1 5	4	219 18 6	2.305 0
Alexandra-Kawhia	: :	: :	:	: :	: :	Н	227 18 11	832 13	. 	1,054 14 5
Tokanui-Wharepapa	:	:	:	*	:	:				300 0
Hauturu East	:	:	:	*	:	1	495 9 0	495 9 0	4 11 0	0 200 0
Kawnia-Waipa-Alexandra-Kawnia	:	:	:	*	:	3,308 15 4	:		<	5,508 15 6
Hanturn and nart of Kinobaku Block		: ;	:		:	:	4 0 666	2 0 666		1.000
Kinohaku Block	· ·	: :	: :	* *	: :	: :	í	,	0	500 0
Puketarata Block	:	:	:	: 2	:	:	:	:	0	0
Whangaingatakapu Blocks	:	:	:	ŧ	:	:	::	:	0	0
Briscoe's Section, Awakino (road to)	:	:	:		:	:	:	:	100 0	0
Kawhia Whari	:	:	:	*	:	:	0 000			0 0 00
Alexandra to Hikurangi	::	::	:::	2 2	::	1,341 15 3	>	_	::	-
Carried forward	<u>.</u>	:			•	321,812 6 7	31,957 14 1	853,770 0 8	55,346 18 5	409,116 19 1
	-									

TABLE NO. 4—continued. STATEMENT showing the Net Expenditure on Roads, &c.—continued.

		SIAII	SIALEMENT snowing		the NET EX	EXPENDITURE	on Koads,	&c.—continued.			
Name of Work.			County.		Electorate	tte.	Total Net Expenditure to 31st March. 1898.	Net Expenditure during 12 Months ended 31st March, 1899.	Total Net Expenditure to 31st March, 1899.	Liabilities on Authorities, Contracts, &c., 31st March, 1899.	Total Net Expenditure and Liabilities.
Brought forward Roads, Bridges, erc.—continued.	inued.		:	·	;		£ s. d. 321,812 6 7	£ s. d. 31,957 14 1	£ s. d. 353,770 0 8	£ s. d. 55,346 18 5	£ s. d. 409,116 19 1
AUGKLAND LAND DISTRICT—continued. Pirongia (IV., VIII.) Block	:	Kawhia	:	:	Waikato	:	,	:			
Otoronanga-l'e Kuiti Te Kuiti-Awakino	: :	* *	::	::	end	Egmont	58 12 5 14,027 16 3	5,546 7 1	58 12 5 19.574 3 4	453 12 11	$58\ 12 5$ $20.027\ 16 3$
North End North Island Main Trunk Railway	Railway		:	::		:	,886 5			ļ	10
	:	*	:	:	:	:	780 18		8		18
Paemako (Karu-o-te-Whenua) Improved-farm Settle-	red-farm Settle-	: :	::	::	: :	::	3 =	310 1 6	374 S 10 863 13 3	25 11 2 839 9 3	1,703 2 6
ment								104 10 0		<	9
Pirongia West	: :	: :	: :	: :	: :	: ;			104 19 9	1.362 10 0	1 860 6 9
Ouruwhero N2, and Puketarata	: :	Kawhia	Kawhia and West Taupo	odn		: :	262 5 6	14	0	27 700,	000000000000000000000000000000000000000
Kihikihi-Otorohanga-Te Kuiti	:			:		:	12	13	Ç		12 1
Whatiwhatihoe Bridge	:	Kawhia	Kawhia and Waipa	:		:	:	_	14	86 5 1	0
Paemako-Ohura	: :	Kawhia	Kawhia and Clifton Diate	:	Bor of Dlowfr.	:	190 16	92 1 11			400 0
Archa Township (Included a brack	к) ::	LIMKO	:	- -	3	:	90	:	-	:	_
Te Aroba-Katikati Road	: :		: :	: :	. :	: :		: :	_	: :	50 0 0
Te Aroha Block	:	: :	:	:	: . 2:	:	Ç1	:	C 1	: :	O1
Huihuitaha to Patetere	:	•	:	:	*	:	œ	:	œ	:	8 202
Katikati-Te Aroha	:	*	:	:	*	:	1	:	Ξ,	:	# :
Te Aroha Canatorium Hot Surings and Domain	Domain	*	:.	:	*	:	770 T9 3	1 970 17 0	776 19 770 17	2007 16 7	776 19 3
Te Aroha Domain		•	: :	: :	: 3	: :	- 00	-	H 00	97	7 65
Te Aroha and Waitoa Drains	: :		: :	: :	: :	: :	375 16	: :	375 16 1	243 4 6	619 1 5
Te Aroha-Rotorua Road through Okauia Block	auia Block	•	.:	:	"	:		:			0
Cambridge-Taupo	:	*	:	:	*	:	10	:	10	•	10
Works at Le Alona Springs	:	Piako a	Piako and Tanranga	:		:	0 100 18 0	:	57 18 U	100	57 18 0
Katikati to Te Aroha (horse-track)	: :	Tauranga	,	: :	: :	: :	359 9	::	6	>	359 9 5
Paraiti Bridge	:	*	:	:	*	:	:	:		:	:
Bay of Plenty	:		:	:	•	:	9	:	91,220 6 4		91,220 6 4
Tauranga County flood-damages	:	•	:	:		:	192 11	:	Ξ,	10 0 0	\vdash
Waimapu Bridge	:	*	:	:	*	•		:	30 c	:	
raengaroa	:	2	:	:		:	0	:	2000	:	
Taurange to Te Puke and Matata	: ;		: :	: :	. :	: :		:		;	19 969 1 9
Otamarakan Bridge			: :	:	: 3	:	378 19	: :	378 19		378
Otawa Nos. 14 and 1B	::	: \$:	:	: :	:	447 7 10	: :	7 1	200 0 0	1
Pukaingataru Boad	:	*	:	:	2	:	0	:	0 0 08		
Carried forward	:		:		:		480,005 9 6	39,875 11 7	519,881 1 1	59,760 13 6	579,641 14 7
		-					-				

Name of Work.			County.	 ;	Electorate.	Total Net Expenditure to 31st March 1898.	Net Expenditure during 12 Months ended 31st March, 1899.	Total Net Expenditure to 31st March, 1899.	Liabilities on Authorities, Contracts, &c., 31st March, 1899.	Total Net Expenditure and Liabilities.
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Brought forward	:		:		:	480,005 9 6	39,875 11 7	519,881 1 1	59,760 13 6	579,641 14 7
ROADS, BRIDGES, ETC.—continued.	inued.									
AUCKLAND LIAND DISTRICTcontinued.		100000000000000000000000000000000000000			on of Dlonts	0 000	0 001	0 0 008		0 008
ryes ra	:	rantanga	;	-	Day of Fields	0 007	>	>		
AKE AKE	:	*	:	:	:	:	•	•	0	> <
Maketu warat	:	*	:	:	:	•	•	:		
Kaiti Bridge	:	>	:	:		:		:	_	
Fugnini Bridge (Tauranga-Camoriuge)	:- (-)	*	;	:	:	:	•	:	•	9
Denomina Stream Driuge	:	*	:	:			175 A G	0 01 788	<u>ب</u>	
Denomina opecial permette	:	*	:	:	, .	596 8 10	н		2	α
The supplemental transfer of the substitution of	:	*	:	:)	•	>	· C	
rapamoa 190s. 1 and 2 (auditional)	:	,E	Determine	:		101		1	2 6	
Maketu-Kotorua	:	Lauranga	•	: '		2,131 1	15	-	- L	2, (31 14 14
Tauranga-Kunanga	:	Tauranga, Kotorua,		and base	Bay of Flenty and Hawke's	1,982 4	1,821 4 4	æ		41
:		Trast Ta	odn		Day	(ď		•
Tauranga-Napier, viā Taupo	:	Tauranga,	Kotorua, and Hax		Ditto	40,541 3 0	:	40,541 3 0	••.	40,541 3 0
		Bav		2						
Opotiki-Whakatane	:	Whakatane	:	<u>e</u>	Bay of Plenty	1,099 15 8	;	1,099 15 8	:	1,099 15 8
Matata-Te Teko	:		:	:	:	150 0	100 0 0	0	100 0 0	0
Whakatane to Ohane	:		:	-:	:	250 0	:	0	:	250 0 0
Wajoeka, Blocks II., IV.	: :		: :	:		150	50 0 0	0	700 0	0
Orini Bridge. Whakatane		. :	:	:		299 5	:	299 5 0	:	299 5 0
Rebuilding, repairing, and constructing	ucting county	: \$:	;	:	:	200 0 0		•	
	•									
Opotiki-Waiotahi	:	*	:	:	:	562 10 0	•	562 10.0	:	562 10
Nukuhou-Maraetotara	:	*	:	:			:	:	500 0 0	
Galatea-Te Kapu, viâ Waikaremoana			:	:	:	1,848 3 9	•	1,848 3 9	:	1,848 3
Papamoa-Omarumutu	:		:	:		:	150 0 0	0		150 0
Whakatane roads and bridges, £1 for £1	.: ::	*	:	:	:	300		0		_
Waiotahi	:	*	:	:			150 0 0	0	350 0 0	_
Waiotahi Bridge	:		:	:	:	200	:	200 0 0		0
Opotiki-Otamamakau	:	ŧ	:	:		:	•	4	200 0 0	
Waiotahi Block	:	:	:	:	:	750 13	:	<u>ب</u>		_
Waiawa Block	:	*	•	:		200 0 0	:		200 0 0	_
Waimana Block	:	*	:	:	:	2,000 0			,	
Waimana	:	*	:	:	•	1,063 13	14 7 0	0	485 13 0	13
Te Teko-Opotiki	:		:	:		825 0		825 0	φ.	
Rangataiki-Ruatoki-Waiotahi	•	*	:	:		6,111 12 0	308 19 4	_	9	~
Galatea-Te Teko	:		:	:		:	Ĵ	159 9 7	10	7.
Otara River-Papamoa	:		:	:		:	:	:	٠,	-
Omarumutu-Te Whaiti	:		:	:	•	:	:	•		0 001
3		1				1	,	1	;	,
Carried torward	:	_	:		•	541,969 IS 0	43,815 19 0	0 81 681,686	65,733 11 6	o 6 fre, reo
		-		•	***					

Name of Work.		County.	Electorate.	Ex.	Total Net Expenditure to	Net Expenditure during	Total Net Expenditure to	Liabilities on Authorities,	Total Net Expenditure
				318	March, 1898.	31st March, 1899.	31st March, 1899.	31st March, 1899.	and Liabilities
					1	5	1	U	C.J.
Brought forward	:	•	•	54.	541,969 19 0	43,815 19 0	585,785 18 0	65,733 11 6	519
ROADS, BRIDGES, ETC.—continued	'B'	- :						•	
AUGKLAND LAND DISTRICT—continued.		V371 - 1 4	t d					Ċ	
Walkaremoana-wanganuna	;	vy nakatane	bay of Flenty	:	:	•	:	•	
Walmana-Oniwa	:		:	:	•	•	:	400 0 0	
Waweka Kiver-waiotani Block	:	:		:	:		•		
Otara Bridge	•	: "	T. E1 (A. 3 A.		:	0 0 001	100 0 0	(
Determine College Weitermann	•	Defend Weight	When the Bay of Plenty and Walapu		Ç	c	¢	100 0	100 0
rotorua-Galarea-Walkafelliozua	:		aka-	ši 	24,445 Jo 4	12,229 8 0	30,675 to 10		87,715
Sundry roads Bay of Plenty		Tanranga and Whakatane	one Ban of Diante	1	10 517 10 K		א, 10 אוס זי	0 00	01 212 01
The Kimi	:	Whatatana and Waian		: :	2	:	7	>	
Rotorua-Rotomahana	: :	Rotorus.	,,	:		•	906 17 0	•	71 906
Morea Bridge	: :		s	•	13	7 9 7	<u> 7</u>	899 17 5	
Rotoiti-Tiketere			: :	: :	87 16 0	١		-	
Pongakawa-Rotorua and Rotorua Road	:			:		72 2 4		127 17 8	
Taupo	;	:	:	:	17	:	17	:	9,336 17
Works at Rotorua	:	:	:	:	-	5,567 6 7	17	2,167 9 3	15,343 7
Mamaku-Rotorua-Oxford	•			:	181 3 0	:	181 3 0		
Okohiriki Block	:		:	:	:	•	:		
Kaikokupu Block	:	Rotorua and Tauranga	:	:	(,		0 (_
Totorus Warlos	:	rotorua	:	:	231 0 4	8/ 16 9	-	212 3 3	531
Rotour Whorf	•		"	:	,		1, 162 57 77		
Rotorns Water supply	:	:	:	:	א מ	o -		4	6/3
Rotorna-Noncotaha Mount	:	:		:	215	24 12 2	2 5	1 F	243 443 747
Mamaku Block				: :	>	1	7	- c	0 00%
Rotoiti-Tarawera, vid Okaitaina	:		:	:	721 10 5	47 7 4	768 17 9	12	
Umurua Block	:	:		:	:	:		0	
Rotorua-Te Teko	:	:	:	;	9,838 12 1	320 11 1	10,159 3 2	1,477 3 11	11,636 7
Ngengotaha-Bishop's Section	:	:	:	:	:			63	
Waiotapu Springs (improvements)	:			:	1	,		0	
Orcherili 1r	:	:		:	OT CT 110	0 EL 101	24.0 Sept. 19. 19. 19. 19. 19. 19. 19. 19. 19. 19	٥	_
Arahiwi and Mamaku Railway station	•			:	0 24.	01 21 071	01 21 771	0 0 006	800
Tanmata Block	: :	•		:	5	3	7	0	
Taumata Nos. 14, 24, 3B. east: 3B west: Nos. 1.	Nos. 1, 3c			: :	317 16 0	•	317 16 0		200
east A; 3c west No. 1				•	ì	•	}	1	
Oxford-Rotorua		Rotorua and Piako	:		20.901 2 1	244 9 0	21.145 11 1	346 11 0	91,499, 9
G-1-4: Directly-robotica main robu	_		ŧ			,		Ö	
Galatea-funcki Rotowhero, viá Wajotapu-Wajrakej	: :	Rotorua and East Taupo		: :	8,140 5 10	436 19 3	8.577.5	100 0 0	100 0
									- 1
Carried forward	:		:	637	637,418 11 6	63,792 11 5	701,211 2 11	77,665 4 5	778,876 7
				_	_		_	_	

TABLE No. 4—continued.

	&c.—continued.
	ROADS,
	on
1	EXPENDITURE ON ROADS,
ב כ נ	NET
	ing the
	show
	STATEMENT

			•			Expenditure to 31st March, 1898.	during 12 Months ended 31st March, 1899.	Expenditure to 31st March, 1899.	Authorities, Contracts, &c., 31st March, 1899.	Expenditure and Liabilities.
Brought forward Roads, Bridges, etc.—continued	· · · · · · · · · · · · · · · · · · ·			:		£ s. d. 687,418 11 6	£ 8. d. 63,792 11 5	£ s. d. 701,211 2 11	£ s. d. 77,665 4 5	£ s. d. 778,876 7 4
AUCKLAND LAND DISTRICT—continued. Wharepuhunga No. 1	:	Taupo West	:	Bay of Plenty	:	254 11 10		Ħ	745 8 2	0
Kihikihi-Waotu	:	Tours Tout	:		:	714 19 &	49 19 6	49 19 6 714 13 6	0	200 0 0
Baths and water supply, Tokaanu	: :	asper odner	: :		::	9	::	3	200 0 0	0
Wharf, Tokaanu	:	: :	:	: :	:	2 7	:	2 4	0	302 7
Waiotapu-Galatea	:	:	:		:	8	:	4,300 19 10	:	300 19 1
Huka Falls to Pukatarata	:		:		:	1,800 1 5	0 11 010	1,800 1 5		- د
Ateamuri-Orakei-Morako Otarewa-Wainana Stream (Bohinson's Boad)	Road)	¥ :	: :		: :		1	1	300	
Waibi-Tokaanu	(mm)	: :	: :	: :	: :	: :	172 0 10	172 0 10	13	0
Whakatane Wharf (repairs)	:	: 2	:	: :	:				200	0
Waikato Bridge (Waiotapu) (to account)	: : :	ŧ	:		:		817 0 10	0	13	
Track to Orakei-Korako	:	*	:	*	:			۳ بو چ	2 91 99	מי
Waitapa to Taupo	:	•	:	. "	:	5 10 0	•	o or c	0 001	0 07 001
rannara mondian Tanna Damain	:		:	*	:			150 0		
Take Dolland to Tours	: :	*	: :		:) (r	205 16 7	0	o. 00	or.
Sauro, viá Rotoaira and Murimotu to West Coast	West Coast	Wanganui a	Wanganui and West Taupo	: :	: :	12,601 17 9	2	601)	12,601 17 9
Roads and bridges in Native district	:		:			326 5	:	5	:	ro
Sundry roads and bridges, Auckland	:		:	:			:	10,824 6 7	:	10,824 6
Purchase of roads	:		:	:		(:		:	
Furenase of roads to Crown lands	:		:	:		11 486 8 3	:	11 486 8 3	•	ο α
Native districts Village settlements (see also "General")	:::		::	: :		194 0	Cr. 7 9 4	186 11	375 9 4	562
Roads, bridges, and wharves, North of Auckland Miscellaneous, and engineering	Áuckland		::	::		229,671 15 9 14,041 8 7	936 16 8	229,671 15 9 14,978 5 3	204 4 8	229,671 15 9 15,182 9 11
Total, Auckland Land District	:		:	:	_!	926,185 4 5	66,733 14 4	992,918 18 9	82,277 4 5	1,075,196 3 2
HAWKE'S BAY LAND DISTRICT-					<u>.</u>					
Waiapu County	:	Waiapu	:	. Waiapu	:		•		(400
Opotiki-East Caps	:	*	:	:	:	0	200 0 0	0	0 0 008	
Awanui-Hicks Bay	:	2	:	:	:		:	315 2 900 000 000 000 000 000 000 000 000 0	•	812
Awanul-Tikiteke	:	2	:	:	:	:	-	>	0 0 006	
Make Valley Waismatatini to Hicks Bav	: :			2 1	: ;	313 0 9	: :	313 0 9)	
Kawakawa-Hick's Bav	: :	: :				>	: :		150 0 0	
Waipiro Hot Springs-Tologa Bay	:	: 2	:	:	:	:	:	•	0.	200 0
Waipiro Hot Springs-Tokomaru	:	*	:	:	:	:	:	:	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
Waipiro-Mata	:		:	:	:	•	:	:	٥	900 0
Carried forward	:			:		1,525 3 6	500 0 0	2,025 3 6	1,650 0 0	3,675 3

TABLE NO. 4—continued. STATEMENT showing the Net Expenditure on Roads, &c.—continued.

		111111111111111111111111111111111111111	7	9	יייייייייייייייייייייייייייייייייייייי	TAL BILL DIT ONE	OH THOUSE, WC.	·—commanno			
Name of Work.			County.		Elect	Electorate.	Total Net Expenditure to 31st March, 1898.	Net Expenditure during 12 Months ended 31st March, 1899.	Total Net Expenditure to 31st March, 1899.	Liabilities on Authorities, Contracts, &c., 31st March, 1899.	Total Net Expenditure and Liabilities.
Braijoht forward	-					÷	£ S. d.	8. S. d.	3. d.	£ 8. d.	£ S. d.
Boads, Bridges, etc.—continued, HAWKE'S BAY LAND DISTRICT—continued			•		•		9	>	3	999,	5
Tokomaru-Huiarua	:	Waiapu	;	:	Waiapu	:	200 0 0	:	200 0 0	:	
Tauwhareparae-Tokomaru	:	ŧ	:	:		:	:	:	:	150 0 0	0
Whareponga-Reporta	: :	: :	: :	: :	2 :	: :	: :	300 0 0	300 0 0	>	0 0 008
Pukeamaru	:	: :	: :	: :		: :	: :	>	,		0
Waipiro-Te Puia-Hikiwai	:	*	:	:	: 2	:	:	:		0	
Whakaanglangi Waihuka	:		:	:	2	:	4 7	:	4 4	250 0 0	250 0 0
Ahomatariki	:	: :	:	•		:		•		> <	950 4 0
Hikurangi Block	: :	: :	: :	: :		: :	13	0 5 0	496 4 5	15	520 0
Waiapu Inland Road	:	Waiapu and Cook	nd Cook	:		:	100 0		100 0	0	400
Ormond-Waiapu	:			:	ž	:		•		•	
Vimond - Walapu	:	Ŋ		:	*	: :	2	:	13	•	-
Walliags writing	:-		,,	:	*	: :	>	:	>	•	0 000
Gisborne wie Tolaga Day Awahui Gisborne wie Tolaga Hicks Bay				;	. *	:	999 11 9	200 0 0	1,199 11 9	0 0 009	1,799 11 9
Gisborne-Tolaga-Tauwhareparae	`:	Cook	:	:		:		:	0	•	300 0 0
Tolaga-Marunga-Tauwhareparae	:	Ł	:	:	*	· :	_	:	7		-
Waimata-Tauwhareparae	:		:	:	*	:	200 0 0	:	200 0 0	0.0	
Walkohu-Matawal and Motu Block Tanwharanara-Arikihi	:	2	;	:	2	: :	500 0 0	:	200 0 0	200,7	000,7
Huirarua Block	: :		: :	: :		: :)	: :)	0	500 0 0
Poverty Bay	:		:	:	*	•	21,499 5 4	:	21,499 5 4	:	1
Tolaga-Mangatekorau	:	*	:	:		:	358 19	:	<u>5</u>	:	
Funaktiere Block Tologa-Arikihi	: :		: :	:	2 :			• •	3.016 6 11	231 0 0	3,247 6 11
Waipoa Road to Oil Springs	: :		: :	: :		: :		::	0	•	
Tauwharetoi Block	:		:	:	*	:	1,169 7 2	:	1,169 7 2	:	1,169 7 2
Walkohu	:		:	:	Ł	:	1,303 10 9	1,192 19 1	2,496 9 10	557 0 11	3,053 10 9
Motu Bridge and Road	: :		: :	: :	. .	: :	733 16 6		16	:	733 16 6
Tatapouri Hill	:	*	:	:		:	:	300 0 0	300 0	:	0
Walkohu Bridge (£1 for £2)	:	*	:	:		:	1,000 0	•	1,000 0 0		1,000 0 0
Pustal Hill	: :	: :	: :	: :	. :	: :	•		.	0	300 008
Te Arai	:	: :	:	:	East Maori	:	:	:	:	150 0 0	0
account)	:		:	:	Wajann	:	:	:	:	-	
Tologa Hill	: :	: :	::	::	ndina.	::		: :		0	0
Carried forward	:		:		•		51,426 11 11	2,493 4 1	53,919 16 0	9,844 16 6	63,764 12 6
				-							

TABLE NO. 4—continued. STATEMENT showing the Net Expenditure on Roads, &c.—continued.

Name of Work				•							
	ork.		County		Elec	Electorate.	Total Net Expenditure to 31st March, 1898.	Net Expenditure during 12 Months ended 31st March, 1899.	Total Net Expenditure to 31st March, 1899.	Liabilities on Authorities, Contracts, &c., 31st March, 1899.	Total Net Expenditure and Liabilities.
							. S. G.	ક. ક. તે.	વ્ય	ಚಿ	33 33
Brought forward ROADS, BRIDGES, ETCcontinued.	continued.	:	:	:		:	Ħ	4	9 16	9,844 16 6	63,764 12
Wainui	-continued.	:	Cook	:	Waiapu	:	:	::	•		
Waimata Bridge (Ackroyd's)	:	:	:	:	• *	•	:	:	:	0	
lurehau Bridge	::	:	:	:		:		:	:	300 0 0	0 008
Waimoko Bridge	:	:	:	:		:	:	•			
Waimata Riding	::	:	:	:	Ł	:	830	:	0		
Fouswa Road Board	• :•	:		:	•	:	130	(130 0 0	:	
Gisborne-Walmata (metalling	:	:	:	•		:	420 0	0 0 672	0 0	:	28
soorne-waimata	• ;	:	:	;		:		•		(4,250 9
nangaroa-Tiniroto	:	:	:	:	2	:	:	:	:	200 0 0	
Te reings rais bridge	::	:	:	:		:	(:	(
Whataupoko Koad Board	: ;	:,	:	:			120 0 0	:	0 0 07 7	:	025
Cook County (nood-asmages)	::	:	•	:	2	:		:		•	21,080,1
Motor Bond midner	:	:	:	:	. "	:	040	KEO 10 11		300 0 0	
Gishomo Dotoura Ctool.	:	:	Construction of talks from the	:		ا :	- L		200	0	
Opotiki-Ormond		:	Cook and whaka	alle	watapu കഥവ	Day of		ກ		2	18 149 6
Gisborne-Opotiki	• :	:	*	:	.		633 15	598 10 0	23.5	951 10 0	1
Ormond-Opotiki, and branch roads	roads	: :		: :		* :	122	3	12	2	
Gisborne-Opotiki	: :		; ;			*	578 4	: :	578 4	: ;	
Gisborne-Wairoa	: :	: :	Cook and Wairon	•	Wajapu	: :	. L-		-	• •	
Wairoa-Gisborne	:	: :	*	:	1 2	:	C	309 15 0	0 008	'n	1,490 5
Nubaka-Gisborne	::	:	z	:	*	:		1,263 9 3	563 9		
Nuhaka No. 1	:	:	=	:		:		9	9	13	
Muriwai-Mahia	:	:		:		:	374 15 0	125 5	200	15	799 15
Gisborne-Waikaremoana	:	:	*	;	Ł	:	က		14		-
Kuakituri Block	:	:	Wairoa	:	٤.	:			12	4	
Opoiti Bridge (to account)		:	:	:	*	:		1,500 0 0	0	:	
Opoiti Bridge	•	:	:	:		:	0	:	0	:	
Onuka-Waikaremoana	:	:	:	:	2	:	0	:	0		
Frasertown-Waikaremoana		:	:	:	*	:		:	0	200 0 0	
Walroa and Walkaremoana (bridle-track through the	ridle-track throu	igh the	•	:	•	:	544 18 6	:	544 18 6	:	544 18
walad District to Foverty Bay)	say)						. (,		
Inunaka Markaka Diadawa	:	:	:	:	•	:	743 12 6	:	743 12 6	:	21 24/
Munaka, block No. 2	:	:	:	:		:	0		ې د	(
Nunaka Springs	:	:	:	:	2	:	0 0 0 0 0 0 0 0	01 II c	Ξ,	494 8 2	
Nunaka block	:	:	:	:		:	ו כת		က I	:	
Kotokakaranga	:	:	:	:		:	<u>-</u>		<u>:-</u>		1,769 7
Waiau Block	:	:	:	:		:	400 0 0	•	400 0 0	300 0 0	
Carried forward	:	:	:			•	106,710 15 4	14,130 15 9	120,841 11 1	16,761 10 8	137,603 1

TABLE NO. 4—continued. STATEMENT showing the Net Expenditure on Roads, &c.—continued.

September Properties Prop				,						
### But forward ### Decay Enc.—continued. #### Decay Enc.—continued. #### Decay Enc.—continued. ##### Decay Enc.—continued. ##### Decay Enc. ###### Decay Enc. ###################################	Name of Work.		County.		Electorate.	Total Net Expenditure to 31st March, 1898.	Net Expenditure during 12 Months ended 31st March, 1899.	Total Net Expenditure to 31st March, 1899.	Liabilities on Authorities, Contracts, &c., 31st March, 1899.	Total Net Expenditure and Liabilities.
Hawke's Bay and Waiapu 1,512 7 8 800 0 0 10 10 10 10 10	Brought forward ROADS, BRIDGES, ETC.—continued.	•	:		:	15. s.	£ s. d. 14,130 15 9	£ s. d. 120,841 11 1	£ s. d. 16,761 10 8	£ s. d. 137,603 1 9
Hawke's Bay	AWKE'S BAY LAND DISTRICT—continued.	I VAT a image	-	<u> </u>	minology Born and Wolcom	1				
### factoring to the continuency of the continuency	Weine County needs (flood demonstrated)	· · v ailoa	:	Ξ :	ware a Day and watapu	- =	•	1,012 .	:	1,012 7
Hawke's Bay 1725 0 0	Wallow County Lowe (11004-unitages) Bridge over Mohebe	:	:	:	2	> <	•	> <	:	
18 18 18 18 18 18 18 18	Names of the Waires At to A1	:	:	: :	wko'e Bay	0	:		:	
is and a model of the control of the	Marion to Mainon, at wo at	:	:	: :	THE COLOR STATE	047	K K76 0 11	2 6		9 5
Motaka Motaka Motaka Motaka Maricos and Hawke's Bay Wainpu Hawke's Bay Maricos Hawke's Bay Maricos Motaka Hawke's Bay Maricos Hawke's Bay Maricos Maricos Hawke's Bay Maricos Maricos Maricos Maricos Hawke's Bay Maricos Maric	Maple to waite.	:		:	:	90V 40	0	01 00		•
Andraka	Modaka southwards		•	:	:	23	:	F.	•	320 19
Mairos and Hawke's Bay Waispu 1,833 1 4 1,6 1,6	MONGAKA AND WAITAR	:	:	:	:	0	:	٥	•	
Maignest 1,65 1,6	Upper and Lower Monaka		:	:	:	:	:	:	0 0 001	
bridges, Hawke's Bay Hawke's B	Makaroro Bridge and approaches	:	;	:	:		:	•	0	
bridges, Hawke's Bay Warroa and Hawke's Bay Warroa and Hawke's Bay Warroa and Hawke's Bay Hawke's Bay Hawke's Bay 528 0 0 trict Warroa Warroa Bay 1,650 0 0 trict Warroa Bay Hawke's Bay and Waiapu 550 0 0 Table Bay Hawke's Bay and Waiapu 550 0 0 Bangitikei Hawke's Bay and Waiapu 5,000 0 0 Hawke's Bay Waipawa Waipawa Waipawa Waipawa Waipawa 1,932 15 2 wa Bay Wairoa Wairoa Wairoa 1,632 6 3 4 4551 110 Abakeuku Rivers, Ormondville 450 0 0 wa kairoa Waikopiro 4561 110 Waikopiro	Waitara Block	:		:	:	0	•	781 0		781
bridges, Hawke's Bay Hawke's Bay	Runanga-Pohui	Wairoa	awke's	Δ	:	-	1,631 18 4	19	2,263 15 1	
trict tr	Sundry roads and bridges, Hawke's Bay	Hawke	's Bay	HE	's Bay	10	:	_	:	419 10
triot Executed by the control of the	Pohui Block	-	:	:	:	0	:	0	:	538 0
Roads 1,047 6 0 1,047 6 0 1,047 6 0 1,047 6 0 1,047 6 0 1,047 6 0 1,047 6 0 1,047 6 0 1,047 6 0 1,047 6 0 1,047 6 0 1,047 6 0 1,047 6 0 1,047 6 0 1,047 6 0 1,047 6 0 1,047 6 0 1,047 6 1,	Puketitiri Block	:	:	:	:	0	:	520 0 0		520 0
triet Foads	Puketitiri	:	:	•	:	:	:	:	250 0 0	250 0
Hawke's Bay and Waiapu	Roads, Napier District	•	:	:	:	19	:	189 19	•	-
Hawke's Bay and Waiken 1,000 1,0	Napier-Murimotu Roads	:	:	:	:	9	•		:	047
works may ke's Bay and Waiapu 5,000 0 0 nd-Patea Rangtitkei 5,000 0 0 nd Patangata Hawke's Bay 324 1 1 proach Waipawa Waipawa 1,992 15 2 wa " 2,47 1 4 1 1 4 wa " " 1,992 15 2 1 <td< td=""><td>Bridge over Ahuriri Harbour</td><td>•</td><td>:</td><td>:</td><td>:</td><td>16</td><td>:</td><td>625 16 1</td><td></td><td>_</td></td<>	Bridge over Ahuriri Harbour	•	:	:	:	16	:	625 16 1		_
account) account) account) account) account) and Baridge and Bridge and Bridge by Patea, and F,000 0 0 Bangitikei Hawke's Bay account) and Bridge by Patea, and F,000 0 0 Bangitikei Bawke's Bay account Bawke's Bay Bay Ba	Meanee protective works		:	:		0	•	0	: :	
nd-Patea " Hawke's Bay. Patea, and Examinated Bay. Patea, and Bangitiked 5,000 0 0 0 0 end Bridge " Hawke's Bay " 1 proach) " 1,992 15 2 2 wa " 1,992 15 2 1 Hawke's Bay " 457 16 1 1 Lin full " 1,992 15 2 1 Lin for £1 " 252 16 5 1 Lin for £1 " 454 16 1 1 Lin full " 352 17 6 1 1 Lich full " 352 17 6 1 1 Lich full " 352 16 6 3 4 Lich full " 352 17 6 6 3 1 Lich full " 352 17 6 6 3 1 Lich full " " 352 17 6 6 3 1 Lich full " " " 450 0 0 0 Copiro " " " 500 0 0 0 Walkopiro " " " 350 0 0 0 Lich full " "	Mohaka Bridge (to account)		:	H	wke's Bay and Waiapu		45 10 0	-	6.444 10 0	
Patangata Pawke's Bay Pawke'	Kuripananga-Injand-Pates.		: :	H	wke's Bay. Pates, and	С		c)	5,000
nd Bridge Walpawa Walkorsh Walkopiro			•	:	kei	>	•	•	•	200.5
und Bridge Waipawa proach proach proach proach swa swa swa <	Elsthorne Roads	Patang	ata	Hg	wke's Bay	:	:	•	0	250 0
proach)	Whakarara Road and Bridge	Waipay	Va	:	upawa	:	:	:		150 0
proach)	Whakarara Block	:	:	:	:	:			38 0 0	0 88
324 1 1 1 497 13 10	Ruahine Block (approach)	:	:	:	:		447 13 2	13		700
waa	Ruahine		:	:	:	_		-	0	574 1 1
wa 1,992 15 2 Wake's Bay	Ruahine Block	:	:	:	:	13	2 6 10	0	15 18 3	18
Hawke's Bay	Makaretu	:	:	:	:	12	:	15	:	15
Hawke's Bay , , , , , , , , , , , , , , ,	Tukituki to Waipawa		:	:	:	-		-	:	
ktotuku Rivers, Ormondville " "	Norsewood-Apiti-Hawke's Bay	:	:	:	:	16	12	00	238 7 2	804 16
akctuku Rivers, Ormondville 4.50 0 0 ed-farm Settlement 4,581 1 10 1, copiro 136 13 9 .	Takapau-Kopua, £1 for £1		:	:		17	147 2 6	0		200
ed-farm Settlement 1,622 6 3 1,0 1,000 0 4,581 1 10 1,000 0	Manawatu and Makotuku Rivers, Ormondville		:	:		0		0		
opiro 4,581 1 10 1,	Waikopiro Improved-farm Settlement	:	:	:	:	622 6	441 13 6	063 19	9	625
opiro	Waikopiro		:	:		581		9		•
Waikopiro 500 0 0	Ormondville-Waikoniro		;			136 13	cc	670 16	17	036 13
500 0 0	Manawatu Bridge. Waikoniro	: :	: :	: :		}	610 10 4	10	8 6 688	٠.
434 8	Manawatu Bridge					C	;)	500
	Te Ohu	: :	: :	: :		00			:	434 8 10
						,		,		
Carried forward 169,901 2 6 24,66	Carried forward		:		•	C 7	24,685 19 11	194,587 2 5	30.045 0 11	224.632 3

		_		-						
Name of Work.	,		County.		Electorate.	Total Net Expenditure to 31st March, 1898.	Net Expenditure during 12 Months ended 31st March, 1899.	Total Net Expenditure to 31st March, 1899.	Liabilities on Authorities, Contracts, &c., 31st March, 1899.	Total Net Expenditure and Liabilities.
Brought forward Roads, Banges, Brocontinued.	:		:			£ s. d. 169,901 2 6	£ s. d. 24,685 19 11	£ s. d. 194,587 2 5	£ s. d. 30,045 0 11	£ 8.
Liberal Block	:	Waipawa	:	. Waipawa	:	400 0 0	,	400 0 0	:	400 0
Dannevirke-Tiratu	:	, :	:	. *	:	;	6 01 929	2;	:	626
Umutaoroa Block	:	•	:	•	:	2,088 15 4	:	12		2,088 15
	:	*	:		:		:		7	
Dannevirke-Tamaki	:	\$:		:	:	:	:	0 0 001	96
Holder's	:	2	:		:	:	:	•	>	
Ngapaeruru Abutusang Block	:	*	:	· Weinewe	Wainawa and Pahiatua	288 7	•	7	•	1.883 7
Andruga Dictairt Normalia and Mahamban			:	· waitawa	and ranialda	- 2	•	9 709 16 6	•	2,709 16
Norsewood District, ingamoko, and inadara. Deswai Rood Taborsita	IIST IST	*	:	. Pahiatua				90	: :	
Down Inval, rattorated	:		:	· r arrange	:	0	:	· C	•	250 0
Total Inday, tailorable Vistonia and Buch wills Cottloment	:		•		:	0	:	0	•	
Victorial and Dubit-Mills Dovicial	:	2	:		:	-	195 18 9	· C		574 1
Onorse	:	*	:		:	4 65		9	85 13 5	730
Moharahara Block	:	*	:	•	:	ç)	12	·	1,938 12
Woodwille Block II	•	•	•	•		i c.		c.		
Holder's Boads	: :	: :	: :		: :	300 008	: :	300 0 00	: :	0
Woodville Block	:	. :	•		: :	6		6	:	26 9 10
Tautane and Tahoraite	: ~	* .		*	1 D-1-1) t		Ŀ		00 888 7 11
Tautane and Weber Road	<u>.</u>	waipawa a	waipawa and Fatangata.	. матрама	waipawa and Faniatua	II / oee'nz	:	-		-
Ngapaeruru Block	•			. Waipawa	:		2,901 5 6		348 14 6	
Tools, &c	:		:		:		:	15	,	248 15
Miscellaneous, and engineering	:		:		:		•	1,851 11 8	200 0 0	Z,U51 1I
Totals, Hawke's Bay Land District	istrict		:		:	203,625 16 1	28,952 15 3	232,578 11 4	31,125 3 0	263,703 14
Taranaki Land District—				Water						
Tawai Improved farm Settlement	:	Kawhia	:	. Egmont	;	774 8 1	2 9 89	842 14 8	157 13 5	1,000 8
Mokau Punt	:	Clitton	:		:		:	9		
Tauranga No. 1 and C	:	•	:		:	c		7	> <u>*</u>	1,000 0
Greenlands Improved tarm Settlement	:	*	:	:	:	,	2. 4 4 2	# 7		n C
Monakatino Bridge	:	:	:		:	1,421 14 0	. 0		0	2, 200 C
rongaporutu miproveu-tarm Sebutement	:		:		:	10		1 C	9	959
Tougaporutu retry Trusti Improved-farm Settlement	:	*	•	:	:	718 18 10	7 18 4	791 19 9	252 1 8	Н
Pukearuhe and Mokan	: -	*	:		•	1)	ļ	1	
Pukearuhe inland-Mohakatino		*	:	:	:	11,556 5 5	2,799 0 0	14,355 5 5	201 0 0	14,556 5
Pukearuhe inland	_					ļ		ļ		
Mohakatino-Parininihi No. 14	:	:	:	:	:	3,864 17 10	•	3,864 17 10	•	3,864 17
Carried forward	:	-			•	20,910 19 8	3,345 9 5	24,256 9 1	2,428 16 2	26,685 5
						_	_	-		

TABLE NO. 4—continued. STATEMENT showing the Net Expenditure on Roads, &c.—continued.

			2	ama Siliwo	TA ET	LAPENDITORE	OIL LVOADS, &C.	continued.				1
Name of Work.			County.		Electorate.		Total Net Expenditure to 31st March, 1898.	Net Expenditure during 12 Months ended 31st March, 1899.	Total Net Expenditure to 31st March, 1899.	Liabilities on Authorities, Contracts, &c., 31st March, 1899.	Total Net Expenditure and Liabilities.	
Brought forward ROADS, BRIDGES, ETC.—continued.	:		:	- <u> </u>	÷		£ s. d. 20,910 19 8	£ s. d. 3,345 9 5	£ s. d. 24,256 9 1	£ s. d. 2,428 16 2	£ s. d. 26,685 5 3	:
Aranaki Land District—continued. Mimi-Mangarca (road metalling), £1 for £1	:	Clifton	:	Egmont	ont	•	0 -		400 0	750 0 0	0 +	
Okau improved-tarm Settlement Putiki	: :		: :	::	::	: :	1,716 1 3 306 3 5	30 18 U	1,746 19 3 736 12 0	-	2,001 1 3 1,006 3 5	
Derwent Improved-farm Settlement	::	: :	: :	::	::	: :	4	15	10		0	
Ohura South K No. 5 and L Rurfoot Improved farm Settlement	:	z	:	:	:	:	500 0 0		500 0 0	180 4 9	500 0 0 473 6 6	
Lepperton Block	: :	: :	: :	: :	: :	: :	19	67 0 5	10	H	0	
Ratatomokia Improved-farm Settlement	:	: 2	:	:	:	:	ဏ	16	19	134 3 10	C)	
Moanatairi Block Mongetome Improved form Sottlement	:		:	:	:	:	:	•	:			
Moanatairi Special Settlement	: :		· ;	: :	: :	: :	141 19 1	52 4 7	194 3 8	207 15 5	6.	_
Ureti Township site	: :					: :	ì	!	, ·	11	106 11 6	
Maraekowhai (Ohura Road)	:	z	:		:	:	3,416 19 11	:	3,416 19 11		19 1	- ,
Kaipikari deviation	:	ž	:	:	:	:	:	:	:	0	250 0 0	
Mobi Tunotion Blook II Ilmon Weitan	:	·	:	:	:	:	:	:	:	0 0 0	0 0 001	٠.
Ngatoto	: :		: :	:::	: :	: :	::	: :			100 0	
Tongaporutu Bridge (to account)	:		;	:	:	:	:	:	:	0	250 0 0	_
Kaipikari Block	:		:	:	:	:	:		. (0 ;	300 0 0	<u> </u>
Mokau Road	:	*	:	:	:	:	100	2 808 808		90 11 9	0 0 000	_ ^
Upper Waitara Block (Uruti Road)	::	2 :	: :		: :	: :	0	•		>	0 0 080	<u>ئے</u> ک
Okoke Road	:		:	:		:			500 0 0	0	000	
Okoke Block	:	2	:	•	:	:	1,540 13 0	0 6 6		_	,	_
Walkiekie Block	:	*	:	:	:	:		•		 •	150 0 0 709 9 9	_ ~
Junction Road-Purangi, £1 for £1	::	: :	: :	: :	: :	: :	5,308 2 5	: :	01	671 16 10	П	٠.
Junction Road (widening)	:	ŧ	:	:	:	:	(0	300		0	<u></u>
Upper Waitara-Mangaere Bridge over Durangi (to account)	:	"	:	:	:	:	1,442 18 6	44 7 0 888 7 10	1,487 5 6	8 13 5	1,495 18 11	
Bridge over Purangi	: :	. :	: :	: :	: :	: :	100	-		77	7	ے ن
Roads east of Waitara	:	: 2	:	:	•	:	16	•	16	:	16	-
Ngatimaru Block	:	2	•	:	:	:	0	,	0		0	<u> </u>
Milsom Block	:		:	:	:	:	1 750 0 0	150 0 00	1 750 0 0.	•	1 750 0 0	ے ہے
Milsom and Tanner	: :		: :	: :	: :	: :	· :	215 9 7	ာ	14 10 5	230	_
Autawa and Pita Roads	:	: *	•	:	:	:	498 5 0		5		ī.	_
Oxford Association Block Weiters Birer (to account) 21 for £1	:	*	:		Terenshi and Eamont	:	n .	333 6 6	1,146 10 3	23 0	1,200 0 0	
Watter author (to account), 21 101 21	:			2	merr enn rem	:	•	•		>	>	- ·
Carried forward	:	.i .j	•	- - - -	:	1	53,494 2 10	7,305 15 9	60,799 18 7	10,159 9 10	70,959 8 5	10
												,

Name of Work.		County.	=-tou	Electorate.		Total Net Expenditure to 31st March. 1898.	Net Expenditure during 12 Months ended 31st March, 1899.	Total Net Expenditure to 31st March, 1899.	Authorities, Contracts, &c., 31st March, 1899.	Total Net Expenditure and Liabilities.
Brought forward Roads, Bridges, Erc.—continued.	:	: : ·	<u> </u>	:		£ s. d. 53,494 2 10	£ s. d. 7,305 15 9	£ s. d. 60,799 18 7	£ s. d. 10,159 9 10	£ s. 70,959 8
Taranaki—continued. Inglewood-White Cliffs	Cliff	Clifton and Taranaki	.:	Egmont	:	0	•	0	•	5,000 0
Inglewood-Ngatimaru	:		:		:		•	368 3 1	:	368
Junction Foad, Irom Inglewood eastwards Waitara Bridge (Tarafa Bridge)	: :	٤ :	: :	: ;	: :		: :	968 18	: :	968 18
Likorangi Bridge, £1 for £1	::			Taranaki and Egmont	: :	'n	::	5	: :	
Tikorangi Bridge	:	Monomolti,	:		:	4	:		:	
role (Section 23, Dioce 17.; Multiday Dioce nelewood-Waitara		··· Iwana	: :	: :	: :	749 1		Н	: :	2,749 1
New Plymouth inland	:	: :	:	::	:		•		:	
Henwood and Upland Roads	:		:	:	:	12	•	15	:	993 12
Bridge on Stony River and approaches	:	:	:	aranaki	:	1,151 6 2	:	1,151 6 2	:	1,151
Egmont Block		:	:		:	303 1 7	5 19 4	309 0 11	111 19 1	421 0
Exemple 1 Seed	- :		:	:	-:	185 15 6	•	185 15 6	:	
Egmont District	:	: :	-:		:		:	12	:	
Alfred Road	:	:	:	:	:	201 19 10	:	201 19 10	:	201 19
Patua (Egmont V., VII., XI.) Block		•	:	:	:	430 17 4	1,025 7 9	1,456 5 1	43 14 11	1,500 0
Patua (Egmoni) Block	_	•		ı				œ		94 8
Tariki Boad	: :	:	: :		; ;	-	: :			
Huiroa Block Bridge over Manganui River	: :	: :	: :	::	: :	781	: :		::	
fronsand Block	:′	:	:	:	:	514 0 2	•	514 0 2	:	514 0
Opening of Hulroa Block		:	:	:	:	2,067 17 10	:	2,067 17 10	:	2,067 17
Kent Road	<u>:</u>		:	:	:	•	;	:	0	150 0
Koru-New Plymouth, £1 for £1	:	:	:	:	:	:	:	:	300 0 0	300
Maude Road	:	:	:	:	:	:	:	:	0	
Newall and Tohn Roads	:	:	:	:	:	•	:	<		0 091
Motukawa	:	:	:		:	0 0 00	:	100 0 001	•	0 001
IN BWELL INDEED.	;	:	:	:	:	> =	:	9	_	_
mont (metalling) 21 for 21	:		:	Paranaki and Eqmont	:	2	•	7	400 0	
Opunake Wharf. £1 for £1	: :	: :	: :	Hawera	: :	1.131 14 0	: :	1,131 14 0	>	-
Kohuratahi Improved farm Settlement	Stra	Stratford	:	:	:	19		19		
Kohuratahi-Tangarakau	:	:.	:	:	:	12	523 0 5	드 일	476 19 7	-
Hangarakan Clearing	:	:	:	:	:	263 7 2		203 7 20		203 7
Tangarakan taiver (creating), to account	:	:	:	:.	:	7	041 0 7	1 در	14	-
Ross Block	: :	::	::	::	: :		4	421 0	57 0 0	478 0
Carried forward	•				•	89 640 14 1	9.876.15.10	99.517.9.11	12.339 10 10	111.850 0

TABLE NO. 4—continued. STATEMENT showing the Net Expenditure on Roads, &c.—continued.

Brought forward ROADS, BRIDGES, ETC.—continued. HINTOR Improved-farm Settlement Hintor Place.	_		_ ! 			31st March, 1898.	12 Months ended 31st March, 1899.	31st March, 1899.	31st March, 1899.	and Liabilities.
IABANAKI Commues. Huiros Improved-farm Settlement		:		:		£ s. d. 89,640 14 1	£ s. d. 9,876 15 10	£ s. d. 99,517 9 11	£ s. d. 12,332 10 10	£ s. d. 111,850 0 9
Huivos Block	Stratford	:	<u>闰</u> :	Egmont	:	9	124 15 1	Н	75 4 11	
Trained Dioch	:	:	:		:	9				
Huiroa Roads	:	:	:		:	12	31 16 8	œ	4 1 1	115 10
Block X., Huiroa.	:	:	:		:	2	•	12	:	
Roads east of Walpuku	:	:	:		:	133	:		:	
Roads east of Midnirst	:	:	<u>;</u>		:		•	2;	:	253 10
Roads east of Stratford	:	:	:		:		:		:	
Denbigh Road subside		: :	: ;		: :	3 0	:	150	:	150
East Road		: :	: :		: :	<u>-</u>	•	-	: :	
Ohura (contribution)		:	:		:	:	1,118 16 11	Н	2,881 3 1	
Ohura	•	:	:		:	4,916 8 2	:	80	:	4,916 8
Taumatamahoe	•	:	:			0 81 666 6		9 999 18 0		9 999 18
Taumatamahoe No. 2		:	:		•	7	:	2 ;	•	
Strationd-Ongarune-Onura	,	:	:		:	7 :	1	٦ ٩	,	= ;
Strationd-Ongarune	:	:	:		:	11,704 10 10	12,613 15 7	ဗ	385 12 5	\dashv
Partilitation	:	:	:		:			۰ د		900
FullKlung	:	:	:		:	<	1,497 4 0	1,497 4 0	2 16 0	1,500 0
A Promo	:	:	;	•	:	4,144 0 0	:			4,144 0
Hairos Townshin (hishfelling)	:	:	:	•	:	:	:	:	0 0 00%	
Mangaere Improved-farm Settlement	: :	: :	: :			13	10 8 3	-	178 11 9	987 13
Manganui Block	:	:	::		:	894 0 0)	894 0 0	;	894 0
Eltham Block	:	:	:		:	0	:	0		
Gatton Special Settlement	:	:	:		:	:	:	:		_
Monakau	:	:	:	•	:	:	:	:	0	_
Puniarbakan	:	:	:	•	:	:	1000	101 11 11	0.001	0 000
Taihore (widening). At for £1 (to account)	4.	:	:		:	:	T	14		2002
Wingrove Road		:	:		:	•	:	:	-	
Manganui Bridge.		: :	: :		: :	: :	200 0 0	200 0 0	>	_
Autawa Block	:	:	:		:	947 3 6	_			_
Hurimoana Block		:	:		:	:		10	20	300
Kohurutahi Block	:	:	:		:	:	:	:	0	_
Liewellyn Block	:	:	:	•	:	:			0	_
Marco Block	:	:	:	•		:	233 14 0	233 14 0	116 6 0	350 0
Kimuputa Block	:	:	:	•	:	,	:		0	0 000
Gatton Block	:	:	:	•	:	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	. •	950 0 0		920
refrace that	:	:	:		:	>	940 4 II		T CT EC	0 221,1
Carried forward	<u>:</u>	:	-	:		175,094 7 2	27,056 15 8	202,151 2 10	18,382 13 3	220,533 16
	-									

TABLE NO. 4—continued. STATEMENT showing the Net Expenditure on Roads, &c.—continued.

	!			D			,				M-11-11-11-11-11-11-11-11-11-11-11-11-11
Name of Work.	,		County.		Ele	Electorate.	Total Net Expenditure to 31st March, 1898.	Net Expenditure during 12 Months ended 31st March, 1899.	Total Net Expenditure to 31st March, 1899.	Liabilities on Authorities, Contracts, &c., 31st March, 1899.	Total Net Expenditure and Liabilities.
Brought forward ROADS, BRIDGES, ETC.—continued.	:		:		-		£ s. d. 175,094 7 2	£ s. d. 27,056 15 8	g s. d. 202,151 2 10	£ s. d. 18,382 13 3	£ s. d. 220,533 16 1
TARANAKI—continued.		,			-		(•		•
Terrace End Special setlement Block	:	Strattord	:	: ====================================	Egmont	:	-	:	-	•	2,173 0 0
Mangaehu Block	:	*	:	:		:	۰ د	- 1	301 O	:	201 0
Puniwhakau Block	:	*	:	:	•	:	6 9 086	995 13 3	-		0
Makahu Block	:	*	:	:		:		4	4	346 16 0	200 0 0
Mangaotuku	_		:	:	•	:		:	0		0
Mangaotuku Block		: 4	:	:		:	376 12 7	:	376 12 7	:	12
Mangaehu and Llewellyn Special-settlement Blocks	ocks		:	:		:	:	146 5 3	146 5 3	153 14 9	300 0 0
(above loan)							•		<		c
To complete bushfelling, Strattord	:	ł	:	:		:		:	040	:	0.44.0
Refund expenses, T. Kelly, Mountain-road ()om-		:	:		:	O 8 6T	:	œ	:	æ
Bridge on Strafford-Onnuake Road	:		;			. :	376 19 8	•	8 61 928	:	376 19 8
Kamokonni Block	<u> </u>	Hawera.	: :	Щ	Hawera	: :	<u>-</u>	•	7	23 12 6	
Nasire (draining swamps)	:		•	:		: :	17	999 3 4	-		· -
Anderson's roads and bridges (Rawhiting Boad)	: :	2	: ;	: :	. :	: :	524 8)	524 8)	524 8
Poti Improved farm Settlement	:		:			: :	210 18	56 10 6	œ	72 11 4	C
Native Trust Blocks		. :	: :	 : :	. :		13		13		13
Nosire Improved farm Settlement	:		•	:			545 3	45 1 0	4	954 19 0	or.
Hitham and branch roads	:	•	:	:	•		10	1	, 1,2G		_
Wasta Improved farm Settlement	: :		: :	: :			6	20 0	6	123 0 0	တ
Rotokare and other roads	: :		: :	::	: 1	:	_		19		1,182 19 3
Ararata Bridge	:	: 4	:	:		:	0	:	0	:	0
Roads through bush, Waimate Plains	:		:	:		:	614 9	:	1,614 9 8	:	1,614 9 8
Roads through bush, Waimate Plains	:	*	:	:	*	:		:	œ	:	œ
Continuous reserve to be refunded	:	Ł	:	:	•	:	045	:		:	
Roads inland, Mokoia	:	*	:	- <u>F</u>	Patea	:	663 18 1	:	663 18 1		18
Tangahoe Valley	:	2	:	:		:	:	:	:	0	0
Punehu Bridge	:		:	:		:	,	1	(
Mangamingi Township	:.		:	: च्रा	Egmont	:		9 7 5	100 0 0	50 12 7	72
Through parts of Blocks I., II., V., VII., X., Ngaire	gaire	•	:	म् :	gmont, Pa	Egmont, Patea, and Hawera	2,041 0	:		:	2,041 0 10
Missing newto of Blooks III V V Masing Dietwick	to inte						or.		c:	-	
Tracks and huts, Mount Egmont		Taranaki,	Stratford,	and Ta		Egmont, and	541 17 0	158 3 0	700 0 0	141 17 0	841 17 0
	_	Намега			Hawera						
Hawera to Waitara	⊖ č				Egmont and Hawera	Hawera	14,469 19 2	:	14,469 19 2	:	14,469 19 2
Walu-Fader	:	Cilition, Tr	iiton, Taranaki, Si ford Hewers and D	Dates	gmont, Fa	ngmont, ratea, and nawera	0 000,80	:	٥	:	٥
South Egmont Forest Reserve		awera an	Hawera and Stratford		Hawera	:	œ	:	œ	•	œ
Mangamingi		2		:		:	6,640 4 10	:	6,640 4 10	:	6,640 4 10
Carried forward	:	•	:			•	315,018 7 1	28,940 3 5	343,958 10 6	20,549 17 3	364,508 7 9
	-			-			-				

TABLE NO. 4—continued. STATEMENT showing the Net Expenditure on Roads, &c.—continued.

Name of Work.	Brought forward Roads, Bridges, Erc.—continued. Taranaki Land District—continued. Great South Road, between Opunake and Manaia Paranaki	l of Patea	Waitotara Valley Waitotara, widening (four miles of this in Welling. " Waitotara, widening (contribution)	Opaku-Kapara Block Weraweraonga Whenuakura Valley Bridge and Road Ball Road (Blocks IX., X., XIII., XIV., Carlyle and	Opaku S.D.) Okotuku Centiral Patea Valley Mataimoana Motoroa Nukubau	Waverley-Patea	Block r Bridge (to account) aitotara altor £1 Akaka, £1 for £1 - Akaka, £2 for £1 - f (snagging) bridges, unsettled districts, 'Patea and	Laranakt Kaitanakhenna Block Kaitangiwhenna No. 2 Block (Rawhitiroa Road) Kaitangiwhenna No. 3 Block Whenuakura Block Kaitangiwhenna No. 2 Kaitangiwhenna No. 2
County.	 Taranaki and Hawera	::::	::::	::::	:::::	::::	Hawera and Patea " " " Taranaki, Hawera, Patea,	and Waitotara Stratford and Patea " "
Electorate.	 Hawers and Taranaki	::::					Pates and Egmont Pates Hawers and Pates Pates Pates Hawers and Pates	Egmont and Patea " " "
Total Net Expenditure to 31st March, 1898.	g, s, d, 315,018 7 1 2,946 0 0	1,926 0 3,652 16	1,220 19 18 5 1,481 15	2,594 600 1,077 74	221 17	355 11 3 70 0 355 0 6	.: 101 5 4 48,296 16 3	1,375 0 0 5,756 0 0 901 14 8 251 11 3
Net Expenditure during 12 Months ended 31st March, 1899.	£ s. d. 28,940 3 5	::::	. 1,720 14 3	130 2 5 981 5 0		15 15 0	498 14 8 1,270 17 1	 46 19 1 129 2 4
Total Net Expenditure to 31st March, 1899.	£ s. d. 343,958 10 6 2,946 0 0	0 0	5 v	2,725 1 3 600 0 0 1,077 12 3 1,055 6 8	17	#0z 0 2 70 0 0 358 16 9	600 0 0 1,270 17 1 	1,375 0 0 5,756 0 0 46 19 1 1,080 17 0 251 11 3
Liabilities on Authorities, Contracts, &c., 31st March, 1899.	£ s. d. 20,549 17 3	00	3	67 18 9	90 12 4 400 0 300 0 0 400 0 0 100 0	9 0	300 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	 453 0 11
Total Net Expenditure and Liabilities.	£ s. d. 364,508 7 9	100	3,320 19 18 5 1,481 15	793 300 377 358	200 0 621 17 300 0 400 0 100:0		300 0 600 0 1,270 17 400 0 200 0 60 0 48,296 16	1,375 0 5,756 0 500 0 1,030 17

			County.	ty.		Electorate.		Total Net Expenditure to 31st March. 1898.	Net Expenditure during 12 Months ended 31st March, 1899	Total Net Expenditure to 31st March, 1899.	Authorities on Authorities, Contracts, &c., 31st March, 1899.	Total Net Expenditure and Liabilities.
Brought forward ROADS, BRIDGES, ETC.—continued	inned.	:	:			:		£ s. d. 388,330 3 11	£ s. d. 33,886 17 2	£ s. d. 422,217 1 1	£ s. d. 25,678 0 10	£ s. d. 447,895 1 11
Taranaki Land District—continued. Tools, &c. General: Salaries Miscellaneous and engineering	:::	:::	:::			:::		254 4 2 402 18 8 3,978 12 5	.: 213 11 8	254 4 2 402 18 8 4,192 4 1	75 11 2	254 4 402 18 4,267 15
Total, Taranaki Land Distric	l Distric		:			:	<u> </u>	392,965 19 2	34,100 8 10	427,066 8 0	25,753 12 0	452,820 0
Wettinghow Land Drembren.							n* u - w					
Motoroa	:	Patea	•	•	Patea	:	:	:	:	:	0	175 0
Tongariro National Park Kaitieka Block	: :	Wanganui	anui		: :	::	: :	99 8 11 2.751 9 0	326 5 5 109 16 0	425 861	34 5 8 590 4 0	
Wanganui-Taupo	::					:	: :			5,376 18 1		5,376 18
Okahukura Okahukura 8m	: :	• •	; ;	•	::	::	::	387 10 10	88 12 6	476 3 4	23 16 8	0
Taurewa-Okahukura	:		:		:	:	:	1	ŧ	7	0 0 008	300 0 0
Gladstone Block	:	:	•		:	:	:	988 17 000 0	Z J.T J.GS	1 4		-
Waimarino	::	::			· · ·	::	: :		316 8 8	2,584 5 8	11	
Waimarino No. 2 Block	:	:	•			:	:	813 5		ت د د		10
Manganui Kuapenu Biock Moawhango-Karioi	: ;				: :	:	: :		210 3 1	495 3 6 1.116 6 6		9
Horopito Improvement Farm	::	·	•		: :	: :	::	14	16	10	က	579 1
Raetihi-Ohura	:	:	٠		:	:	:	9	149 10 3	2,327 16 3	450 9 9	
Ractifi Township Clifton Block	:	:	•			• •	:	1.163 0 0	Ç	<u> </u>		1.163 0
Clifton	: :	: :			::		: :		C21	206 2 1	79 7 1	285 1
Flood-damages, Makohine Village Settlement, Clifton	ttlement, Clift	" uo	•		:	:	:	:		115 10 0		
Block Hautapu-Main Road	:	-	•		:	:	:	•	:	:	0	150 0
Hunterville I., II., III.	:		•		:	:	:	0 9 1681		2,648 7 11	18	_
Otaranoho	:	:	•		:	:	:	:	13			
Retaruke Valley	•	:	•		:	:	:	ç		::	۰ د	200
Turakina Vailey	:	:	•		:	:	:	S, OI STO'S	002 13 0	4,281 9 9	ے م	1 000 T
Upper Mangachu Bridge	: :				::	: :	: :	: :	: :	: :	250	250
Clifton (No. 2) Block	:		•		:	:	:	:	•	:	186 0 0	186 0
Marton (No. 3) Block	::	<u>`</u>	•		:	:	:	:	:	:	0 0 008	0 008
Carried forward	:	;	;			•		29,397 7 11	4,426 16 3	33,824 4 2	5,237 1 1	39,061 5

TABLE NO. 4—continued.

FRMENT showing the New Expenditure on Roads &co_conf.

Name of Work.		Ö	County.		Electorate.		Total Net Expenditure to 31st March, 1893.	Net Expenditure during 12 Months ended 31st March, 1899		Total Net Expenditure to 31st March, 1899.	Liabilities on Authorities, Contracts, &c., 31st March, 1899.	Total Net Expenditure and Liabilities.
Brought forward ROADS, BRIDGES, BTC.—continued. WHILINGHON LAND DISCRETE—continued.	. •				:		£ s. d. 29,397 7.11	4,426	s. d.	£ s. d. 33,824 4 2	£ s. d. 5,237 1 1	£ s. d
Wanganui	:	Wanganui	:	Pa	Pates	:	ď	400		Ō	:	
Wanganui Block	:	*		:	:	:	1,588 9	167	10 10	1,556 0 0	90 16	1,556 0
Wanganii River Triist	:	•		:		:	7	1		o C		2 278 0
Raetihi-Parapara	: :	. :			: :	: :		88		583 14	561 6	245
Pipiriki-Waiouru	:		:	- *	: :	::	14	2,183		17	816 1	
Including (Pipiriki-Karioi		: \$:		:	:	24,571 18 10	ـ ـــــ		18 1		
Mangawhero-Murimotu (same as Wanganui-Muri-	Muri-		:			,	5 875 18 11	- 12	2 2	6 097 16 7	198 9 4	6 995 18 1
motu		•	•	· :	:	:	1	101		2	2001	
Paratieke	:	•	:	:	:	:	7 889	:), 7, 88c		588
Maincakareti	:	ŧ	:	· -	:	:	1 730 7	:	_	1 730 7 0	0 000	
Buguni 24 and 34		•	:	:		: :	-	: :		-	0 0 00%	80
Wanganui River (steamer subsidy)	::	Wanganui and Wai	nd Waitotara	•		: :	2,280 7	7 Cr. 87	10 0	2,192 17 7	•	-
Rotoaira-Tokaanu	:	East Taupo			y of Plenty					.		
Ohingaiti-Tokaanu	:	Taupo East, W	i, Wanganui,		Bay of Plenty, Patea,	a, and	20,968 15	5 2,225	12 2	23,194 7 7	223 6	23,417 14
Hunterville-Turangarere	:	Ditto Wangunkei	olkei nd Wangan		Ditto Bay of Dianty and Dates		24,867 1	98	<u>و</u>	24,867 1 8	: 6	24,867 1
Rotogira-Waimarino	: :	Tartho Maga	मार्थ गर्भमाहिता		א חודש לחוומו דו וה ל	8000		110		ם גם		
Waimarino-Tokaanu	: :					: :		. :		9		
Kuripapanga-Karioi	:	Wanganui, Rangitikei, and	angitikei, an	P.	Patea, Rangitikei,	and,	2,443 11			11		П
Moawhango-Te Horo	:	Wanganui	oay and Hawke's		nawke s Day Patea and Rangitikei	:	504 3	74	19 3	552 2 10	202 0 9	754 3
Paihane Pownshin		Bangitikei		Δ.	Bangitikai			6	9	917 7 9	198 14	416. 1
Rongoiti Improved Farm	: :	Town Same		: : :		: :	ı ro	380		<u>.</u>	54 12	820 0
Hautapu	:	: 2	:	:	:	:	01		15 10	229 1	61	
Taihape	:	•	:	:	:	:				4	230 10	-
Ohutu	:	•	:	:	:	:	0 ;			791 0	198 6	
Otheres improved Farm	:	•	:	:	:	:	17.1 18 911 7	213		385 0	314 16	1 200 1
Pukeokahn (IX.) Block	:	•	•	: :		:	-	-		0 0 0 0	ET OF	
Hautapu (VIII.), Ruahine (V., IX., X.) Blocks, Hau-	s, Hau-		: :	: :	: :	: :	::	81	3	81 3 3	218 16 9	300 0
tapu-Kuahine No. 2 Pukeokahu (X., XIII.), Ohinewairua (XVI.),	, Нач.	•	:	:	:	:	:	300	0 0	300 0 0	:	300 0
tapu (IV.), Ruahine (I.) Block, Pukeokahu Masterton-Tenui Improved Farm	::	•	:	:	:	:	801 4 1	10 154	16 4	956 1 2	145 3 8	1,101 4 1
F	_						1	1	1			
Carried Iorward	:		:		:		142,131 11	15,899	9 91	158,031 7 7	10,097 0 1	168,128 7

TABLE NO. 4—continued. STATEMENT showing the Net Expenditure on Roads, &c.—continued.

Brought forward Broads, Bridges, etc.—continued. Mangaweka Improved farm Settlement. Mangaweka Township Mangaweka Township (drainage) Manyhango Bridge (Horouta) Mowhine Valley Trainape-Paengaroa (same as Hautapu-Sommerville) Kakariki Bridge (approaches) Hautapu (I., V., VI., IX., X.) and Thiraukawa (IV., VIII.) Blocks, Upper Makchine Paraekaretu Block Te Kapua Otiri Block Murray's Track Marton to Murimotu Murray's Track Watershed and Murray's Pohomuiotane Block Mangapapa Pohomuiotane Block Mangapapa Pohomuiotane Block Mangapapa Pohomuiotane Block Mangabu Bridge, Vinegar Hill, £1 for £1 Hales's Track to Murimotu Bridge over Wangachu Whangachu River Bridge, £1 for £1 Flood subsidies Temporary bridges, Rangtitkei Temporary bridges, Rangtitkei Lands and Survey Offices, Wanganii Lands and Survey Offices, Wanganii		Rangitikei	County. i and Kiwitea and Rangitike a and Rangitike and Rangitike a and Rangi		Electorate. Rangitikei " " " " " " " " " " " " " " " " " "		Met Expenditure auting 12 Months ended 31st March, 1899 16 6 6 15,899 16 6 6 15,899 16 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	1839. S. 183	Authorities, Contracts, &c., Silst March, 1889. 2 8 9 10 10,097 0 1 1,000 0 0 0 0 0 0 0 0 0 0 0 0	8. 8. 8. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.
To relieve Wanganui bridge irom folis Patea to Wanganui Wairoa Survey District Waitotara Valley	::::	Waitotara and Patea ,,	d Pates	Wanganui Patea "	and Patea			36,275 18 9 14 5 7 686 0 0	. .::	36,275 18 9 14 5 7 686 0 0
Carried forward	:		:		:	212,622 17 1	20,974 2 10	233,596 19 11	15,872 8 9	249,469 8 8

TABLE NO. 4—continued. STATEMENT showing the Net Expenditure on Roads, &c.—continued.

	710	DIALEMENT	20	owing the	NET DAFF	DXPENDITURE	on roads, &c.	.—convenueu.			
Name of Work.		Con	County.	•	Electorate		Total Net Expenditure to 31st March, 1898.	Net Expenditure during 12 Months ended 31st March, 1899	Total Net Expenditure to 31st March, 1899.	Liabilities on Authorities, Contracts, &c., 31st March, 1899.	Total Net Expenditure and Liabilities.
Brought forward ROADS, BRIDGES, BTC.—continued. Warthymore Lynn Dromeron	:				:		£ s. d. 212,622 17 1	£ s. d. 20,974 2 10	£ s. d. 233,596 19 11	£ s. d. 15,872 8 9	£ s. d. 249,469 8 8
Tokomaru Block	Wait	Waitotara	•	Patea	;	:	ന	. :	ຕວ	:	ಐ
Te Ngaue Block		ಹೆ	::	-:	: :	:	200 0 0	:	200 0 0	167 0 0	367 0
Te Ngaue No. 2 Block	:		:	:	:	:		:		•	i
Omahine Block	:		:	:	:	•	0	:	0	:	0
Waverley-Patea Koad	:		:	:	:	:	130 0 0	:	130 0	•	100 0
Mangawhio road	:			:	:	:	n C	:	o C		, C
Womahaki Village Settlement Block	: :		: :	: :	: :	: :	1.310 17 8	: :		49 2 4	0
Momahaki-Waitotara	::	-	: :	::	:	:	13	:	3,602 13 1	:	3,602 13 1
Waitotara-Omahine	:		:	:	:	:		:	-	:	3,524 1 9
Waitotara River Suspension Bridge	:		:	:	:	:	0	:	0		
Road through University Reserve		,		:	:	:	• !	• (0	0 0 091
Rangitikei Bridge, Mangaweka	Kiwi	Kiwites and Rangitil	tangitikei	Kang	Kangitikei	:	217 17	452 1		9 1	– 1
Awarua Banoitikai Bridge Otara, £1 for £1	:	*		:	:	:	15,050 19 5 672 13 1	1,880 9	16,931 8 8 672 13 1	655 7 0 1.000 0 0	17,586 15 8
Kawatan-Hantann	Kiwitea	tea.	:		; ;		19	: :	16		16
Kawatau	:		: :	: :	::	: :	13		13		19 1
Kawatau Valley Road	:		:	:	:	:			14	1,071 5 3	
Kawatau Block	:		:	:	:	:	13	9	0	2	-
Kawatau Improved-farm Settlement	:			:	:	:		12 14 0	1,466 18 7		1,689 10 8
Otamakapua	:		:	:	:	:	0	:	0	•	2,288 0 8
Otamakapua and Waitapu	:		:	:	:	:	200		ည် ကြွ		9,404 8 2
Ingalo Road Hentenn-Rushins	:		:	:	:	:		1 013 7 9		1 0 86	-
Merton 1 and 9	:		:	:	:	:	9	950 o	; <	, 5	1,000 0
Hantann-Bushine (Marton 1 and 2)					: :	:	4	>	4	ì	4
Hautapu Ruahine Block (Marton 1 and 2)			: :		: :	:	4,373 14 4		6	11 1 5	4,537 11 3
Hautapu No. 2 Block	:		:	:	:	:	8		713 15		0
Mangawhaririki	:		:	:	:	•	8,415 6 3	916 0 6	9	583 19 6	915 6
Hautapu Block	:		:	:	:	:	0	;	0		0
Hautapu	:		:	:	:	:	730 9 0	Π;	0 !	o	о
Hautapu No. 2,	:		:	:	:	:	,	136 17 6	17	363 2 6	o +
Keremeran Rlock	:		:	:	:	•	910 1 0	Ø	709 10 #	7	042 1 0
Laiewatewa Dioon	:		:	•	:	•	4	•	4		٦ <
Onelow	:		•	:	:	:	:	:	•	> <	> <
Onslow Block			:	•	:	:	:		œ	- ·	-
Demberton Improved farm Settlement	:		•	•	:	:	σ	3 =	9 0	10	0
Pemberton-Wairaki (Pukerimu)			::	::	::	: :	888 7 6	32 3 0	920 10 6	38 5 3	958 15
Comment Comment						•	979 040 19 10	00 500 0 1	90g 699 g 11	99 000 11 9	909 700 19 0
Carried to Matu	:		•		:		P	0	•	1	07

TABLE NO. 4—continued. STATEMENT showing the Net Expenditure on Roads, &c.—continued.

Brought forward Roads, Bridges, Bic.—continued.			Diectorate.	Expenditure to 31st March. 1898.	during 12 Months ended 31st March, 1899.	Expenditure to 31st March, 1899.	Authorities, Contracts, &c., 31st March, 1899.	Total Net Expenditure and Liabilities.
· ·	: .		:	£ s. d. 278,040 18 10	£ s. d. 28,592 8 1	£ s. d. 306,633 6 11	£ s. d. 22,089 11 3	£ s. d. 328,722 18 2
Wellington Land District—continued.	Vimitoe	Rangitikai				1 180 3 9		1 180 3
Kimbolton_Wairaki	··· BOOTMIN	·· Tramerone	:	865 14 3	:		: :	,
Kimbolton Boad extension				4	•	4	: :	4
Kimbolton Boad-Orona			: :	1 07	: :		: :	. 03
Kimbolton				7.	553 10 11	1 10	695 14 10	1.699 0
Conspictions Boad			: :	9 00		960		862 4
[murto]	:			4		· C		250 0
Umittoi Block			: :	-	3	-		550 0
Pakihikura		. :	: :	· C	:	· C		490 0
Road Orona Biver	:			0	•		: :	200
Annuta Road and Bridge			:	>		•	300 0 0	300 0
Waitann Blook	:			9		9	,	1.379 6
Tangoira-Goal Greek Block	Kiwites and Pohaneina	* · · · · · · · · · · · · · · · · · · ·		2,030 0 0.0				2,030 0
Main Boad Mangoira-Goal Greek	THE PARTY OF THE P			٠.	486 7 0	-4	- 0	486 8
Mangira-Goal Grash	•				•	· C	,	452 2
Outrie Duides		:		1 (•	1 42		1 405
Aniti District	Pohangina.	:		202	:	500 0 0	:	
miti Bridge	· · · · · · · · · · · · · · · · · · ·	• 	:	•	•	>	0 0 226	975 0
Apin Dridge	•••	:	:	190 17 1	70 8 07		*	-
Debanding Blogh	:		:		>	1 181 0 0	H	1 181 1
Tuning Dood Aniti Nowcomood		:	:	0	120 17 6	100 16 1		
Solishing and Delaware Block	:	:	:		-	2	•	
Collaborational Delements	•	:	•		194 7 0	-	2.0	1 869 8 10
Desirount and Denamed Apprintion	:	:	:	2	-	2		
ייי יייי יייי יייי ייייי ייייי יייייייי	•	:			99K 17 K	4	9	9046
Debending Veller Deed		:	:	272 0 0	-	252	7	578
Trans Debenains Vallet	:	:	:	٦ د	400 0 9	٥ ٢	1 19 9	1 400 0
Protect Commission Value of December 1	:	:	:	200	•	- 0	150	1,100 C
Folkangina Vaniely Forest reserve	:	:	:	2 5	:	<u> </u>	>	000 17
ast side of Fonangina Miver		:	:	022	•	920 11	:	320 1
Orous-Coal-Creek, Pohangina-Orous	:	:	:	1,994 2 2	,	1,994 2 2	(1,994 2
Malton	:	:	:		148 6 8	9	251 13 4	400 0
Malton Block		:	:	0	•	0		302
Norsewood-Apiti	Pohangina and Waipa	wa Rangitike	Rangitikei and Waipawa	16	1,099 18 7	14	15 4 10	1,434 19
Bridge Approach, Orepuhi	Rangitikei and Oroua	Manawat	Manawatu and Rangitikei	150 0 0	:	150 0 0	:	150 0
Manawatu Gorge	Orous and Pahiatus	Pahiatua and	and Palmerston	117,236 6 4	:	117,236 6 4	:	117,236 6
				877 9		0.		877 9
Blocks V., VI., IX., X., and XIII., Kairanga Survey District. Palmerston, North, 24 miles, to open	Orona	Palmerston	no	1,524 7 2	::	1,524 7 2	:	1,524 7
8,582 acres								
Carried forward	:		•	421,740 18 0	32,668 2 4	454,409 0 4	23,950 6 5	478,359 6

TABLE NO. 4-continued. STATEMENT showing the Net Expenditure on Roads, &c.—continued.

A A 137				_					Total Not	Liabilities on	Total Nat
INLINE OF WORK.			County.	-	Electorate	Ġ.	Expenditure to 31st March, 1898.		Expenditure to 31st March, 1899.	Authorities, Contracts, &c., 31st March, 1899.	Total Net Expenditure and Liabilities.
Brought forward ROADS, BRIDGES, ETC.—continued.	•		:		:		£ s. d. 421,740 18 0	£ s. d. 32,668 2 4	£ s. d. 454,409 0 4	£ s. d. 23,950 6 5	£ s. d. 478,359 6 9
continued. (to account) II., Kairanga	Survey	Oroua.	::	Ps	Palmerston	::	3,738 8 0	1,000 0 0	1,000 0 0 3,738 8 0	::	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
District, Faimerston Noven Kairanga Drain	:		:	:		:	o	:	000	:	851 8 4
Repairs, Fitzherbert Bridge Roads in Fitzherbert Block	::	: :	::	::	::	::	1,050 5 3	::		::	ۍ تو
ocount of	contribution,		::	::	::	::	0	::	0	1,500 0 0	400 0 0 1,500 0 0
£2,000) Alfredton-Weber Road	:	Wairarapa	Wairarapa North and	Pa. Pa	Pahiatua	:	24,997 0 1	3,051 2 3	28,048 2 4	480 11 9	28,528 14 1
Akitio Improved-farm Settlement	:	bitto Ditto Pahiatna e	vangava Ditto Pahiatna and Wainawa	:	Pahiatna and Wainawa	oww.	2,875 14 8 61 396 5 7	1,776 17 1	4,652 11 9	62 6 10	4,714 18 7
Severally Lune Dush	: :	D-1:-	Delicate one and margane	::	Pahiatua 10-11-11-11-11-11-11-11-11-11-11-11-11-1	3 3 3 3		257 11 9	တ္	342 8 3	100 5
Fantatua-Palmerston North	: :	r aniimous	and Oroug	<u>-</u> : :	aniahua andana	armerston.	7 17 2	142 5 6	17	-	7 17
Mangatoro Valley	:	Faniatua	:	: :	Faniatua and W Pobiotus ond M	and Walpawa	11 51 715,6		0,044 11 11	43 24 0	0,617 15 11
Aonanga-waewaepa Losa Upper Manawatu Gorge Road	: :	: :	: :	<u>- Ãi</u> ∶∶	Pahiatua		_	: :	-	: :	-
Upper Manawatu Roads Hall Special Settlement	: :	\$ 3	: :	: :	: :	: :	22 8 1	185 18 0	8 8	614 2 0	22 8 1 800 0
Hall Association Block	:		:	:		:	794 0	ļ		(0
Ballance-Manawatu Gorge Makairo Road	: :	*	: :	: :		:	1,196 16 8	144 17 3 330 18 0	1,341 13 11 $4.093 0 7$	355 2 9 91 6 2	1,696 16 8 4 184 6 9
Mangatoro Township (felling)	: :	: :	::	: :	: :	: :	34 2	}		,	প্র
Coonoor Block	:	*	:	:		:	134 0 3	:	134 0 3	:	0
Compor Association Compor Farm Homestead Association	: :	: :	: :	: :	: :	: :	>)		0
Woodville-Aohanga	:	: >	;	:	:	:	1,807 0 10	564 6 1	2,371 6 11	235 13 11	0
Waewaepa, £1 for £1	:	ŧ	:	:	:	:		:		:	
Toritea Foad	:	2	:	:		•	0 0 001	906 3 10	906 3 10	93 16 9	0 0 008
Tiranmea North	: :		: :	-:	: :		425 0 0)	0	2	0
Kaitawa Ridge Road	:	: :	:	:	:	:		212 3 11	3	487 16 1	0
Mangaramarama Road	:		;	:	:	:	<u></u> .		<u>-</u>		<u>.</u>
	:	*	:	:	:	:	4 4	362 6 4	356 10	8 6 88	400 0
Tiraumea-Makuri Tiraumea Duidee (Subaide Trulla Chamba	:	ŧ	:	:	:	:	# 0	:	1,010 14 2	:	# 0
Thaumes Eridge (Subsidy, Hull's Crossing) Tiraumes Bridge (Subsidy, Hull's Crossing)	::		::	: :	: :	: :	238 10 0	• •		::	238 10 0
Carried forward	:		;				536.747 1 5	41.159 10 4	577 906 11 9	99 147 16 6	607.054 8 3

TABLE NO. 4—continued. STATEMENT showing the Net Expenditure on Roads, &c.—continued.

Name of Work.	3	County.	Electorate	ate.	Total Net Expenditure to 31st March, 1898.	Net Expenditure during 12 Months ended 31st March, 1899.	Total Net Expenditure to 31st March, 1899.	Liabilities on Authorities, Contracts, &c., 31st March, 1899.	Total Net Expenditure and Liabilities.
Brought forward		:	:		£ s. d. 536,747 1 5	£ s. d. 41,159 10 4	£ s. d. 577,906 11 9	£ s. d. 29,147 16 6	£ s. 607,054 8
ROADS, BRIDGES, ETC.—continued. Wellington Land District—continued. Mangatainoka Bridge, at Tutackara. Grossing, £1 for	Pahiatua	:	Pahiatus	:	:	3 12 0	3 12 0	596 8 0	0 009
#1. Makuri, Section 12, Block X	; ;	::	::	::	::	::	::	$\begin{array}{cccc} 50 & 0 & 0 \\ 150 & 0 & 0 \end{array}$	50 0 150 0
Ngaturi-Aohanga	.	: :	: :	: :	::	: :	: :	350 0 0 100 0 0	350 0 100 0
Ohinereista Boad. Pahistna-Bailway-station (repairs) £1 for £1		: : :			: :	0 0 96	0 0 96	00	
Tutaekara-Nikau Imner Tiranmea Vallev	* :	: :	•			ı		100 0 0	
Ballance Bridge (to account)	: :	: :	:		::	: ,:	:	0	3000
Mangatainoka River Bridge, Hamua (to account)			: :	: :	0	: ;	0		1.000
Tiraumea Bridge		::		:	10 1		-	1	2,244 10
Tiraumea Valley Ivoad	. :	: :			5.411 18 3	0 Z CZT	5,411 18 3	Z/4 I/ 4	5.411 18
Mangahao Bridge		::	:	:	500 0	:	0	:	
Mangatainoka Bridge Road	*	:	•	:	1,000 0 0	:	819 7 10	:	1,000 0
Makakahi Road Bridge Road to Makakahi					, 7C	403 14 4	0	: :	
Makakahi Bridge to Mangahao		: :	. :	: :	173	ł	13	: :	
South Pahiatua Road	: >	:		;	1,609 0 8	117 9 9	1,609 0 8	89 10 10	1,609 0
Te Aupapa Road and Makuri Bridge		: :		: :	0	٠ ،	0		
Makuri Township		:		:	F	13 8 9	13 8 9	46 11 3	0 5
Makuri Townsnip (unsold) Makuri Bridge, near Township		: :	. :	: :	0	::	295 0	::	733 11 295 0
Makuri Gorge Road		:	:	:	r 20	:	ر ى	:	3,925 3
Tutaekura Koad	Pahiatua and Wair	and Wairarapa)		:		: 00	7	:	$\begin{bmatrix} & 311 & 1 \\ 1 & 1,287 & 11 \end{bmatrix}$
Waiwera Block	North Ditto		Pahiatua and Masterton	fasterton	(675 19 9 1,521 10 1	>	$\begin{pmatrix} 775 & 0 & 0 \\ 1,521 & 10 & 1 \end{pmatrix}$: :	(775 0 1,521 10
Wajwera	•	:		:	:	:	:	240 0 0	
Mount Marchant Road, £1 for £1 Mangaone Valley		::		::	200 0 0 96 16 9	::	200 0 0 96 16 9	::	200 0 96 16
Carried forward					568 900 0 1	42.017 17 6	610,217 17 7	39 949 3 11	649.460 1

Wellington Land District—continued. Mangaone-Tiraumea Pori Tiraumea River Road-Pa Valley Road Makuri-Pongaroa Makuri-Aohanga Road (Rakanui) Puketoi Puketoi Puketoi Puketoi Puketoi-Aohanga Pahiatua, Mangaone, &c. Mangatainoka Valley North Waitarapa (Hoad-damages, £1 for £1) Rising Sun Association Pahiatua No. 1 Pahiatua No. 2 Pahiatua No. 2 Pahiatua No. 3 Aohanga, Waiowaka Kaikoura Farm Homestead Settlement Roads Pongaroa School Road (metalling) Pongaroa School Road (metalling) Settlement Barh Homestead Settlement Roads Wethiston 183, Block IV. Aohanga-Aohanga Valley Wethiston	Pahiatua and Wairarapa North Ditto " " " Wairarapa North " " " " " " " " " " " " " " " " " " "	apa Pahiatua-Masterton Pahiatua Masferton and Pahiatua Masterton and Pahiatua Pahiatua """ """ """ """ """ """ """	2. S. d. 568,200 0 1 1,246 4 6 150,406 4 1 3,040 6 11 12,374 18 9 19,317 15 2 200 14 7 1,297 19 5 1	12 Months ended 31st March, 1899. 42,017 17 6 28 17 0 3,210 4 9 1,382 15 5 50 15 0 778 19 11 498 6 11 597 11 0 778 19 11 498 6 11 597 0 5 651 6 4	£ s. d. 610,217 17 7 1 1,246 4 6 150 0 0 13,616 8 10 423 2 4 12,374 15 2 19,317 15 2 397 11 0 200 1,796 6 4 1,798 8 6 1,798 8 1,79	11.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	### Section 1,246 1,246 1,246 1,246 1,246 1,246 1,246 1,241 1,241 1,241 1,241 1,241 1,241 1,241 1,241 1,242
Wainchallou Wainokaka, Road Extension Wainoku Valley Wainoku Valley Wainoku Valley Shipping Shed, Aohanga, East Coast Shipping Shed, Aohanga, East Coast Masterton Reform Association Mangatiti Improved-farm Settlement Aohanga Gorge Road Rakanui-Makuri-Pongaroa Junction Rakanui-Makuri-Pongaroa Junction Copper Mangatiti Road Christchurch Rarm-homestead Block Mischurch Association Puketoi-Aohanga Block Mecalickstone Ram-homestead Block Mecalickstone Ram-homestead Block Mecalickstone			 678 7 2 968 5 10 952 11 8 757 5 9 1,369 13 10 210 0 9 304 14 5 76 6 4 1,503 0 0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	946 2 11,253 5 2,119 4 1,975 2 1,975 2 589 8 56 13 1,869 13 1,869 13 1,503 0	200 00 200 00 150 0 0 200 0 0 0 0 0 0 200 0 0 0 0 0 0 200 0 0 0 0 0 0 0 200 0 0 0 0 0 0 0 0 200 0 0 0 0 0 0 0 0 0 0 200 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	

Name of Work.	County.	Ĕ	Electorate.	Total Net Expenditure to 31st March, 1898.	Net Expenditure during 12 Months ended 31st March, 1899.	Total Net Expenditure to 31st March, 1899.	Liabilities on Authorities, Contracts, &c., 31st March, 1899.	Total Net Expenditure and Liabilities.
Brought forward ROADS, BRIDGES, ETC.—continued.	:		•	£ s. d. 626,665 0 8	£ s. d. 53,402 19 9	£ s. d. 680,068 0 5	£ s. d. 36,713 4 11	£ s. d. 716,781 5 4
Wellington Land District—continued. Hua Mangatainoka River Bridge (Newman-Stirling), on	Wairarapa North "	Pahiatua	::	1,354 14 10	268 11 9	1,623 6 7	59 8 3 200 0 0	1,682 14 10 200 0 0
account Eavletoi Burling's_Macalicktone	2	Pahiatua al	Pahiatua and Masterton.	2,681 8 0		2,681 8 0	7 16 9	2,681 8 0
Smith's Footbridge-Totara Reserve		Mast	:	, ,	92 19 4	19		00
Hukunui to flawera, 31 for 10s. Hukunui Masterton Special Settlement Doni Doni Dilictri and Pina mana Builde and Bond	: :	::	: :	> <	297 6 1		2 13 11	
Lori Local, Fukelor and Liraumea Diuge and Local, Napier's Crossing	2	:	:	•		200		> <
Kakariki Special Settlement	: :	: :	::	>	287 2 3	287	112 17 9	0
Stirling Block	2	:	:	1,191 14 9	300	1,191 14 9	:	1,191 14 9
Waipoua River Bridge	: :	: :	: :	>	>	>	200 0 0	0
Tararua	2	:	:	ဗ	:	123 6 0	•	စ
Eketahuna County roads (flood-damages) Wallington Settlement-Forest Reserve	2 1	: :	: :	0 0 0 00 00 00 00 00 00 00 00 00 00 00	: :	0 0 0 0 0 0 0 0 0	: ;	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Eketahuna-Sterling		: :		19	•	297 19 1		19
Te Maru Mangaone Bridge	2			959 7 8	•	252 7 3	400 0 0	400 0 0 252 7 3
Eketahuna-Parkville				0 0 000	: :		•	0
Parkville-Mangatainoka		: :	:	>		>	400 0 0	0
Ihuraua Valley Road		:	:	300 0 0		300 0	: :	0
Eketanuna-Airenton	2 :		: :	>	0 00 1	>	0	
Kakaamu	: :	::	: :	: :	::	: :	0	0
Kuware Lano's Section Wairere (Dago's Boad), £1 for £1	a :	: :	: :	• ;	: :	; :	130 0 0 250 0 0	130 0 0
Mangamahoe-Panemango		: :	: :	: :	: :	:	0	0
Mangaparapara, £1 for £1		;	:	:	:	:	0	0
Mount Baker (Tawataia Tollgate), Mangamahoe	•	:	:	:	:	:	0	0
Tawatania Koad	2	:	:	:	:	:		0 0 008
West Boad	* :		: :	: :	: ;	::	0	0
Tiraumea Bridge No. 1 (Edwards's Crossing)			:		:		0	0
South Mangaone Road Mangaone (Norling's)	2 2	::	::	214 7 4 138 13 6	61 6 6	214 7 4 200 0 0	::	214 7 4 200 0 0
Carried forward				637,758 12 11	55,502 8 11	693,261 1 10	39,933 2 3	733,194 4 1

TABLE NO. 4—continued. STATEMENT showing the Net Expenditure on Roads, &c.—continued.

		STALEMENT SHOWING		THE MET	LAFENDITORE	OH LUADS, &C.	correctedore.			
Name of Work.		County.		Elect	Electorate.	Total Net Expenditure to 31st March, 1898.	Net Expenditure during 12 Months ended 31st March, 1899	Total Net Expenditure to 31st March, 1899.	Liabilities on Authorities, Contracts, &c., 31st March, 1899.	Total Net Expenditure and Liabilities.
Brought forward. ROADS, BRIDGES, ETC.—continued. WILLYRING LAND DECEMBER.		:		·		£ s. d. 637,758 12 11	£ s. d. 55,502 8 11	£ s. d. 693,261 1 10	£ s. d. 39,933 2 3	£ s. d. 733,194 4 1
Mount Baker (Pioneer)	:	Wairarapa North		Masterton	:	-	•	-	:	3,539 1 9
Mount Baker Valley	:	4 2	:		:	100 0 0		0	:	100 001
Mangaoronga Road	:	: *	:		:	0	5 0 0	0	0 0 99	310 0 0
Kaiparoro	:		:	Ł	:		<u>-</u> -	217 7	12	300 0
Kaiparoro Block	:	*	:		:	-	9	1,174 0 0	:	1,174 0 0
Kalparoro No. 2 Block	:	*	:		:	0	,	-	:	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Barton's Road	:		:	*	:		2 61 96		<	0 000
Barton's Road-Mangamahoe Junction	:		:		:	:	:	:	-	0 0 007.
Darton's Road-Meduarrie's Boundary Bidoford Doed wid Memorials of for 64	:		:	•	:	:	:	:	0 0 000	0 0 000
Dicelora ivoca <i>vic</i> intenganeka, zu 10f zu Roussie Rosd. Hestmall	:	*	:		:	102 10 8	•	108 10 B	0	959 10 0
Rangitiman Block	:		:	ž.	:	2 0	•	2 0	>	۲
Wanniceville roads (storm-damages)	:	"	:	u	:	000	:	000	•	000
Mauriceville West	: :	ė :	: ;	. :	•	652 1 2		-	: :	652 1 2
Mangamahoe Road	: :		: :	: :	: :	5.	: :	15	:	1,022 15 9
Mikimiki Bridge	:		:	: :	:	:	353 8 4		146 11 8	
Driscoll's Road	:	*	:		:			0	:	100 0 0
Dagg's Road	:		:		:		,	0 ;	:	,
Barton's Road-Wairere	:	.	:		:	I,	20 0	Ξ°	:	_
Uleland's Road	:		:		:	320 0 0	:	320 0 0	d	
Wingste Kosa	:	*	:	L	: :		:	:	> <	380 0 0
Alfragton Monni (contribution)	:		:		:	:	•	•		
Te Mara Block	: :	2 :	: :	ŧ:	: :	392 4 7	18 5 2		25 10 3	
Mikimiki	: :		: :	Wairarapa a	and Masterton	12	,	12	i	
Dannevirke-Centennial Block	:		:			135 9 5	181 8 6		01	
Uruti-Castlepoint	:	•	:	Wairarapa	:			0	0 !	
Kaiwhata, Run 49	:	u	:		:	•	4 3 0	4 3 0	195 17 0	
Small grazing run 51, Kewa S.D.	:	•	:	2	:	:	:	:	0	0 0eT
Fenul Bridge and Road (contribution)	:	t	:	ŧ	:		•		:	•
Kaiwhata Kun (near Brancepeth)	: :	18	:	•	:	0 0 001	:	0 0 007		0 0 001
Taueru Bridge (Masterton-East Coast), zi ior zi (to	01 ± ±1 (10	*	:	Þ	:	:	:	:	0 000	>
Kaiwhata Rewa	:		:	*	:	200 0 0	33 13 6	233 13 6	16 6 6	
Craigie Lee (Douglas Road)	:		:		:		•		0	0
Wairarapa East	:	Wairarapa North and	South	Wairarapa, 1	Wairarapa, Masterton, and	1,500 0 0	:	1,500 0 0	:	1,500 0 0
Kaiwhata Valley, Kiawhata, and Pahaoa	:	Wairarapa South	:	Faniatua Wairarapa	:	1,270 12 6	437 0 10	1,707 13 4	62 19 2	1,770 12 6
Kaitangata	:				:				14	0
Carried forward	:	:			:	655,246 10 11	57,471 3 9	712,717 14 8	43,655 15 5	756,373 10 *1

TABLE No. 4-continued.

&c.—continued.
Roads. &
on
NET EXPENDITURE OR ROADS.
the .
I showing the
STATEMENT

Brought forward Roads, Bridges, ETC.—continued. Kaitangata Blook Ruamahanga Bridge Ruamahanga Bridge (£1 for £1), Masterton-Glad- Ruamahanga Bridge (Taratahi-Carterton) flood- damages Cameron's-Pahaoa Gladstone-Flat Point Mangatarere Range Road Wharau-Kawhata Jackson's Creek Bridge (Rast Coast Main Road) Sutherland's Bridge (subsidy) Walohine Bridge (oust (subsidy)) Walohine Bridge (coast (restoring)) Walohine Bridge (Loast (restoring)) Walohine Bridge (abast Coast (restoring)) Walohine Bridge (abast Coast (restoring)) Walohine Bridge over Walohine Gladstone-East Coast (restoring) Walohine Bridge over Walohine Gladstone-Bast Coast (restoring) Walohine Bridge (abast Foxton) Walohine Bridge (bo account) Cotaki Bridge (to account) Foxfon-Otaki (inland)	Wairarapa	: ::: : :::::::::::::::::::::::::::::::	£ s. d. 655,246 10 11 11 200 0 0 0 0 0 0 0 0 0 0 0 0 0	£ s. d. 57,471 3 9 500 0 0	£ s. d. 712,717 14 8 656 0 0 200 0 0 500 0 0	48,655 15 5 5 6 48,655 15 5 6	200 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
erton-Glad- srton) flood- n Road) (to account)	Wairatapa		0 0 0 0 15 15	•	0 0 0 181	000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
ge (£1 for £1), Masterton-Gladdge (Taratahi-Carterton) floodon in the control of			0 0 0 158	•	0 0 0 181	000000	00 0 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
(£1 for £1), Masterton-Glad- (Taratahi-Carterton) flood- in (East Coast Main Road) ubsidy) tarawa) (restoring) tarawa Texton the coordinate of the coord			0 0 0 15 15 15 15 15 15 15 15 15 15 15 15 15	•	0 0 0 181	000000	0 0 00 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0
(Taratahi – Carterton) flood- e (East Goast Main Road) ubsidy) tarawa) trestoring) trestoring) trestoring) trestoring) trestoring) trestoring) trestoring)		: :::::::::::	0 0 0 1 1 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2		0 0 181	000000	0 000000 811 0 000000 11
(Taratahi - Carterton) floodulest Cast Coast Main Road) ubsidy) tarawa) (restoring) t and		: ::::::::::::	0 9 1 1 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2		0 9 18 18	000000	0 0000000 8 2 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
e (East Coast Main Road) ubsidy) tarawa) (restoring) t and		::::::::::::	6 1 15		6	000000	00000000000000000000000000000000000000
e (East Coast Main Boad) subsidy) tarawa) (restoring) t doru a Bridge, £1 for £1 (to account)			6 1 15		18	00000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
e (East Coast Main Road) tarawa) (restoring) t ioru a Bridge, £1 for £1 (to account)		:::::::::	6 1 18 15	í::::::	18 6	00000	0 0 0 0 0 8 1 1 0 0 0 0 0 0 0 0 0 0 0 0
unt)	:::::::::::::::::::::::::::::::::::::::	::::::::	6 1 18 15	::::::	18 1	0000	0000 81 82 0
ant)		:::::::	6 1 15 15	::::::	18 6	000	0 0 0 0 1 1 2 1 0 0 0 0 1 1 1 1 1 1 1 1
ant)	:::::::	::::::	6 1 15 15	:::::	. 9	00	0 0 8 2 5 0 0 1
for £1 (to account)	::::::	::::::	6 1 15 15	::::	18)	0 18 10 10
for £1 (to account)	:::::	:::::	. 85 55 c	:::	2 2		2 8 2 5 0 .
for £1 (to account)	::::	: : :	2 2 2	::	Ω	:	0.15
for £1 (to account)		::	<u>د</u> د	:) 1		g 0
for £1 (to account)		:				:	>
on			> <	:		•	_
on		:			0		> <
	*.	:	0 0	>	-	0 0 05	O
		:	>	119 16 11	9 4	o cro	· C
		: :	: :		0)	0
	Manawatu				Ŀ-	:	
Manawatu, Wirokino Bridge, £1 for £1 (to account) Otaki Bridge (to account) Foxton-Otaki (inland)	enna	:	0 18 0	:	0 18 0		18
Otaki Bridge (to account) Foxton-Otaki (inland)		:	:	•	:	1,500 0 0	0
Foxton-Otaki (inland)	Otaki	:		:		0	0
	Manawatu and Otaki	d Otaki	9	:	10	;	10
	*	:	S12 2 8		277 730	0.00	2 216
Bivers (contribution)		:	>	>	>	>	200,
Crossing at Levin	Manawatu	:	107 0 0	;	107 0 0	:	0
Road through Ihakara's Reserve (Levin)		:		:		150 0 0	0
Horowhenua 11B	Otaki	:	440 0 0	;	440 0 0		0
Waikanae-Te Horo	•	:	:		<	400 0 0	0 0
Ohau Low Level Bridge Horowhenus and	Waira- Otaki and Wairarapa	irarapa	510 0 0	0 0 :	70 0 0	•	70 0 0 510 0 0
Mount Holdsworth tracks Ditto Wellington Fruit.growers' Association Block	Masterton Otaki	: :	1.433 0 0	233 18 5	233 18 5	366 1 7	600 0 0
		<u>'</u>	,		.		.
Carried forward	•		663,813 10 10	58,974 19 1	722,788 9 11	49,092 0 1	771,880 10 0

TABLE NO. 4—continued. STATEMENT showing the New Expenditure on Roads, &c.—continued.

	STATEMENT showing	the NE	on KOADS, Total Net		Total Net	Liabilities on	Total Net
Name of Work.	County.	Electorate.	Expenditure to 31st March. 1898.	i	Expenditure to 31st March, 1899.	Authorities, Contracts, &c., 31st March, 1899.	Expenditure and Liabilities.
Brought forward. Roads, Bridges, Erc.—continued.	:	:	£ s. d. 663,813 10 10	£ s. d. 58,974 19 1	£ s. d. 722,788 9 11	£ s. d. 49,092 0 1	£ s. d. 771,890 10 0
WELLINGTON LAND DISTRICT—contenued. Paikakariki-Waikanae-Hadfield Waikanae to Hutt Road	Horowhenua and Hutt	Otaki	1,658 7 11 1,735 3 2	500 0 0	2,158 7 11 1,785 3 2		2,153 7 11 1,735 3 2
Akadarawa-walkanae Wungaroa to Walkanae Whiteman's Valley Boad	Hutt ::	: : :	4,523	0		٠ د	
Moonshine Belmont S.D. to Sections 236-237, Block X. Hutt to Lowry Bay	: : :	: : :	100 0 :: 290 0	:::	100 0 0 290 0 0	100 20 20 30 30 30	000
Mangaroa Valley Paikakariki-Paraparaumu (to account) Dania i Treste, Dona	::			::	::		000
Faparangi Estato Rosa Sections 48 and 56, Block V., Rimutaka Karori Rosa		Wellington Suburbs	153 1 8	:::	153 1 8	0	001
Korokoro Settlement Roads Ngauranga-Horokiwi		Otaki and Wellington Sub-	::	100 0 0	0	400 0 0	0
Otawhao Road Waitangi Bridge (Chatham Islands)	Waipawa	Pahiatua	400 0 0 326 14 10		0		400 0 326 14
Village Settlements (see also General) Chathan Islands roads To man to see a feet a f	::	::		$\begin{array}{c} 561 \ 12 \ 0 \\ 1 \ 10 \ 0 \end{array}$	869 5 6 1 10 0 510 10 7	142 10 7 98 10 0	1,011 16 1 100 0 0 510 10 7
Lo purchase toads to crown radus Grant in aid for bridge over Manawatu Biver Sundry roads. Wellington	:::	: : ; :		:::	12	:::	125
South End, North Island Main Trunk Railway Tools, &c.		:::	16 9	Ç	16 9		Η,
Miscellaneous and Engineering Total, Wellington Land District	: :	: :	- 1	60,488 14 8		51,448 7 1	
							
Nalson Land District— Ferntown-Pakawau	Collingwood	Motueka			250 0 0		0
Collingwood Deach Collingwood Quartz Ranges Aorere Vallev-Karamea	: : :	: : :	507 1 4,699 7	n	n c-	3	-4
Mackay Pass Road Takaka-Anatoki and Collingwood Takaka Vallov	* * *		364 0 0 4,733 6 5 9,000 0 0	:::	364 0 0 4,733 6 5 2,000 0 0	:::	364 0 0 4,733 6 5 9,000 0 0
Carried forward	: :		12,553 14 1	59 9 6	4	40 10 6	14 1
			-	,			

Brought forward ROADS, BRIDGES, ETC.—continued. Takaka Tramway Takaka-Biwaka and Collingwood Takaka-Biwaka Takaka Road Takaka Roanowaka Roudury Roads and bridges Wotupipi River Bridge Takaka River protective-works Wainea County roads and bridges Warnea County roads and bridges	County. Collingwood " " " " " " " " " " " " " " " " "	Motueka Motueka "	Electorate. Motueka	Expenditure to 31st March, 1898. 2 s. d. 12,553 14 11 1550 0 0 1,550 0 0 0 1,257 14 1 124 15 0 237 14 1 0 127 0 0 283 11 0 127 0 0 289 3 4	### Section	Expenditure to Sist March, 1899. £ s. d. 12,613 4 5 3,000 0 0 1,625 5 0 257 14 1 1 124 15 0 0 14 15 0 0 14 15 0 0 0 1 6 10 0 0 0 0 0 0 0 0 0 0 0 0 0	Liabilities on Authorities, Contracts, &c., 3lst March, 1899.	Total Net Expenditure and Liabilities. £ 8. d. 12,653 14 11
ntinued.	Jollingwood	Motue Gity of Oity of	ka	8. 14. 10. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	အဲ့ တ က	£ s. 613 4 000 0 625 5 257 14 124 15	s.	s. 14
mtinued.	Jollingwood	Motue	ka	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	70	000 0 625 5 257 14 124 15		1
:::::::::::::::::::::::::::::::::::::::	ollingwood " " " Naimea	Motue	ka	000000000000000000000000000000000000000	ಸ್ತ	0 2 4 1 5 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9		
nd Collingwood bridges a a ridge tective-works	Naimea	City of	i Nelson and Motueka	9 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10	2 4 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		0
	Naimea	Clity of	i Nelson and Motueka	111 100 000 000		14 15		1,625 5 0
bridges idge ective-works	Naimea	Clity of Motuce		11 0 0 0 0	:::::	15 6	•	14
ges e-works and bridges	Naimea	Giby of	I Nelson and Motueka	000	::::	9	•	15
e-works	Λaimea	City of	i Nelson and Motueka	000	::::	0	: :	9
e-works	Naimea	Oity of Motuce		0 m 0 0 0	::	П	52 14 6	70
e-works	Naimea	City of Motue		m 000	:	127 0 0	:	127 0 0
e-works	Naimea	City of		000		က	:	289 3 4
e-works and bridges	Naimea	City of Motue	 F Nelson and Motueka ka		:	:		0
e-works and bridges	Vaimea	City of Motue	i Nelson and Motueka	000	:		0 0 008	0
roads and bridges	Vaimea	Gity of Motue	i Nelson and Motueka	000	200 0 0		:	500 0 0
Marchan Vallav		Motue	ka	0	:		:	650 0 0
TATOTOTION A COTTO	:	::		<	:	0	:	100 0 0
Sandy Bay		:	:	>	:	0		300 0 0
Riwaka, Sandy Bay		_	:	0	:	0	100 0 0	0
Riwaka Bridge	:	:	:	_	:			
Riwaka Valley Road	••	:	:	0	•	0	:	0 (
Riwaka Valley Track	:	:	:	0	:	0	:	_
Little Sydney Road	:		:	0	:	0	:	100 0 0
Little Sydney Road, Riwaka		:	:	62 12 6	(:	_
Little Sydney Road and branch track		:	:		9 3 10	۱ ټ	4	
Rawson's Creek, Riwaka	•	:	:	•			24 13 0	- د
Brooklands Valley Road	:	:	:	178 6 6	1	ئ م	ì	1.78 0 0
Brooklyn Valley Road	"	:	:	> 0	-	9	31.00	
Motueka Elver Protection		:	:	٠ د	1000	100	0	> <
Tracks, Mount Arthur	:	:	•		5	ρģ		ά
Roads, Lower Moutere (nood-damages)		:	:	9 -	79 18 11	2	:	·
Motueka-walwera valley	:	:	:	7 -	2	- L	•	-1
Cachom Direct Bridge	:	:	•	· c		· C	: :	c
Beton Karames	:	:		0		0		0
Orinoco-Rosedale	: :			_	:	14	•	963 14 0
Lloyds Valley Road					•		•	0
Wangamoa			•	:	85 15 11	85 15 11	4	0
Nelson-Blenheim (Nelson end)	: :	Nelson	. :	:	:	:	0	0
Norris's Gully-Stewart's	:	Motueka	ека	:			150 0 0	,
Riwaka Valley	:	:	:	:	0 0 08	0 0 08	0	0
School Hill-Ngatimoti	:	:	:	:	:	:		100 0 0
Tadmor Valley	:	:	:	•		•	0	500 0 0
Carried forward	:		:	25,199 17 7	1,114 18 11	26,314 16 6	1,904 7 1	28,219 3 7
						_		_

TABLE NO. 4—continued.
STATEMENT showing the Net Expenditure on Roads. &c.—.

Brought forward Roads, Bridges, Frc.—continued. Upper Moutere Roads Croixelles-Elaine's Bay Matai Valley Bridge Wairoa (Brightwater Bridge) Wairoa (Brightwater Bridge) Wairoa Bridge, £1 for £1 (to account) Dove River Bridge Quail Valley Protected Roads Pigeon Valley—Moturaka Aniseed Valley Road Wakefield—Stanley Brook Wakefield—Stanley Brook Wairoa Bridge Waina West Okiwi-Roaga Port-Stoke, Rocks Road Maitai Road Bridge over Wairoa in Waimea District Wairoa Bridge Wairoa Bri	Motueka Nelson Nelson and Motueka Motueka Motueka and Gity of Nelson Gity of Nelson Motueka Motueka	Motueka d Gity of Nelson	£ s. d. 25,199 17 7 560 0 0 430 0 0 430 0 0 600 0 0 600 0 0 50 0 0 1,531 8 0	1,114 18 11	26,314 16 6 26,314 16 6 360 0 0 280 0 0 0 100 0 0 0 142 9 4 6 142 9 4 6 142 9 0 0 160 0 0 1,53 8 0	16 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
trice : : : : : : : : : : : : : : : : : : :	Motueka Nelson Nelson Nelson and M Motueka Motueka and (Motueka and (Motueka and (outeka	00004 000000	80 H	. 00004800000	0 0 0 0 0	550 0 2250 0 2250 0 2250 0 2250 0 2250 0 2200 0 2200 0 200 0 0 0 0
dge) (to account) aimea District uller	Nelson Nelson and B Motueka Motueka and C Gity of Nelson Gity of Nelson Motueka	oueka	00004 000086	≈ • • • • • • • • • • • • • • • • • • •	. 00004800000	0 0 0 0 0	100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
dge) (to account) aimea District uller	Nelson and Motueka Motueka and C Motueka and C Motueka and C	Outeka	00004 000080	, m Q H	00004800000	0 0 0 0	2200 0 2250 0 2250 0 2250 0 2200 0 2200 0 250 0 550 0
dge) (to account) aimea District uller	Motueka Motueka Motueka and (Motueka and (Motueka and (Foundsham	00004 000080	. e. O ↔	00004800000	0 0 0 0	2550 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
aimea District	Netson and Motueka Motueka and (Motueka and (Oity of Nelson Motueka Motueka	Dity of Nelson	00004 000080	. e O H	00004800000	0 0 0 0	2250 2250 2200 2200 200 200 200 200 200
aimea District	Motueka and (Motueka and (Gity of Nelsor Motueka Motueka	jity of Nelson	00004 000080	. eo O →	00004800000	0 0 0	2200 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
aimea District	Motueka and (Gity of Nelson Gity , , , , , , , , , , , , , , , , ,	ity of Welson	0000000	, so H	0004800000	0 16 0	2200 1150 1200 1100 1100 1200 1200 1200
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aimea District	Motueka and (Gity of Nelson Gity of Melson Motueka	Jity of Nelson	000000	80 H	m 0 0 0 0 m	16 0	200 7700 100 50,
aimea District	Motűeka and (Gity of Nelson	Dity of Nelson	000000	0 +	00000	0 9	700 100 100 50 531
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aimea District	Otty of reference Motueka	:::::	0000	+	၁၀ၹ		200 531 531
aimea District	Motueka Motueka "	::::	000	-	သ	(- 231 201
aimea District	Motueka "	: : :	0	-	5	,	7007
ad the mainea District ad the main waith the main and the main and the main akawau	Motueka	:	=		-	100 100	2004
ad t t ley Valley Valley Iiil iiil iiii	::		18	•	18	2	7-1
ad	:	:	0		0		150
ley Valley Ye Buller Iill Iiles Ines Ines Ines Ines Ines Ines Ines In		:	1,032 18 9	20 0 0	1,082 18 9	20 0 0	1,132 18
ley Valley Yalley Itili Iti			0	:	0	:	160 0
Valley Yet Buller Illi Instantant		: :	0	: :	0	: :	
ry to Buller	:	:	100 0 0	•	100 0 0		
гу to Duller Hill Bea Ini Rea Reawau	:	<i>:</i>	•	:	,	300 0 0	300
lea Jui 'akawau	ingwood	:	5,48Z 16 11	:	5,482 16 11	::1	5,482 16 11
lea	*	:	ì	:	,	>	
okihinui-Karamea aramea-Mokihinui anity Creek-Ngakawau	:	:	322 11 6		355 11 6	:	355 11
aramea-Mokihinui anity Creek-Ngakawau	:	:	200 0	:	200	:	
anity Oreek-ngakawau	, i.e. ct	:	1,812 8 6	:	1,812 8 6	:	1,812 8
	buller	:		:	•		
Three south waters	:	:	200 0 0	:	0000	0 0 001	350 0
Seddonville Cemetery		: :		: :	>	:	
Fairdown-Waimangaroa		:	. :		: :		: :
	•	:	18	:		:	17,725 18
: : : : : : : : : : : : : : : : : : : :	Grey	:		:	1,115 16 4	:	1,115 16
Hox Kiver Bridge	:	:	0 0 001	:		:	100 0
Carried forward			59.028 19 3	1.507 8 8	60.536 2 11	3 719 9 4	64 948 5

TABLE No. 4-continued.

		j									The second name of the second na
Name of Work.			County.		Electorate	6	Total Net Expenditure to 31st March, 1898.	Net Expenditure during 12 Months ended 31st March, 1899.	Total Net Expenditure to 31st March, 1899.	Liabilities on Authorities, Contracts, &c., 31st March, 1899.	Total Net Expenditure and Liabilities.
Brought forward Roads, Bringes, erc.—continued	i.		:		:		£ s. d. 59,028 19 3	£ s. d. 1,507 3 8	£ s. d. 60,536 2 11	£ s. d. 3,712 2 4	£ s. d. 64,248 5 3
ELSON LAND DISTRICT—continued. Lyell Cemetery Road Karamea-Wangapeka	: :	Buller Waim	Buller Waimes and Buller	•	Buller	:	633 17 10	:	633 17 10	75 0 0	75 0 0 633 17 10
Wangapeka-Wanganui Belgrove-Westnort-Reefton		: :		: :	pud	 Buller	191		192	: :	225
Bridge over Granity Creek	· ·	Inai	Inangahua	: :			762 19	٠.	762 19		762 19
Bridge over Owen Greek Mangles	: :			:	*	;	1,797 10 1	:	$1,797\ 10$ 1	• 1	$1,797\ 10\ 1$
Larry's Creek Bridge	: :		:::	: :		: :	436 19	•	136 19		436 19
Bridge over Matiri Slins Road	: :	•		:	:	:	2,841 16 0	:	2,841 16 0	100 0 0	$2,841\ 16\ 0$
Upper Buller Road	: :		: :	: :	: :	: :	246 0 1	. :	246 0 1)	0
Hampden-Maruia	:		: .	:	:	:	50	:			10,507 5 9
nampaen Cemetery-murchison Horse Bridge over Matakitaki	::		: :	: :		: :	1,413 4 4	: :	1,413 4 4	-	⊃ 44
Expenses taking poll re Buller Bridge	•			:	:	:		•		:	40
bridge over inanganua, builer Junction Inangahua Bridge. Maintenance			: :	:		:	8,804 2 7	•	8,804 2 7	: :	8,804 2 7
Boatmans	: :			: :	: :	: :	19	: :	344 10		10
Bridge over Inangahua at Reefton	:	•	:	:	:	:		:	2,099 6 7	:	2,099 6 7
rection—martinanganua Bridge over Little Grey at Devery's			: :	: :	Grev	: :		: :		: :	3,870.18
Bridge over Ahaura	:	Grey	v	:		:			14	:	14
Abaura-Haupere	:	•	:	:	:	:	::	175 10 0	75 10	24 10 0	200 0 0
Cobden—Seventeen-mile Diggings	: :		: :	: :		: :	1.678 11 0	: :		: :	
Grey Valley-Teremakau	:		:	:		:	C3	:	63	•	C 7
Ahaura (Masons)-Haupiri	:		:	:	:	:	7	•	2,083 9 6	:	2,083 9 6
Ahaura-Kopara and Amuri	· ·		: :	: :	• •	: :	ç —	: :	q	: :	3 —
Blackball Cemetery (clearing and fencing)	ing)		:	:		:		:		0 0 09	0
Bridge over Waiau at Hanmer Plains	:	. Amuri	ıri	:	Ashley	:	_	:	န္	::	18
Hanner District Works at Hanner	•		:	:	:	:	9 490 11 8	:			
Works at Hanmer and Sanatorium	::		::	: :	: :	: :	951	728 3 3	679	1,271 16 9	951
Hanmer Road Bing Book (2014)	01 \$00 01		:	:	:	:		:	608 19 0		608 19 0
Waiau Bridge repairs	. 101 201		: :	: :	: :	: :	7 7 3	1.000 0 0	<u>.</u>	1,000 0 0	2 200
Bridge over Waiau, Amuri County	:		:	:	: :	: :	11,640 14 11	:	11,640 14 11		14 1
Culverden-Hanmer Plains	:		:	;		:	•	:	•	100 0 0	100 0 0
Carried forward	:	•	:		:		165,319 7 2	7,944 3 6	173,263 10 8	6,643 9 1	179,906 19 9

		S we that datement one	or recepto,	more consumers.			
Name of Work.	County.	Electorate.	Total Net Expenditure to 31st March, 1898.	Net Expenditure during 12 Months ended 31st March, 1899	Total Net Expenditure to 31st March, 1899.	Liabilities on Authorities, Contracts, &c., 31st March, 1899.	Total Net Expenditure and Liabilities.
Brought forward ROADS, BRIDGES, ETC.—continued.	: :	:	£ s. d. 165,319 7 2	£ s. d. 7,944 3 6	£ s. d. 173,263 10 8	£ s. d. 6,643 9 1	g s. d. 179,905 19 9
Nelson Land District—continued. Nelson-Reefton and Greymouth Bridges	Waimea, Buller, Grey, and	Motueka, Buller, and Grey	13,731 15 1	:	13,731 15 1	:	13,731 15 1
Nelson, Westport, Greymouth, and Hokitika	Ditto	Gity of Nelson, Motueka, Buller, Grey, and West-	65,490 8 5	:	65,490 8 5	:	65,490 8 5
Belgrove-Tophouse-Tarndale Maruia-Amuri Grov Valley 202 Olarka-Marnia	Waimea and Amuri Inangahua and Amuri	Motueka and Ashley Buller and Ashley Buller and Grav	5,926 19 10 1,653 4 1	164 4 10	6,091 4 8 1,653 4 1	239 14 2	6,350 18 10 1,653 4 1
uoș			10	: : :	10	: : :	
French Pass, Admiralty Bay, and Croixelles Tracks Sundry Roads and Bridges, Nelson	Sounds	Nelson		::	0	200 0 0	00
Purchase of Roads To Purchase of Roads through Grown lands Tillora Sattlements from also Comments	::	::		::	20 0 0 791 0 0		20 0 0 791 0 0
Miscellaneous and Engineering	: :	::	2,435 17	62 0 0	2,497 17	108 0 0	17
Total, Nelson Land District	:	:	339,356 17 3	8,170 8 4	347,527 5 7	7,391 3 3	354,918 8 10
Marlborough Land District— Beatrice Bay-Kenny's Isle	Sounds	Wairau	42 15 6	16	12		15
Hakahaka-Opihi	:	;		56 2 0	56 2	81 5	0;
Anakoa-manaroa Wet Inlet-Crail Bay	:::	: :	14	מ	n	24 10 9 150 0 0	_
Manaroa-Okoha	:	:	320 9 6		664 14 6	51 12	
Manaroa-Hopai	: :	: :	19	11	10	သူထ	19
Kenepuru-Anakoa Grail Bay Traok	:	:	67 0 2	365 2 10	432 3 0	34 17 2	467 0 2
Waitaria-Manaroa		•	, -	2	1 5	9	ם מ
Kenepuru-Manaroa			- 01	194 18 0	- 1		- 0
Arapawa-Te Awaiti			8		7 ~	63 6 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	n &
Tracks, Queen Charlotte Sound			41.	13	203 7		399 14
Tracks, Pelorus and Queen Charlotte Sound Torea Neck	::		1,171 19 U	14 3 6	0.171 19 0 $64 3 6$	35 16 6	1,171 19 0 $100 0 0$
Carried forward	•	:	4,057 0 5	1,449 3 7	5,506 4 0	1,110 16 5	6,617 0 5
	-	1					

		ဝိ	County.		Electorate.	Expenditure to 31st March. 1898.		during 12 Months ended 31st March, 1899.	Expenditure to 31st March, 1899.	Authorities, Contracts, &c., 31st March, 1899.	Expenditure and Liabilities.
Brought forward ROADS, BRIDGES, BTC.—continued.	:		•		:	£ s. 4,057 0	. d.	£ s. d. 1,449 3 7	£ s. d. 5,506 4 0	£ s. d. 1,110 16 5	£ s. d. 6,617 0 5
Mareborough Land District—continued. To Mobie Ray-Portson Ray		Sounds		Wairan				7	10	13	355 2
OhinitabaTo Mehia	:		:		:	71 179	10	0 6 88	804 19 10	16 18 0	321 17
Tracks to Mahan Sounds	:		:	•	:	•		1	6	ì	
Poloring to Oneen Cherlotte Sound	:	*	:	•	:	-		:	9	•	
Pour Hour Mark West Charles Sound	:		•	•	:			ď	} <	12	784 17
ory meaus—washanionga and fiction	:		:	•	:	11 400			# ~	0 0 0	
watamonga-rort Underwood Track	:				:			- (4 (7 5	
Robin Hood Bay-Ocean Bay	:		:	•	:	0 Zc :))	10' y 3	159 9 3		0 207
White's Bay-Port Underwood	:	•	:	•	:	267 0					
Kenepuru-Endeavour Inlet	:	Ł	:		:	:		:	:	0	0 091
Okoha-Titirangi	:	2	:	•	:	:		:	:		7007
Onahau Bay-Kenepuru	:	*	•		:	:		:	:	0	
Piripana Neck-Cufting Sound	:		:	•	:	:		:	:	0	
Torea Bay Wharf-Road	:		:	: *	:	:	,	:	:	0	
Waitaria-Te Manka a main		: 1	;						:	0	
Tawhitinni-Rai		. 1	: :	Nelson	: ;	516 14			556 15 8	159 18 10	_
Nadia Ban Hamalock	:				•		0		6	α	
THE DESTITEMENT OF THE PROPERTY OF THE PROPERT	:	2	•	•	:			7	190 14 10	1 10	
Thervey's Day-relotus Bound	:	•	:	•	:	:		#	#	ə c	
Hairy Bay-North-west Bay	:		:		:	:		:	:	-	0 0 0
Tennyson Inlet	:	,			:			:	:	0	
Mahakipawa-Kenepuru	:	Sounds and Marlborough	farlborough.	. Wairau	:		9 10	;		:	
ni-Ronga and Wangamea Roads	:	Marlborough and Waim	and Waime	a Nelson	:				53 11		53
Nelson-Havelock and Bridges	:		8	•	:	1,925 19	9	425 15 6	_	123 5 0	2,475 0
Brown River Bridge	:	Marlborough	:		:			:	0	:	
Alfred Creek Bridge	:	•	:	•	•	200		:	0	:	200
Ronga Valley Road		: 1		: !				•		250 0 0	
Peloris District and Rai Valley					•	660 1			360 14		
Dolowing Distuict and Dai Waller	:	*	:	•	:			:	10		1007
storius Dismitch and Ival Valley	:	•	:	•	:	777		:	DT 77	:	777
Whar at Havelock	:	*	:		:	441 0		,	۰ د		
Picton-Queen Charlotte Sound	:	•	:	Wairau	:	538 3	 m	173 1 5	4	28	
Double Bay	:	*	:	•	:	. 109 8	·		œ	10 0 0	119 8
Starborough		. 3	•		•				284 5 8	14	
Pieton_Waikawa	•	•		•	•	151 16	101	0 9 26	0,	14	
South Dans	:	*	:	•	:			•	1	1	
AA COLL 1 dess	:	•	:	•	:			5		3 0	86
Grove whar and Shed	:	*	:	•	:	87 13	 ص	0 07 0	O 22 2	T	
Tophouse Road	:	•	:		:			:			
Havelock-Tuamarina Road	:		:		:			:	0		0 008
Kaituna-Tuamarina	:	•	:		:				0	150 0 0	200
Sundry Roads and Bridges, Marlborough			•		•			:	508 0 11	•	208 0
Onamalutu Valley	:		:		•	200 0	0	:		:	200 0
							1		,	100	
Common Common	-			_		7 OOL 27	0	0 010 0	2002 07	2 000 7	KO KO 1

TABLE NO. 4—continued.
EMENT showing the New Expendentials on Boads. &c.—contin

County County Electronse							Total Net	Net Expenditure	Total Net	Liabilities on	Totol Wat
Marlborough Wairau 46,190 5 3 8,312 8 0 6	Name of Work.		County.		19	octorate.	Expenditure to 31st March, 1898.	auring 12 Months ended 31st March, 1899.	Expenditure to 31st March, 1899.	Authorities, Contracts, &c., 31st March, 1899.	Expenditure and Liabilities.
Marlborough Wairau 200 0 0 0 200 0 0 0 200 0 0 0	Brought forward ROADS, BRIDGES, BTC.—continued.	:	:			:	း က	°, ∞	£ s. d. 48,502 13 3	£ s. d. 4,088 19 6	£ s. d. 52,591 12 9
El for £1 In the £1 In the £2 El for £1 In the £2 In the £3	Blenheim-Havelock Ferry-house		orough	:	Wairau	:	0	;	200 0 0	:	200 0
### 15 15 15 15 15 15 15 1	Bartlett's Creek	•	:	:	à	:	0	:	0	: :	200 0
### Property of the Property o	Spring Creek Bridge	<u>.</u>	:	:	;	•	200 0	;	0	:	200 0
### State of the control of the cont	Spring Creek Whari	-	:	:	ł	:	95 0	,		. 1	95 0
## 4,822 8 3 400 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Drain Wairau Inver-Gravel-più Omaka Bridge contributions	:	:	:		:	066 14	n Y	39 13 0	0 4 0 0	7
## 362 8 3 2416 2 100 0 0 439 8 0 1,300 0 0 688 9 8 1,300 0 0 100 0 0 1,300 0 0 100 0 0 1,000 0 0 100 0 0 1,000 0 0 100 0 0 1,000 0 0 100 0 0 1,000 0 0 100 0 0 1,000 0 0 100 0 0 1,000 0 0 100 0 0 1,000 0 0 100 0 0 1,000 0 0 100 0 0 1,000 0 0 100 0 0 1,000 0 0 100 0 0 1,000 0 0 100 0 0 1,000 0 0 100 0 1,000 0 0 100 0 1,000 0 0 100 0 1,000 0 0 100 1,000 0 0 100 1,000 0 0 100 1,000 0 1,000 0 1,000 0	Wairau River overflow subside, £1 for £1	: :	: :	: :	a :	: :	#T 007	o C	-	4 ⊂	399 14 9 000 0
89 Kaikoura 100 0 0 24 16 2 2 16 2 2 2 16 2 2 2 2 2 2 2 2 2 2	Bridge over Wairau near Blenheim	::	: :	: :		: :	4,362 8	>) oc	3	
89 Kaikoura 1900 0 0 439 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bluff Cove and Port Underwood	:	:	:		:	:	16	24 16	75 3 10	_
1,300 0 0 439 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Footbridge, Taylor River	:	:	:		:	100 0		0		100 0
8,484 11 1 190 18 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Blind Biver Road	:	:	•	ŧ	:	:000	တ	φ	150 12 0	590 0
8,484 11 1 1 190 13 0 1100 0 0 0 1100 0 0 0 1100 0 0 0	Anskiwi_Cross	:	:	•	4	:	1,500 0	-)	Ç	1,600 0
8 4 4 8 4 11 1 1 190 13 0 1 100 0 0 0 1 100 0 0 0 0 0 0 0 0	Awatere Railway and Traffic Bridge	: :	: :		* :	:	:	מ	08 y 3	131 10 9	0 007
8,484 11 1 190 13 0 1,000 0 0 1100 0 0 1,000 0 0 1100 0 0 1,000 0 0 1100 0 0 1,000 0 0 1100 0 0 1,000 0 0 1100 0 0 1,000 0 0 1100 0 0 1,000 0 0 1100 0 0 1,000 0 0 1100 0 0 1,000 0 0 1100 0 0 1,000 0 0 1100 0 0 1,000 0 0 1100 0 0 1,000 0 0 1100 0 0 1,000 0 0 1100 0 0 1,000 0 0 1100 0 1,000 0 0 1100 0 1,000 0 0 1100 0 1,000 0 0 1100 0 1,000 0 0 115 5 1,000 0 0 115 5 1,000 0 0 115 5 1,000 0 0 115 5 1,000 0 0 1100 0 1,000 0 0 1100 0 1,000 0 0 1100 0 1,000 0 0 1100 0 1,000 0 0 1100 0 1,000 0 0 1100 0 1,000 0 0 1100 0 1,000 0 0 1100 0 1,000 0 0<	North Bank		: :	: :			: :	• :	:	-	0000
Ge 15,000 0 190 130 0 1,000 0 100 0	Awatere Valley Road	:	:	:		:	8,484				
86 Kaikoura 1,000 0 100 0	Havelock-Blenheim	-	:	:		:	:	13	13	9 7 0	200
Ge Kaikoura 18,633 0 10 0 0 100 0 0 0<	Jordan Bridge, Awatere		:	:		:	1,000 0			•	
ge Kaikoura 18,633 0 10 70 15 5	Awatere Kiver (Taylor-Kedwood Pass)	:	:	:	•	:	:	0	100 0 0		
ge Kaikoura Ashley 18,633 0 10 70 15 5	Maddocks and Houder Cutting Mahakinawa Motanii.	:	:	:	à	:	:	:	:		_
ge Kaikoura Ashley 18,633 0 10 70 15 5	Molesworth—Jollie's Pass		:		k :	• •	:	•	:		0 001
89 Kaikoura 18,633 0 10 70 15 5	Pember's Road-Pukaka	-	: :	:		: :	: :	: :	: :	0	_
G9 Kaikoura 18,683 0 10 70 15 5	Picton-Blenheim (Mudford Flat)	:	:	:	¥	:	:	:	: :	0	
ge Kaikoura 18,633 0 10 70 15 5	River Conservation (Omaka Ford)	:	:	:	*	:	:	:	:		100 0
Ge Kaikoura 18,633 0 10 70 15 5	Saltwater Creek-fulton's Gate)	:	:	:	*	:	:	:	:	0	_
Se Kaikoura Asbley 18,633 0 10 70 15 5	Three-bridges Flat-Bikiranga (to account)	: :	: :	:		:	:	•	:	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20 0
Se Raikoura 18,633 0 10 70 15 5 1 1 18,633 0 10 70 15 5 1	Waihopai River (protection)	: :	: :				: :	: :	: :	-	900
Bridge Raikoura Ashley Bridge 18,633 0 10 70 15 5 6 7 7 1	Okiwi-Ronga	:	:	:	2	:	:	: :	: :		_
Bridge Raikoura Ashley 80,031 19 8 5,034 8 7	Havelock Mudflat Bridge	:	:	:	Nelson	:	:	0	55 0 0	•	_
Bridge Raikoura Ashley 80,031 19 8 5,034 8 7	Maner's rist bridge and road Ometer-Tuntesfield Bridge 21 for 21	:	:	:	Woiren	:	:	:	:	0	
s " Ashley Ashley 18,633 0 10 70 15 5 80,031 19 8 5,034 8 7	Okaramio Creek Bridge	•	: :	:	Mailau	:	:	•	:		
s " Ashley Ashley 18,633 0 10 70 15 5 80,031 19 8 5,034 8 7	Rocky Creek Bridge	. :		•	•		: :	•	:	> <	100
s " Ashley Ashley 18,633 0 10 70 15 5 80,031 19 8 5,034 8 7	Wairau River Bridge	:	:	:		:	:	: :	: :	0	
10e Bridge Raikoura 18,633 0 10 70 15 5 80,031 19 8 5,034 8 7	Wakamarina and Kaituna Bridges	-:		:		•	:	:	:	0	
80,031 19 8 5,034 8 7	Awatere Bridge, Limestone Gorge Bridge over Clarence River, Clarence Bridge	Kaiko	, ura	::	Ashley	::	18,633 0	15	18,703 16 3	200 0 0 129 4 7	200 0 0 18,833 0 10
	Carried forward	-:	:			•	19	α	85.066.8.3	9 444 18 11	04 871 7
))	2	

	TO	TUTMETER	SHOWING .	THE TABLE	TAPENDITORE	OH TWOADS,	&cconsummen.			
Name of Work.		County.		Elec	Electorate.	Total Net Expenditure to 31st March, 1898.	Net Expenditure during 12 Months ended 31st March, 1899.	Total Net Expenditure to 31st March, 1899.	Liabilities on Authorities, Contracts, &c., 31st March, 1899.	Total Net Expenditure and Liabilities.
Brought forward ROADS, BRIDGES, ETC.—continued.	:	:	÷		:	£ s. d. 80,031 19 8	£ s. d. 5,034 8 7	£ s. d. 85,066 8 3	£ s. d. 9,444 18 11	£ s. d. 94,511 7 2
MARLISOROUGH LAND DISTRICT—commuted. Road Masserye "A". Commute Program Accommodation bond	Ka	Kaikoura	:	Ashley	:	:	:	:	270 0 0	270 0 0
Kaikoura-Clarence	::	: :	: :	2 2	::	14,424 6 1	::	14,424 6 1	> '	9
Cribb Creek Hundalee Block	:	:	:	· ·	:	5 996 6 0	1 503 14 0		100 0 0	7.500 0 0
Hapuka and Puhipuhi Rivers	: :	: ;	: :	: :	: :	>		350 18 5	,	850 18
Reserve West of Kahautara Kahautara-Conway	::	::	: :	: :	: :	3.069 11 9	7.381 1 4	10,450 13 1	300 0 0 1,689 1 1	300 0 0 12,139 14 2
Pine Valley Block	:	:	:	: >	:		:	:	0	0
Kaitao Block Puhipuhi Block	,: :	: :	: :	8 1	: :	::	: :	: :	900 000 000 000	900 900 0 0
Kaikoura-Waiau	Ka	Kaikoura and Amuri	muri		::	33,630 11 11	:	11	, ,	630 11 1
Blenheim-Kaikoura-Waiau Miscellaneous and Engineering	::	:	:		: :	140 16 4	522 10 0 40 19 11	$522\ 10\ 0$ $181\ 16\ 3$	$\begin{array}{c} 977 \ 10 \ 0 \\ 159 \ 0 \ 1 \end{array}$	1,500 0 0 $340 16 4$
Total, Marlborough Land District	;				:	137,293 11 9	14,833 12 3	152,127 4 0	14,040 10 1	166,167 14 1
					*					-
Westland Land District—	-					;		,		,
Bridge over Grey at Cobden Greymonth-Arnold	Grey	бе	:	Grey	:	13 10 0	:	13 10 0 5 058 1 5	:	13 10 0 5.058 1 5
Clarke River Road	::		: :		: :		: :		150 0 0	
Stillwater-Maori Gully Paeros-Teremakan	:				: :	1,869 2 0	: :	1,869 2 0	• ;	1,869 2 0 500 11 2
Marsden-Paroa	: :		: :	: :	: :	œ	: :	8		œ
Stillwater Bridge Marsden-Maori Creak	:	•	:	:	:	cr.	:	cr.	150 0 0	150 0 0 2 538 3 0
Hohonu Bridge	::	: :	::	Westland	::		::	500 0 0		500 0
Greenstone Bridge Greenstone-Lake Brunner	:	•	: :		:	2.756 5	• ~		200 0	500 0 0 2.756 5 6
Pounamou-Teremau	: :		: :		: :	684 5		684 5		684 5
Greenstone-Teremakau	:	:	:	ł	:	1,103 13	11 19 0	212	119 5 4	1,234 17 9
Bell Hill-Mount Alexander	::	: :	: :		::	1,360	: :	1,380 10 0	::	28
Mount Howe Track	:		:		:	100 0		۰ ب	,	0 001
Bridge over Teremakau, Kumara	: E	Grey and Westland	8 n d	Guottond Worthows		1,379 18 0	5 3 8	1,385 1 6	145 16 6	1,530 18 0
Grey County (flood-damage)	:.:	. .	: :	Westland	·· primite	300 0	::			300 0
Carried forward	:	•			:	123,235 5 2	17 2 6	123,252 7 8	1,065 1 10	124,317 9 6

TABLE NO. 4—continued. STATEMENT showing the Net Expenditure on Roads, &c.—continued.

		* ** ** ** ** ** ** ** ** ** ** ** ** *		STITMOTTO	TONT OTTO	TALBINDITONE	OH LVOADS,	weconsessesses.			
Name of Work.	,		County.		Elect	Electorate.	Total Net Expenditure to 31st March, 1898.	Net Expenditure during 12 Months ended 31st March, 1899.	Total Net Expenditure to 31st March, 1899.	Liabilities on Authorities, Contracts, &c., 31st Warch, 1899.	Total Net Expenditure and Liabilities.
Burnaht formand			* 4				£ s. d.	£ s. d.	£ 8, d.	£ 8. d.	£ s. d.
DIOUGH, DIWELL ROADS, BRIDGES, BTC.—continued Weser and LAND DISTRICT—continued	gđ.		:		:		>	4	-	4	n -
Kumara-Beach	•	Westland	:	:	Westland	:	2,000 0 0		2,000 0 0	•	2,000 0 0
Stafford-Waimea	:	•	:	:		:	0 ;	66 5 1	ι Ω	333 14 11	0
Waimea Bridge	•		:	:	*	:	20.7	•	a c	:	207 12
Junction Line Bootton Hobitibe and Ross	*			: :	t :		5,982 18 5	:		:	8,923 y 5
Three-Mile Creek Bridge		: :	: :	: :		: :	200	: :		: :	200
Barn Bay Track	:	*	:	:	2	:	150 10 10	:	150 10 10		10
Hokitika Flat	:	•	:	:	2		:	: 0	٥		0
Haast-Blue Kiver	: :		: :	: :	٤ :	: :	: ;	o .	0	100 17 0	100 0 011
Paringa River Road	: :		:	:	: 2	•	:	:	: :	0	0
Waitaha-Rakapotahi	•		:	:		:	•	:	•	0	0
Little Waitaha Bridge	(*****	•	: •	:	z	:	;	:			0
Waltana, Wanganui, &c. (stock-uilveis muss) Hungerford's Bridge	(sann	. :	. :	: :	2 2	: :	230 0 0	350 0 0	580 0 0	>	100 0 0
Hungerford's Bridge (repairs)	:	: 2	:	:		:	:				
Hokitika-Christchurch	:	۵.	:	:	ı.	:	4.	4,652 13 11	φ,	2,127 17 3	151,807 5 3
Lower Arahura Bridge (repairs)	:	•	:	:	2	:	248 13 2 500 0 0	•	248 13 2	9	300 0 0
Otira Poli	•	k :	: :	: :	: :		•		>	350 0 0	0
Hokitika-Blue Spur	: : 	: :	:	;		•	့တ		ന	,	က
Woodstock-Mahinapua	:	•	:	:	2	:		90 16 11	Ξ:	109 9 4	0;
Kanieri Bridge	:	*	:	:	t :		1,088 11 10 9,843 16 10	:	1,088 11 10 9,843 16 10	0 0 09	1,088 11 10
South Creek-Main Line	: : 	* *	::	: :	.	: :			17	•	14
Kokatahi	:		:	:		:	c	9	ç	1	
Dawson's Road Bloom's Boad)		٠.	: :	: :			386 16 7	148 2 6	534 19 1	20 17 6 21 17 6	274 10 0 556 16 7
Kokatahi Run-Hokitika River	: :	: :	: :	:	: 2:		970 0	1	970	i	0 046
Bridge over Donnelley's Creek	:		:	:		:		:		•	133
Hokitika Valley	:		:	:	2	:	2	:	936 19 0	:	501 0 0
Whiteombe Valley Track (Kokatahi)	: :		: :	: :	2 2	: :	7	282 3 10	13	517 16 2	۲
Mount Bonar-Poerua River	•	: 2	:	:	: 2	:	0		0		0 006
Waitaha River, bridges and approaches.	:		:	;		:	-	•	-	200 0 0	200 0 0
Wataroa and Waitangi Taona	: :	:	::	: :	: :	: :	1,500 0 0	::	1,500 0 0	: :	1,500 0 0
Okarito River Bridge	:	è.	:	:	2	:	20010	2007	070		
Great South Foad Hokitika Southward	::		::	: :		: :		· · · ·	3	4	01 00#
							,			'	
Carried forward	:		:		,	•	304,502 3 8	7,214 0 4	311,716 4 0	8,151 0 11	319,867 4 11

Name of Work.		County.		Elec	Electorate.	Total Net Expenditure to 31st March, 1898.	Net Expenditure during 12 Months ended 31st March, 1899.	Total Net Expenditure to 31st March, 1899.	Liabilities on Authorities, Contracts, &c., 31st March, 1899.	Total Net Expenditure and Liabilities.
Brought forward ROADS, BRIDGES, ETC.—continued.		:			:	£ s. d. 304,502 3 8	£ s. d. 7,214 0 4	£ s. d. 311,716 4 0	£ s. d. 8,151 0 11	£ s. d. 319,867 4 11
Westland Land District—continued. Lake Mapourika	Westland	:	:	Westland	:	438 13 9		13		-
Lake Wahapo-Waitangi River (widening)		:	:	*	:		299 10 9	299 10 9	6 0	300 0 0
Franz Josef Glacier		: :	: :	t 2	: :	165 15 11	77 19 5	12	262 0 7	505 15 1
Mapourika-Gillespies		:	:	: :	:		;	بن ا	:	30
Waikukupa—Cook's River Flat	t	:	:		•	1,000 0 0		Ο α	76	1,000 0 0
Gook's Valley-Karangarua		: :	: :		: :	2	Cr. 0 12 4	Cr. 0 12 4	20 0 0 0 0 0) <u> -</u>
Gook's River Flat		: :	: :		::	ςί		18	•	18
Gook's River (upper)	ŧ	:	:	•	:	106 0	138 11 3	Ξ.	11 8 9	0 1
Gillesnie's Beach-Manakai.an	ŧ	:	:		:	t ene	•	(,	# 1. BOG
Hunt's Beach-Manakai-au		:	:	ŧ	:	149 3 0	:	30	0 0 091	3.00 S
Hunt's Beach-Makawhio	*,	:	:	è	:	539 1	:	н !	:	,
Jacob's River-Bruce Bay		:	:	Ł	:		:	85 1	:	7
Maktawnio-iylanitani		:	:	.* .*	:	1,200	:	N C	:	1,206 2 11
Moeraki Grossing-Otomotii	۵.	: :	:	3: 4 .		1,510 18		<u>~</u>	• ;	α α
Mahitahi-Haast		: :	: :		: :		: :		: :	-
Haast Pass Track		:	:		:	5,804 17		18	-	17
Turnbull River Road	*	:	:	Ł	:	475	157 11 9	S	142 8 3	0
Cascade Valley Koad	ŧ	:	:	ì	:	47 15 1	:	47 15 11	:	47 15 11
In the County of Westland		: :	: :	.	: :	1.980 0	: :	9 0	: :	2
Westland Ferry-service (maintenance)		::	: :		: :	532 0		0	::	0
Westland County roads	•	:	:	ŧ	:	260 0	150 0 0	0	:	0
Westland, general Miscellaneous and Engineering		::			::	2,613 13 3 972 5 11	34 10 0	2,613 13 3 1,006 15 11	65 10 0	2,613 13 3 1,072 5 11
Total, Westland Land District		:		٧	:	354,118 2 3	8,683 15 5	362,801 17 8	9,530 13 6	372,332 11 2
A seminanters . Last Dramaname	• .				:					
Charles on Distance . Comments of the Charles of th	Cheviot	:	:	Ashley	:	3,536 12 1	:	3,536 12 1	:	3,536 12 1
The Unevior Theore The Account						002				
Chevior coads	: :	: :	: :	2 2	::	4	::	_	::	4,323 10 7
Dray-road through Cheviot hill country	•	:	:		:	100 8	•	100 8 0	:	
Carried forward		:			:	8,660 10 8	:	8,660 10 8	:	8,660 10 8
	+		-					_		

9—D. 1.

TABLE NO. 4—continued. STATEMENT showing the Net Expenditure on Roads, &c.—continued.

Brought forward Brought forward CANTERBURY LAND DISTRICT—continued. Floster's Cutting, Greta, Cheviot Port Robinson (groins)	County.	Electorate.	Total Net Expenditure to 31st March 1898.	Net Expenditure during 12 Months ended	Total Net Expenditure to	Liabilities on Authorities, Contracts, &c	Total Net Expenditure	
ned.		_			31st March, 1899.	31st March, 1899.	and Liabilities.	1
::	:	:	£ 8. d. 8,660 10 8	ક. . ક. તે.	£ s. d. 8,660 10 8	ત્યું : જે :	£ 8. 8	ئ ھ
:	. :	Asbley	•	:	•		150 0	0
	•	:			C3			0
Waipara-Cheviot Ashley		: "	200	100 0	300	150 0 0	450	٠ ر
To Upper Ashley over Okuku Pass	:	: :	41 (:	41 (:		20 0
Blackhills Road	:	:.	0 900	:		:	0 900 e	ی ر
Oxiora Dush-Opper Asmey	:	:	4 5	:	200 2	:	784 1	٦ -
To deferred narment lands Teviotidale	•			:		:	4	
Ashley Gorge Drain	: :		4	: :	1 :	20:00	0 03	9
Glentui Road			683 5 4	: :	683 5 4		683 5	4
Broomfield Block		: :	,	: ;	ı	300 0 0	300	0
Mount Grev Downs	:		468 0 0	:		:	468 0	0
Oxford Bush Road extension				166 15	15	133 5 0	900	0
Ashley, irrigation		Ashley and Kajapoi	188 14 10	100	14 1	1,088 14 10	1,377 9	æ
Irrigation-works, Eyre and Waimakariri	:		0		400 0		3,400 0	0
Waimakariri-Ashley, irrigation	:	•	ro	463 7 6	1,474 12 8	36 12 6	1,511 5	C./
Ashley Bridge (to account)	:	•	0 0 000,1	:	1,000 0 0		_	0
Waimakariri Bridge (Kajapoi)	:	Kaiapoi	:			0	275 0	ت
	:	Ashley and Kajapoi		:	:	150 0 0	150 0	0
Christchurch-Hokitika (Bealey Valley) Selwyn	. :	Selwyn	1,778 11 1	:	1,778 11 1	:	1,778 11	_
:	:	:		200 0 0	200	1,000 0 0		0
Mathias Pass Road	:	:	2,046 15 10	:	2,046 15 10		-	\mathbf{z}
Canal Bridge, Ellesmere	:	:	:	:	:	0	150 0	•
Kowai Bridge, £1 for £1	:		:	:	:	0 0 009	009	9
тиву		Geraldine	ļ	:			1,200 0	٠.
e drainage	Akaroa and Selwyn	Ellesmere	753 17 4	:	=	:	753 17	400
Summit Road Akaroa		:	Η.		296 1 3	•	296 1	10 C
Peninsula Road, Akaroa (£1 for £1)	:	:	0	:		:	375 0	•
Akaroa Head Lighthouse Road	:	:	0	:	٠	:	100	٠ ر
raros	:	;	0	:	٥.	:	0 000	٠
Chertsey Village Settlement water-supply Ashburton	ırton	Selwyn	0	;	0	•	23 0	9
Blackford-Redcliffe	:		0	:	0		0 009	9
Reserve 1496, Ashburton	:	Ashburton	45 0	:	0	55 0 0		9
Bridge, Ashburton (subsidy)	:	:	0	;	0	•	7,000 0	9
Ruapuna Block	:	:	75 0 0	:			106 0	9
Ruapuna water-supply	•		:	:	:	0		J
Highbank	:	Selwyn	:	:	:	0		0
Rangitata Light-traffic Bridge	•	Geraldine		;	:	0		0
Rangitata River-mouth protective works (Reserve 100)	:	•	:	70 9 4	70 9 4	:	6 04	4
Course of Course of		-	AK 1K0 19 K	1 404 14 4	46 KKK 6 0	6 66K 0 10	53 990 16	1
ייי ייי אמור זפן דומר מור אמור אייי	•	•	9	1, 101 11	>	•		•

TABLE NO. 4—continued. STATEMENT showing the NET EXPENDITURE on ROADS. &c.—continued.

	THEMPTOTO	MILITAL BUOWING		THE THE TAXE	LAYPENDITORE	OH POADS,	&c.—continuea.			
Name of Work.	· · · · · · · · · · · · · · · · · · ·	County.		Electorate	ei.	Total Net Expenditure to 31st March, 1898.	Net Expenditure during 12 Months ended 31st March, 1899.	Total Net Expenditure to 31st March, 1899.	Liabilities on Authorities, Contracts, &c., 31st March, 1899.	Total Net Expenditure and Liabilities.
Brought forward	. William visc	•		:		£ s. d.	£ \$, d.	£ s. d. 46,555 6 9	£ s. d. 6,665 9 10	£ s. d. 53.220 16 T
ROADS, BRIDGES, ETC.—continued.	****						•			
Orari Bridge (to account)	. Geraldine	:	<u>.</u>	Geraldine .	:		:	0	:	0
Hae-hae-te-moana	•	:	:		:	150 0 0	:	150 0 0	•	150 0 0
Te-moana Gorge		:	:	•	:		:	0	•	0
Arowhenua Inative Koad		:	:		:	:	:	:		0
Arundel water-supply	•	:	:		:	:	•	:		0 0 0
Onihi Bridge (to seconnt)	Geraldine	Geraldine and Layels	:		:	:	•	:	-	0
Tengawai (£1 for £1)	Mackenzie	.: 6	. :	Waitaki	: :	30 0 0			45 0 0	
Tengawai Stock Bridge (£1 for £1)	*	: :	: : :			,	28 17 6	17	01	0
Burke's Pass, Mackenzie County		:	: :		: :	18	i	18 1	1	18
Road to Mount Cook and Glaciers		:	:		:	2,186 9 8	22 18 10	2,209 8 6	H	6 989
Pukaki-Mount Cook		:	:		:			œ	-	0
tridge, Mount Cook Road (to ac		:	:		:		:	•	0 0 009	0
Contribution towards erection of Pukaki Bridge	9.	:	:		:	820 0 0	:	850 0 0	:	850 0 0
(£1 for £1)									•	
Organ Kiver protective works	•	:	:		:	;			0 0 00 00 00 00 00 00 00 00 00 00 00 00	200 007
Tracks, Mount Cook and Chaclers		:	:		:		0 01 022	۰,		<u>د</u> .
Mount Cook nermings (works and		:	:		:	1 10 7				
Talenie Dubaki		:	:				905 14 4	1 7		700 0 002
Camp Vallay		•	: :	•		>	1	:	0	250 0 0
Rocky Gully Bridge, 21 for 21	: 3	: :	: :		:	:	47 10 0	47 10 0	12	
Lake Pukaki (planting)		:	:	•	:	:	:	:		_
Mount Cook Road (stable and shelter-shed)	*,	: :	:		:		:	(0	
Pukaki-Omarama	. Mackenzi	Mackenzie and Waitaki	:	•	:	398 2 6	:	398 2 6	100 0 0	498 2 6
Ohau Bridge (#1 for #1)	Menhan	" T " "	:	7X 3 3		>	:	>	::0	0
Opin Ayyer Protective Works Bridge over Unner Waitski	Waimate	Majmata and Waitaki	:	eratuine and w	VY CHIUSLEI	510 18 3	•	510 18 3		510 18 3
Clements Road	Waimate	:	: :	• •	: :	2		}	250 0 0	
Waimate Reserves		:	:		:	363 11 4	:	363 11 4		
Waihao-Hakateramea	*	:	:		:	-	:			
Kapua Village Settlement drain	:	:	ĭ≤ :	Waitaki	:	:	:	:	100 0 0	
Kapua-Waimate Gorge drain		:	:		:	:	:	:	0	0
Nukuroa (railway gates)	:	•	:		:	:	:	:	0 0	0
Studnolme Junction cattle-stops	:	:	:		:	:000	:	<	٥	> <
Mahmaga-Studholma Tungtion	:	:	:		:	>	91 19 9	91 19 9	96 7 10	
Dersons Bridge	Waimate	Waimate and Geraldine	:	Waitaki and Tim		200 0 0	1	1 C	-	> <
Roimata Settlement drains	Borough	Borough of Woolston	: :	Lyttelton) ²²	•	o`	100 0 0	100 0
Carried forward	:	:		:		55,319 10 11	2,621 14 6	57,941 5 5	10,870 13 2	68,811 18 7
			_		-					-

TABLE NO. 4—continued. STATEMENT showing the Net Expenditure on Roads, &c.—continued.

		TATEMETER	2	סייים פייים		NET TAKENDITOPE	OIL LIOADS,	ac. Commence.	,		
Name of Work.			County.		Elect	Electorate.	Total Net Expenditure to 31st March, 1898.	Net Expenditure during 12 Months ended 31st March, 1899.	Total Net Expenditure to 31st March, 1899.	Liabilities on Authorities, Contracts, &c., 31st March, 1899.	Total Net Expenditure and Liabilities.
Brought forward. Roads, Bridges, Frc.—continued.			:		•		£ s. d. 55,319 10 11	£ s. d. 2,621 14 6	製品 s. d. 57,941 5 5	£ s. d. 10,870 13 2	£ s. d. 68,811 18 7
CANTERBURY LAND DISTRICT—continued. Sundry roads, Canterbury To village and deferred payment blocks Village settlements (see also General) Miscellaneous roads and bridges Miscellaneous and Breineering		,s	:::::				818 11 9 1,399 15 10 132 5 0 2,280 8 3	 Cr. 50 0 0 82 8 10	818 11 9 1,399 15 10 82 5 0	50 0 0 50 0 0 500 0 0 87 11 2	818 11 9 1,399 15 10 132 5 0 500 0 0 2,450 8 3
Total, Canterbury Land District	:	÷.	: :				=	က	15	4	19
	*										
Otago Land District— Martin's Bay Settlement	:	Lake	:	Wal	Wakatipu	:	200 0 0	:	200 0 0	:	200 0 0
Lake Wanaka Steamer Subsidy Martin's Bav-Lake Wakatiou	: :	, t	::	::		::	0	65 0 0	0	95 0 0	0
Martin's Bay-Lake Wakatipu	:		:	:	. 2	:	0	•	0		0
Queenstown Jetty Arrowfown-Crown Terrace	: :	* :	: :	::	t :	::		::		400 0 0	1,500 0 0
Glenorchy up Rees and Dart	:		: :	:		:	1,805 3 7	:	1,805 3 7	:	805 3
Rees River Road	: :		: :	::		: : : :	0	::	000		0
Pembroke-Matukituki	:	: t	:	:	: 2	:	110	100 0 0		200 0 0	2,679 11 4
Dark Liver foud Bent Burn	: :		::	::		: :	100 0	::		::	000
Lake Wanaka Wharves Tracks Head of Lake Wakatipu	::	2 2	: :	::	2.6	::		0	15.0	ಬ	<u> </u>
Lake Te Anau-Wakatipu	:	: 3	:	:	: 1		•	599 13 9	13	400 6 3	1,000 0 · 0
Albert Burn Track Hollyford Valley	::	: :	::	::		::	159 0 0	0	0	>	
Glendhu-Roy's Peninsula Ben Lomond Run	: :	. :	::	Wai	Waitaki	::	0	::		400 0 0	00
Lower Wanaka Block	:	7 - 1 - 2 - 1 - 2 - 1 - 2 - 2 - 2 - 2 - 2	11-11	Tau	_ ;	THE THE PARTY OF T	400	101 0 0		:	101 0 0
Lake Te Anau-Sutherland Falls	::	Lake sand	W Ruisa Ce	₩ : :	aerbu ama	· · · · · · · · · · · · · · · · · · ·	391 7	166 1	557 18	83 8	641 7
Tracks-Western Sounds	:	Lake and Vincent	Vincent	Wed	Wakatinu and Tuaneka	Пиврека	2,605 4 1 250 0 0	2,664 2 10	5,269 6 11 250 0 0	17	6,000 4 1 250 0 0
Bendigo-Matakanui	: :	Vincent	:		4	:		88 6 7	9	511 13 5	0 5
Makarora-Haast Valley Makarora Valley	•	*	: :		wakatipu 		379 12 6 400 0 0	201 11 0	601 11 0	6	70
Cromwell-Hawea-Lindis Pass	: :		::	 : :		::				300 0 0	300 0 0
Carried forward	:		;		:		13,935 11 10	4,352 5 6	18,287.17.4	3,548 19 6	21,836 16 10

TABLE NO. 4—continued.

	Total Net Expenditure and Liabilities.	21,836 16 10 300 0 0 250 0 0 250 0 0 450 0 0 2,946 7 6 5,000 0 0 1,500 0 0 1,201 0 0 200 0 0	
	Liabilities on Authorities, Contracts, &c., 31st March, 1899.	256 8. d. 2548 19 6 150 0 0 0 154 16 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-
•	Total Net Expenditure to 31st March, 1899.	18, 287 17 4 300 0 0 300 0 0 0 300 0 0 0 300 0 0 0 2,946 7 6 5,000 0 0 0 1,000 0 0 300 0 0 0 300 0 0 0 1,261 0 0 0 1,261 0 0 0 300 0 0 0 300 0 0 0 300 0 0 0 1,261 0 0 0 250 0 0 0 300 0 0 0 300 0 0 0 300 0 0 0 300 0 0 0 1,649 0 0 0 300 0 0 0 300 0 0 0 300 0 0 0 300 0 0 0 300 0 0 0 300 0 0 0 300 0 0 0 300 0 0 0 300 0 0 0 300 0 0 0 300 0 0 0 300 0 0 0 300 0 0 0 300 0 0 0	
&c.—continued.	Net Expenditure during 12 Months ended 31st March, 1899.	4,352 8. d. 300 0 0 300 0 0 500 0 0 500 0 0 6 9 3 6 9 3 7 8.89 16 9	
on Roads,	Total Net Expenditure to 31st March, 1898.	13,935 11 10 300 0 0 2,946 7 6 5,000 0 0 200 0 0	
the Net Expenditure	Electorate.	Tuapeka Tuapeka Wakatipu Tuapeka Wakatipu Tuapeka Tuapeka Tuapeka and Maniototo Wakatipu Wakatipu Wakatipu Wakatipu Wakatipu Watatipu Waitaki " " " " " " " " " " " " " " " " " " "	
STATEMENT showing	County.	Vincent Vincent and Maniototo Vincent and Lake Vincent and Mariaki Waitaki Waitaki Waitaki Waitaki Maniototo	
	Name of Work.	Brought forward Roads, Bridges, Erc.—continued. Chato Cheek-Thikens Lauder District, Blocks III., IV., V., and VI. Ophir District Water-supply Tracks, Hawea Lake Tiger Hill Block Tiger Hill Block Tiger Clutha Blocks Rawarau-Nevis Bridge over Clutha at Alexandra McCabe's Coal-pit-Gibbston Tourists' Accommodation-house, Morven Hills Bridge over Clutha at Alexandra McCabe's Coal-pit-Gibbston Tourists' Accommodation-house, Morven Hills Galloway Station-Ida Valley Rough Ridge-Poolburn-Tuapeka Lauder-Blackstone Block Lower Hawea-Lower Wanaka Lindis Pass Road Kurow Run Section 4. Block VIII., Maruwhenua Domet and Maruwhenua Block Lower Hawea-Lower Wanaka Lindis Pass Road Kurow Run Section 4. Block VIII., Maruwhenua Domet and Maruwhenua Block Waruwhenua Bridge Upper Waitaki (Ahuriri or Otematata Rartigi Road Run 109 Wainakarua Slate Quarry (road to) Herbert, Main Road (21 for 21 Livingstone-Kyeburn Blackstone-Ryeburn Blackstone-Ryeburn Blackstone-Gimmerburn Block Naseby, Maniototo, and Gimmerburn Blackstone-Gimmerburn Blackstone-Gimmerburn Blackstone-Gimmerburn Blackstone-Backstone Blackstone-Gimmerburn Blackstone-Backstone Blackstone-Gimmerburn Blackstone-Gimmerburn Blackstone-Gimmerburn Blackstone-Backstone Blackstone-Backstone Blackstone-Backstone Blackstone-Backstone Blackstone-Gimmerburn Blackstone-Backstone Blackstone-Gimmerburn Blackstone-Backstone Bla	

Total Net Authorities, Septenditural Expenditure to Contracts, &c. 31st March, 1899. 3.st March, 1899. 4.2, 749 12 6 7, 195 0 10 49, 944 400 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									1		
Short and Pulse to any Watherno and Manicoto any Watherno and Manicoto any Watherno and Manicoto any Watherno and Manicoto and Watherno and Wather	Name of Work.		ŏ	anty.	H	Electorate.	Total Net Expenditure to 81st March, 1898.	Net Expenditure during 12 Months ended 31st March, 1899.	Total Net Expenditure to 31st March, 1899.	Liabilities on Authorities, Contracts, &c., 31st March, 1899.	Total Net Expenditure and Liabilities.
Mailtone and Maintole book and Wailtone book and Mailtone book a	-						න් න	zá	.8 8:	e3 8	
Manipototo Man	Brought forward ROADS, BRIDGES, ETC.—continue	į.		:			859 15	16	,749 12	,195 0	
1, 200 1	GO LAND DISTRICT—continued.	•	Maniototo		Waihem	;				<	
Block September Septembe	ms 219C 306 and 306A	: :	On On Other	:	THE CONTROLL	: :	0	:	С	>	
Block Second	un 2064 (Naseby)	: :	•	: :		: :	300	: :	0	0	
Block	un 206r (Manioboto)	: :		: :		:	300	:	0	0	
Shook	yeburn District	:	•	:	:	:	200	:	0	:	
Blook	omako Township	;		:		:		:	:	0	
Blook	yeburn-Naseby	:	•	:	•	:	:	:	:	0	
Blook	un 219	:	ŧ	:	:	:	:	:	:	0	150 0
1,240 0 1,10	\ <u>!!!</u>	Ļ							•	<	907
1,240 0 1,240 0 1,240 0 1,1240 0 0 1,1240 0 0 1,1240 0 0 1,1240 0 0 1,1240 0 0 1,1240 0 0 1,1240 0 0 1,1240 0 0 1,1240 0 0 1,1240 0 0 1,1240 0 1,1240 0 1,1240 0		:	• *	•	:	:	:	:	:	>	
100 100	aniototo	:	•	:		:	240 0	:	240 0	;	
Second S	aniototo Block					:	100 0	:	100 0	•	
1,000 1,00	aieri River Bridge, Kokonga	:	10-8	:	: 1	· •	200 0	:	0	0	750 0
Rand Plilar (to Waihemo and Waiheustit Waikousiti W	tieri Lake, Block XV., Maniototo	:	•	•		:	0	:	0	:	200
100 0 0 0 0 0 0 0 0	un 222	:		:		:	450 0	:	0		450 0
1 1 1 1 1 1 1 1 1 1	lock XI., Maniototo	:	*	•	:	:	:	:	:	0 (100
	lock XVI., Manietoto	:	•	:	:	:	:000	:	•	0	2000
1,000 0 0 0 0 0 0 0 0 0	aniototo, Diock II.	:	•	:	:	:	200	:	>	> <	
1,093	immerhurn District	• • •	. :	: :	• :	: :	700	: :	0	>	202
	mmerburn Block	: :		:		:	400 0	0	0	:	750 0
d Pillar light with the part of the part	winburn and Rock and Pillar						c		0		1 709
d Pillar divilibration deciding to the control of	nn 210	•	*	:	• 	•	٠ ١	:	•		2001
d Pillar (b)	inback-Swinburn	:	•	:	· :	:	٥.	:	٥.	-	1,750 0
Color Colo	amilton Bridge	•	•	•	•	:	000	:	> <	•	000
ok and Pillar (to main total prime) Maniototo and Waihemo 200 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	pourn bridge, #1 lor #1	:	•	:	:	:	000	:	> <		
Maniototo and Waihemo 250 0 250 250 0 250	pper talen sond twock and rings	Piller	•	•	•	: :	9	:	>	0	004
Manictoto and Waihemo Manictoto Manictoto and Waihemo Manictoto Mani	account)		•	•			:	•	•	,	
Maniototo and Waihemo. Waihemo and Maniototo. Waikwaiti Wai	anfurly Township	:	•	:	:	:	:	:	:	0	200
Maniototo and Waihemo. Maniototo and Waihemo. 200 0 0 0 288 28	yeburn Bridge (to account)	:	٠	:	:	:		:		0	
Waihemo and Maniototo "	winburn Farm-homestead Block	:	Maniototo	and Waihemo	:	•	0	:	0	0	
Walhemo and Maniototo	winburn Special Settlement	:	;		· •	:	0	:	0		
Walkousiti	.yde Bridge, Taieri River	:	Waihemo	nd Maniototo	:	:	:	:	:	0 (
	uns 225f and 225f to 225z	:	Walnemo	:	:	:	:0	:	•	>	0027
1 forward Waikouaiti 3,257 6 4 200 0 8,457 6 4 150 0 0 8,607	hrough Kuns 171 and 1714	:	W BIKOUBIE	:	:	:	> <	•	3 (***	000
	Taikari to Waitati	::		:, :	Waikoua	iti	9	0	၁ ဖ	Ö	3,607 6
51,448 2 1 6,439 16 9 57,887 18 10 11,726 0 10 69,613											
	Carried forward	:	*****	; .		:	C3	16	18	0	

TABLE No. 4-continued.

	&c.—continued.
	E on Roads,
1 5 110C	T EXPENDITURE
֡֝֝֟֝֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝	the NET
	STATEMENT showing the

					. ,		-		3.	
Name of Work.	CO	County.	•	Bled	Electorate.	Total Net Expenditure to 31st March, 1898.	Net Expenditure during 12 Months ended 31st March, 1899.	Total Net Expenditure to 31st March, 1899.	Liabilities on Authorities, Contracts, &c., 31st March, 1899.	Total Net Expenditure and Liabilities.
Brought forward ROADS, BRIDGES, FIG.—continued.		:			:	£ s. d. 51,448 2 1	£ s. d. 6,439 16 9	£ s. d. 57,887 18 10	£ s. d. 11,726 0 10	£ s. d. 69,613 19 8
OTAGO LAND DISTRICT—continued. Blueskin, £1 10s. for £1	Waikouaiti	:		Waikouaiti	:	:	105 0 0	105 0 0	:	105 0 0
Brinn's Point, Cemetery Road Comer Bush-Marton	•	:	:	•	:	:			0	
Seachiff Asylum Reserve-Native Reserve		::	: :		: :			: :	000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Waikouaiti Bridge (repairs)		:	5	Chalmers	::		:	,	,	, ,
Brinn's Point and Merton	.	: :	: :		:	. 600 0 0	:	850 0 0	:	920 O C
Waitati	• •	: :	: :	• •	: :	>	•	>	: :	>
Seacliff Asylum Road		:	;		:	0		0		200 0 0
Varmington	*	:	:		:	13	20 0 0	13	10 0 10	_
Waitaki Road	a :	::	: :			541 1 7	:	541 1 7	:	541 1 7
Lower Harbour Road		: :	: :		: :	4	150 0 0	- 0	: :	150 0 0
Maori Kaika Road, Otago Heads	•	:	:		:	1,031 8 6		8	:	
North Herbert Cargill		:	<u>Ω</u> :	Dunedin	:	:	100 0 0			100 0
Pine Hill	•	:	:	•	:	:	:	:	0	0
Peninsula Beach Road (prison labour)	Peninsula.	: :	: :	Chalmers	: :	30.9	:		200 0	100 U U
Peninsula Beach Road, Portobello		: :	: :		: :	1	4	188	<u> </u>	· C
Otago Peninsula (Block II., from Section 60 through		:	:	: *	:	0 0 009	348 3 10	က	16	-
71, &c.) Tomahawk Road	•	:				0 0 006	-			0 000
Blair-Taieri	Taieri	: :	Ĕ	Taieri	: ;	>	100 0	0 0 001	•	100
Taleri Bridge-Nenthorn Bridge	•	:	:		::	0	,	0	: :	0
Block XII., Nenthorn		:	:	à.	:	0	:	300 0 0	:	0
Mindon	•	:	:		:	0	:	0	;	0
Rin 75 (Boyd's)	•	:	:		:	1,005 0 0	:		:	1,005 0 0
Bridge over Kaikorai Stream		: :	:				:	> C	:	> <
Grant in aid of bridge at Kaikorai on Main South		: ::	: :		· <i>·</i> : :	0	: :	456 0 0	: :	-
Road										
Dridge over Taleri Main South Road	2	:	:		:	61	:	13	:	12,581 19 0
Taiell Diuge, Ouakla, ±1 Iof ±3	•	:	:		:	٠,	:	ب ج	•	 (
Hanley profestive river-works	*	:	:		:		:	:: ::	:	13
Taieri River Road	3 :	: :	:	4 3	• • • • • • • • • • • • • • • • • • • •		:	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	:	0 0 0 00
Henley Road		: :	::		: :	0	•	0	:	-
Maungatua and Waipori		::	:	Tuapeka and Taieri	Taieri	,	: :	•		0
Taieri Bridge-Pukekura		:		ruce	:	:			200 0 0	0
Carried forward						75,788 6 7	7,481 4 10	83,269 11 5	13,241 0 4	96,510 11 9
	_		-		VE S S S SUSSESSES					

TABLE NO. 4—continued. STATEMENT showing the Net Expenditure on Roads, &c.—continued.

	O.T.O.	TUTTEMENT	snowing .	S the INET	TO VENEZIO ELE CINE	OIL DOADS,	&c.—conumea.	,		
Name of Work.		County.	_)[<u>@</u>	Electorate.	Total Net Expenditure to 51st March, 1898.	Net Expenditure during 12 Months ended 31st March, 1899.	Total Net Expenditure to 31st March, 1899.	Liabilities on Authorities, Contracts, &c., 31st March, 1899.	Total Net Expenditure and Liabilities.
Brought forward Roads, Bridges, erc.—continued.	:	:			:	£ s. d. 75,788 6 7	£ 8. d, 7,481 4 10	£ s. d. 83,269 11 5	£ s. d. 13,241 0 4	£ s. d. 96,510 11 9
Orago Land District—continued. Teviot Small-grazing Runs	Tual	Tuapeks	:	Tuapeka	:	100 0 0	:	100 0 0	:	100 0 0
Teviot Block Bridges over Clutha and Beaumont and Roxburgh	rgh "	::	::		::	16,403 13 2	::	16,403 13 2	::	16,403 13 2
(grant-in-aid)	· 					(,		
Through Blocks VIII. and X., Benger Beammont-Miller's Flat	:	:	: :	e i		6.000 0	•	1,000 0		1,000 0
Kelso-Greenvale	: :	::	: :	Clutha	: :	0		0	: :	0
Tapanui Railway-Run 140	:	:	:		:	c1 ·	:	C4 -	(C1 ·
Glenkenich Black Hill-Main Dunedin Boad	: :	: :	: :	.	: :	99 19 11	:	99 19 11	0 0 05%	340 4 0 99 19 11
Beaumont Block	: :	::	: :		::	\ }	•	1	400 0 0	90
Rankleburn, &c	:	:	:	•	:	1,266 0 0	٠	1,266 0 0		1,266 0 0
Deaumont and rankleburn Tuaneka Mouth Punt		: :	: :	• :	: :	5 C	7. 0 .222	0	0.61.076	E 0
Tuapeka West Block	: :	::	: :		: :	967 0	: :	0	: :	0
Run 106	:	:	:		:	<u>-</u>	•		:	2
Waitahuna-Kun 52c Waitahuna Bridge	:	:	:		:	1,200 0 0	:	1,200 0 0.	:	1,200 0 0
Rankleburn, Block III.	: :	: :	: :		: :	•	: :	>	0	0
Waitahuna-Lawrence	:	:	:	Tuapeka	:	:	:	:	150 0 0	0
Waitahuna-Waipori		The makes and Windows		Tuapeka and Bruce	d Bruce		:		0	0
Switzers Track-Spylaw and Clutha	Tua	Tuapeka and Vincent Tuapeka and Southlan	thland	Tuspeka and	d Wakatipu	690 5 6		690 5 8	::	500 0 0 690 5 8
Wakaia Bush-Clutha Valley	:		:			0	: :	0	:	0
Table Hill	Bruce	 9c	:	Bruce	•		:		. '	0
Taleri Beach and South Roads	:	:	:		:	:	•	:	0	0
Matan River protective works (Inch Clutha)	:	:	:		:	:	:	:	0 000	0 0 000
Taieri Mouth Punt	: :	: :	: :		: :	0	::	0	•	0
Clarendon District	:	•	:		:	0	:	0	•	0
Bridge, Tokomairito Kiver, North Branch	:	:	:	•	:		:		:	0
Matau Bridge (contribution)	: :	: ;	: :	Clutha	: :	0	: :	0	150 0 0	500 0 0 450 0 0
Pomahaka Bridge, £1 for £1	Clut	Clutha and Tuapeka	9kg		:	350 0 0		850 0 0)	0
Pomahaka-Clutha	Clutha	.: .:	:	Bruce	:	0	100 0 0		•	0
Fomanaka Driuge (Ciyuevaie)	:	:	: 1	Clutha and	Eruce		:		0 0 000	0
Waipahi Bridge (subsidy)	::	::	. :	Orange	::	150 0 0	::	150 0 0	100 0 0	250 0 0
Carried forward	:	:				115,554 12 3	7,804 11 5	123,359 3 8	16,547 13 9	139,906 17 5
	-								-	

TABLE NO. 4—continued.
STATEMENT showing the NET EXPENDITURE on BOADS, &c.—continued.

Name of Work.	,		County.		Electorate	ate.	Total Net Expenditure to 31st March, 1898.	Net Expenditure during 12 Months ended 31st March, 1899.	Total Wet Expenditure to 31st March, 1899.	Liabilities on Authorities, Contracts, &c., 31st March, 1899.	Total Net Expenditure and Liabilities.
Brought forward Roads, Bridges, etc.—continued.	:		·		•		£ s. d. 115,544 12 3	£ s. d. 7,804 11 5	£ s. d. 123,359 3 8	£ s. d. 16,547 13 9	£ s. 139,906 17
Glenomaru and Owaka	:	Clutha	:	: :	Clutha	:	1,146 16 2		16		
Block IV., Catlin's District	:	ŧ	:	:		:		0 0 06	0	:	
Glenomaru Block	:	Ł	:	:	:	•	624 13 0	,	13	•	
Catherwood's Road	:		:	:		:	61 4	_	io i		
Hunt's Koad	:	ŧ	:	:	:	:	, ,	87 19 0	1,972 10 11	110 15 6	2,083 6
Cannibal Day Load	:	Ŀ	:	:	:	:	00	Ç	0 0	1	
Darrs road	:		:	:	•	:	300 0 0	118 18 11		181 1 1	000
Glenoment Ricel IV	:		:	:	:	:	٦.	1 5	4	10	
Glandman, Plock IV.	:	ŧ	:	:	:	:	7 0	77	# <	-	
Owner (Gamphell's)	:	t	•	:	:	•	0	:	> <	:	
Owaka (Osumpton S)	:		:	:	:	•	> <	:	0	:	
Owasa Luantway-sugarous, or for set	:	ŧ	:	:		:	>	•	> <	:	
Wakki-Chaim Blacke	:	ŧ	:	:	:	:	1		> <	:	
Clansman Dislatt II II III and V	:	٤.	:	:	:	:		7 -	ه د	c	
:	:		:	:	;	:	1 967 6 9		٦ ٥	56 15 9	
Callin's and Tantulm	:	ŧ	:	:		:	1000	H	4 4 4 +	9 0	
Moile and reducted	:	*	:	:	:	:	20			O	11,420 10
Ploof VIII Cettin's	:	4	:	:	;	:	001	2,010 0 1	ם מ		
Diock Titt, Castiff a	:		:	:	:	:	9	2 5	- 0	7 7	
Dlock I., Osulin 8	:	•	:	:		:	194 6 I			7	487
Orthon Display T T and IV	:		:	:		:	>	(0	:	
Carlin's Blocks IV, V VII and VIII	:	Ł	:	:	:	:	916 11 0	200 0 0	_	956 16 11	
Woodlands Improved farm Sattlement	:	è	:	:		:	16	; ;	200	7	
Woodlands	:	×	:	:		:			2 6	H Ç	
Woodlands (B2) Improved-farm Settlement	:		:	:	:	:	30 14 6	3	39 14	2 0	1 139 12
Manuka Island-Balchtha	•		:	:	:	:	+	:	+	000	
Tantaka Block VIII.	:	•	:	:	:	:	:	:	:	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
Woodlands-Tahakonii	:	•	:	•	:	:	:	и ::V	بر بر بر	7	
Waiwers Bridge, subsidy (Dunedin-Invercarcill)	.aroill)		:	:	:	:	:	٥	3		
£1 for £1	(/		:	:	:	:	:	:	:	>	
Glenomaru, Blocks III., IV., V., VII., and X.		ŧ	:	:	:	;	:	:	:	48 4 8	48
Ratanui Road	:		:	:	:	:	4	•	4		
Ratanui-Whitehead	:	ŧ	:	:		:	200 0 0	152 18 11	18	147 1 1	200
	:		:	:		:	0	•	50 0 0	:	
Bridge over Tahakopa, Block VIII., Rimu	:	ŧ	:	:	:	:		4 0 0	4 0 0	0 0 968	400 0
Long Point Road	:	ŧ	:	-:		:	635 8 4	:			
Mouat's Saddle	:	Ł	:	:	•	:	:	:	:	200 0 0	
Carried forward				· .			167 805 5 9	19 587 19 9	181 849 17 4	99 945 18 1	904 988 15
	:			_	•		5	47.	100	9	

TABLE NO. 4—continued. STATEMENT showing the Net Expenditure on Roads, &c.—continued.

	STATEMENT showing	ng the Net Expenditure	on KOADS,	&c.—continued.		Liabilities on	7. X (-1. W
Name of Work.	County.	Blectorate.	Total Net Expenditure to 31st March, 1898.	12 Months ended. 31st March, 1899.	Total Net Expenditure to 31st March, 1899.	Authorities, Contracts, &c., 31st March, 1899.	Total Net Expenditure and Liabilities.
Brought forward ROADS, BRIDGES, ETC.—continued.	:	:	£ s. d. 167,805 5 2	£ s. d. 13,537 12 2	£ s. d. 181,342 17 4	£ s. d. 22,945 18 1	£ s. d. 204,288 15 5
Purakauiti Stream	. Clutha	Clutha	2	35 12 0	14	10	. 257 4
Kaler's Road (felling)	:	:	15			200 0 0	
Warnock's Road	:		4	C3 7	16		
Tahaukupu Bissi Block VIII	: "			396 o 0	1,112 13 2		304 15
Tahankinii Block			11	5	3 =	•	
Tautuku River Landing-sheds, &c.	: :		300 0 0	: :	10	: :	
Tautuku	:	:	17	:	483 17 5	0 0 009	1,083 17
Waikoikoi Bridge		:	0	;	0	:	
Rimu	:	: "	4		554 4		554
Rimu Improved-farm Settlement		:	1,775 16 1		L- (-
Rimu, Block XIV.	:	:	•	16	16	41 (
Heathfield Improved farm Settlement		:	4,648 6 0	9		2;	5,513 3
Waipati Improved farm Settlement	. Clutha and Southland	:		T.2	ဗ		4,660 3 8
Leithen Bush Track		:	•	200 0 0	200	:	
Subsidy, Clutha Bridge Beloing Cluthe Birrar	· Clutha and Bruce	Cluthe and Bringe	2,500 0 0	:	2,500 0 0		2,500 0
Andomon's Ross	Company C+ Wilde one	_	100	175	0.0 376	0 0 26	300
Auderson's Day	South Dunedin Boroughs	Caversham	>	>	>	>	
Caversham Industrial School Reserve	. Caversham Borough		0	:		:	
Cargill Street, Caversham					0		100 0
Water of Leith protective works	. Maori Hill Borough	City and Taieri	0	150 0 0	400 0 0		545
Kavensbourne	. West Harbour Borough	Chalmers	<u>.</u>	0	<u>-</u>	3 14 6	
Gladstone, Upper Junction	. N.E. Valley Borough	Dunedin City	0	:	0	:	
Normanby, Mount Cargill			0	:	0	:	150
Sundry roads and bridges, Otago	:	:		:	0	:	1,001 5
Native Districts	:	:	5	:	735 5	:	
Education Reserves	:	:	က	:	က	•	
Furchase of Roads	:	•		,	542.1	•	_
Wiscellaneous and engineering	:	:	, 336 50 100	0 0 001	436 6	440 0 0	0,870
To open up Utago kuns Village Settlements (see also General)	::	::	11,792 19 11 78 15 3	182 6 3	11,792 19 11 261 1 6	66 18 6	11,792 19 1. 328 0 (
Total, Otago Land District	:	:	208,375 0 9	17,683 14 4	226,058 15 1	25,554 3 5	251,612 18
							The state of the s

TABLE No. 4—continued.

&c.—continued.
on Roads,
Expenditure
N_{ET}
$_{ m the}$
showing the NE
STATEMENT

Prop. Prop	Name of Work.									,			
### Solutions of the continued. Continued		-	,		Sounty.		*E	ectorate.	Total Net Expenditure to 31st March 1898.	Net Expenditure during 12 Months ended 31st March, 1899.	Total Net Expenditure to 31st March, 1899.	Luabilities on Authorities, Contracts, &c., 31st March, 1899.	Total Net Expenditure and Liabilities.
Southhand Wakathpu Wakathpu Southhand Southhand Wakathpu Southhand Southhand Wakathpu Southhand Southhand Wakathpu Southhand	ROADS, BRIDGES, FIGcom	tinued.							້ທີ່	si.	ໝໍ .	υż	
90 100 1	SOUTHLAND LAND DISTRICT— Athol-Nokomai Saddle	:	:	Lake	:	:	Wakatipu	:	0	•	0	:	200 0
Color Colo	Evre Creek Bridge	: :	: :	Southland	: :	: :	Wallace	::	:	0	0		0 008
Second S	Gow's Creek Stock-bridge	:	:		:	:	Wakatipu	:	150 0	:	0	:	
Second S	Dome Creek Bridge	:	:	*	:	:		:	400 0		0	:	_
Greenvale Greenv	Tomogalak Creek-D.P. land	:	:	Ł	:	:	*	:	499 5	:	io.		
Greenvale	Dipton-Balfour	:	:	*	:	:	*	:	0	•	0	0	_
Greenwale Sign of Sign	Boundary Creek Bridge	:	:	*	:	:	*	:	150 0	:	0	•	_
Company Comp	Argyle Bridge	:	:	ŧ	:	:	*	:	: 2	•	, (0	
State Contact Contac	Walkaka-Wendon and Greenvale	:	:		:	:		:	> <	:	-	:	
Control Cont	Wendon District	:	:	t	:	:	•	:	> <	:	>	:	
X., and Man X., an	Wendonside	:	:	Ł	:	:	•	:	> <	:	0	:	100 0
Control Sign Cont	Elveredale-Switzers	:	:	*	:	:		:	> <	:	-	:	0.50
XL, and Mall XL, and Mall<		٠,			:	:	ŧ.		>	:	•	<	
150 150		÷	Main	*	:	:	\	•	:		;	>	
Lange Lang	Garrieburn, Hickey's Ford	:	:	k	:	:	*	:	:	:	:	0	150 0
ka Township 1 Waketipu and Clutha 2,000 0 2,000 0 1,000<	Wakaia River Bridge (£1 for £3)	:	:	ŧ	:	:	*	:		:	:	0	300
National	Waikaka Siding-Waikaka Township	:	:	Ł	ì.	:	Wakatipu a	nd Clutha .	0	:	0	:	
Nakatipn 1,000 0 0 0 0 0 0 0 0 0	Hillend-Dipton Flat	:	:	ŧ	:	:	Awarua	:	0	:	0		320 0
Nathaura Nathaura 1,998 T 2,00 0 0 0 0 0 0 0 0 0	Main North Road (£1 for £1)	;	:	ž	:	:		:		:	(0	0 009
Mathematical 1,998 T 2,000 0 0 0 0 0 0 0 0 0	Waikaka-Pyramid	:	:	Ł	:	:	Wakatipu	:	0	:	0	:	0 00%
Otama Mataura 120 0 150	Pyramid Bridge-Waikaia	:	:	Ł	:	:	•	:	> 0	:	-	:	0 000
Otenma Wakefulfs 1,988 17 0 1,988 17 0 1,998 17 17 0 1,998 17 17 0 <th< td=""><td>Waimea Valley Road</td><td>:</td><td>:</td><td></td><td>:</td><td>:</td><td>A</td><td>:</td><td>> <</td><td>:</td><td>> <</td><td>:</td><td>-</td></th<>	Waimea Valley Road	:	:		:	:	A	:	> <	:	> <	:	-
Comman Type of the control	Otamita Ketreat	:	:	ž.	•	•	Mataura M	:	100	:	100	:	000
Awards A	Bridge over Mataura at Otama	:	:	ŧ	:	:	waka upu	:	7 O O O	:	000	:	1 000
Second Parameters Seco	35	:	:	*	:	:	Manaura	:	> <	:		:	3 5
s	Gorden Duck Obsessed	:	:	Ł	:	:	A 1110 x 130	:	φ	:	440 18	C	200
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s	Woodend	:	:	ż	:	:		:	9	:		•	
ion Forest 200 0 0 200 0 0 0 200 0 0 0	Clapitit	:	:	*	:	:		:	200	:	, -	0	
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ard	Branch road-Forest Hill	•	:	*		:			6		19	: :	
	Forest Hill Boad	: :	: :	: t	: :	: :	: :	: :	ြ	0	898.9	0	
27,621 17 8 700 0 0 $28,321$ 17 8 $2,325$ 0 0 $30,646$ 17	1									1	;	.	
	Carried forward	:	:		•			:	11	o.	1.7	0	30,646 17

TABLE No. 4—continued.

Name of Work.			County.		H	Electorate.		Total Net Expenditure to 31st March, 1898.	Net Expenditure during 12 Months ended 31st March, 1899.	Total Net Expenditure to 31st March, 1899.	Liabilities on Authorities, Contracts, &c., 31st March, 1899.	Total Net Expenditure and Liabilities.
D. comments of A. Mariana							<u> </u>	£ s. d.	5 S. C.	8. d.	& & & & & & & & & & & & & & & & & & &	£ 8.
FOADS, BRIDGES, ETC.—continued.	d.	•	:			:		7.7	>	Ξ.	>	30,040 I
SOUTELAND LAND DISTRICT—continued.		Comthing	'n		V							- C
Usepiti Diluge-Forest Hill Block Hokonni-Forest Hill Block		· Southing	: na	:	Awarum	:	:		.: A 19 10	85 7 10	150 0 0 517 7 9	-
Forest Hill Macdonald Road	•		:	:		:	:	1 700 9 5	7		- 10	4
Dingdale	•		:	:	Matanra.	:	:	· C	:	, C	2	50
Boxall Road			: :	: :	Invercargill	: :	: :	,	. ;			
Baird's Road, Block IX., Waikawa	•		: :	:	Mataura	: :	:	: :		: :	0	
Bluff Road-Campbelltown	•		:	:	Awarua	:	:	:	•		0	
Campbelltown Hundred, Block VIII.	•		:	:	ŧ	:	:	:	:	:	0	
Centre Bush Village	•		:	:		:	:	:	:	:		100 0
Hokonul-Henderson's Road	•		:	:	ì	:	:	:	:	:	0	500
Invercargili Hundred, Blocks IA., A.	•		:	:		:	:	:	:	:	> 0	
Mill and Place Dood	•		:	:	>	:	:	:	•		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	002
Mirrhy's Road (21 for 21)	•		:	:	2	:	:		•	:	0	
Otatara			:	:	٠.	:	:	:	:	:	0	100
Laura Creek Bridge			: :	:	. :	: :	: :	:	:		0	
Wirton Creek Bridge, Section 9 (Winton Hundred)	Hundred)		: :	: :	: :	: :	: :	: :		: :	20 0 0	
Winton Creek Bridge			:	:		:	:	:	:	:	0	0 09
Through Runs 177 and 257	•		:	:	Mataura	:	:	_	:		:	5,002 0
Hedgehope-Mataura	•		:	:	Awarua and	nd Mataura	:	300 0 00	:	0 0 008		008
Makarewa-Hedgenope Flood-channel	•		:	;	V V	*	:	::	:		0 000	000
Waithumu Driage	•		:	:	Awarus Matanra	:	:		0 0 00%	0 0 000	•	002
edgehone-Titipus and Dunsdale Bridge	SS		: :	: :		: :	: :		•	>	500 0 0	200
Mataura River protective works			:	:	: :	:	:	0	:	0	:	200
Invercargill Hundred, Block XXIII.	•		:	٠	2	:	:		:	₩	100 0 0	299
Hedgehope Road			:	:	Awarna	:	:	200 0 0	:	200 0 0	:	200
Makarewa-Hedgehope			•:	:	•	:	:		:		•	000
Main North Road, Winton	•		:	:	*	:	:	: 20	:	: 20	0 0 008	200
Orion and Minera fords, Makarewa			:	:	2	:	:		:			200
Bush land east of Makarews.	•		: :	:	•	: :	: :	590 0 0	:	0	>	
Outfall drainage. Olatara			: :	: :		: :	: :	>	74 3 6	00	175 16 6	
Wallacetown-Ryal Bush			: :	: :	: \$: :	::	150 0 0	ı	150 0 0	i	
Section 795, Hokonui	•		:	:		:	:				0	20
Wallacetown-Spar Bush-Waimatuku Flat	at.		:	:	•	:	:		200 0 0		0	
Makarewa Bridge	•		:	:	2	:	:	635 19 3	:	635 19 3	100 0 0	735 19
munnom	•		:	:	•	:	:	:	:	:		⊋
Carried forward	•	-	:			;	<u> </u>	37,583 2 5	1,180 16 4	38,763 18 9	7,994 19 11	46,758 17
					_		_	ı		,		_

TABLE NO. 4—continued. STATEMENT showing the Net Expenditure on Roads, &c.—continued.

Name of Work.)	County.		Ele	Electorate.	Total Net Expenditure to 31st March. IS98.	during 12 Months ended 31st March, 1899.	Total Net Expenditure to 31st March, 1899.	Authorities, Contracts, &c., 31st March, 1899.	Expenditure and Liabilities.
Brought forward ROADS, BRIDGES, ETC.—continued.		. :			:	£ s. d. 37,583 2 5	£ s. d. 1,180 16 4	£ s. d. 38,763 18 9	£ s. d. 7,994 18 11	£ s. d. 46,758 17 8
SOUTHLAND LAND DISTRICT-continued.						<				001
Linds Bridge	Southiand	:	:	Awarua	:	100 0 0	:	0 0 000		0 000
Grove Bush	•	:	:		:	0	:		ć	0 007
Centre Bush	*	:	:	*	:		:		0 0 001	100 0
Makarewa-Grove Bush	•	:	:	×	:	0	:	0		0 069
Bush land, Makarewa		:	:	*	:	0	:	0	:	_
Wright's Bush		:	:		:		:	100 0 0	:	100 0
Wallacetown-Tomoporakau	: 3	:	:	: 3	:	150 0 0	:	0	:	_
Mill Road, Makarewa, Block X., Sections 32 and 33	. :	: :			:		200 0 0	0	:	
	: :	:	:	: 2	:	200 0 0	:			200
Invercargill Hundred, Block XXIII	: :		:	: 2	:	307 14 6	14 2 3	921 16 9	78 3 3	_
Invercargill Hundred, Blocks XIV., XV.	: 1	: :	:	: :	:		:	:	0	_
Waikiwi Suburban	: :	:	:	: 2	:	150 0 0	:	150 0 0		150 0
Waikiwi		:	:		:	:			20 0	_
Invercargill Hundred, XV	: :	:	:	: 3	:		99 15 0			
~~~		: :	:	: :	:	200 0 0	144 19 9	344 19 9	0	400 0
Oreti Bridge, Wrav's Bush Road (to account)	: :	: :	:	: 2	:	:	:	:	0	
Otapiri Bridge		:	:	: 2	;	:	:	•	0	150 0
Otaniri Bridge (Forest Hill)	<b>.</b>	: :			:	. :	:	:	0	150 0
Outfall drain. Block VIII. (Campbelltown Hundred)	<b>2</b> ;	• ;	: :	<b>.</b> 1	: :	: :	: :	: :	50 0 0	20 0
Balfour Bridge, Mataura River (to account)		: :	` :	Wakatipu and Wallace	nd Wallace	:	:	•	0	900 0
Invercargill Hundred, Block XXII.	. 2	:	<b>⊢</b> i	Invercargill	:	:	:			
Main East Road, near Invercargill		:	:	)	:	100 0 0				100 0
Seaward Bush Roads	•	:	:		:	20	246 14 11	0	9 5 1	
Miller's Road, Hedgehope	*	:	:		:	100 0 0		0;		100 0
Seaward Bush Township (McQuarrie Road)	•	:	:	*	:		33 11 0	Ξ	166 9 0	
Invercargill-Tisbury	2	:	:		:	400 0 0	ć	٥ د	9	400 0
Maciean's Road, Seaward Bush	*	:	:	ŧ	:	,	0 8 0	n (	o or so	
Tisbury	•	:	:	*	:	0 0 007	(	<b>&gt;</b> (	:	0 007
Tramway Road	*	:	:		:	,	0 0 001	۰ د	:	
Appleby-Tisbury	Ł	:	:		:		•	9	:	
Waihopai Bridge		:	:	*	:	0	:	٠ :	•	
Tisbury-Waimatua		:	:	t	:	899 13 0		:: :::	,	٦.
Kingswell Creek		:	:	*	:	:	97 9 2		2	
Kingswell Creek-Seaward Bush	*	:	:	*	:				0	
Kingswell Creek-Seaward Bush, £1 for £1	*	:	:	*	:	16	190 3 6		9 91 601	_
Waimatuku Bush	*	:	- F	Awarua	:		0	0		750 0
Millwood Settlement	*	:	≥:	Mataura	:	0	:		•	
Bay Road-Otatara Bush	•	:	₹ :	Awarua	:	1,179 18 3	:	18	•	1,179 18
Otatara Bush	ŧ	:	:		:	0	:		•	200 0
		ţ				48 648 0 0	0 4KT 1K K	7 71 601 87	10 700 0 4	58 809 17 11
Callieu Iot wat u		•	_		:	4	27	4	>	

TABLE NO. 4—continued. STATEMENT showing the Net Expenditure on Roads. &c.—continued.

The Bush Railway.  The Bush Rail		_	ć	-		Ē		Total Net	Net Expenditure	Total Net	Liabilities on Authorities.	Total Net
Walknedsorm         Southhand         Awarus         10,000         1, 46, 58, 59         2, 457 15         6         46, 103 17         7         10,700         6, 46, 58, 59           Walknedsorm         Southhand         Investingill         10,000         0         20,00         0         20,00         0         20,00         0         20,00         0         20,00         0         20,00         0         20,00         0         20,00         0         20,00         0         20,00         0         20,00         0         20,00         0         0         20,00         0         20,00         0         20,00         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	Name of Work.		Con	ty.		Electorate	o.	Expenditure to 31st March, 1898.	12 Months ended 31st March, 1899.	Expenditure to 31st March, 1899.	Contracts, &c., 31st March, 1899.	Expenditure and Liabilities.
Wallacetown         Southland         Awarda            200         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         <	Brought forward Roads, Bringers, suc.—continued.		•			:	,	æ 62	£ s. ,457 15	£ s.	æ 0	
Awarus and Mataura   Color			land.			:	•	:	:	:	0	
Avarina and Mataura   Sign   10   10   10   10   10   10   10   1	Clifton-Seaward Bush	:	•		Invero	argill	:	4		4		
Awarina and Mataura   100   0   0   0   0   0   0   0   0	Glifton-Tisbury	:	·			:	:	4	19	$\frac{19}{1}$	0	
Awarus	Invercargili Hundred	* 		•	. Awaru	:	•	0 4	0	0 4	:	
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Mathaura and Mathaura   100	Block VIII., Winton Hundred	: :				: :	:	ì	: :	ì	0	0
	Blocks II. and III., Campbelltown	:	•	•		:	:	0	:	0	:	0
Awarua	Woodend-Bushy Point	:	•	•	. Awaru		ura	100	:	0;	:	
National State	Seaward Forest-Coast	:	•	•	. Matau	: &	:	12	:	15.1	:	12
National Section   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1	Campbelitown Hundred	:	•	•	. Awaru	:	:	<b>-</b>	:	<b>&gt;</b> <	:	
1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,00	Seaward Moss-Awarna Bay	:	•	•		: :	•	<b>-</b>	:	<b>-</b>	:	
1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000, 1,000,	Seaward Forest-Deferred-payment Block	: :				: :	: :	0	: :	0	: :	
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Mataura   Mataura   150   0   0   0   0   0   0   0   0   0	Granhalltown	:	•	•		:	:	2 =	:	2 5	c	2 6
Mataura   Mata	Bluff Road	: :	•	•	• :	: :	: :	-	C	-	4	86
"""         Awarua         """         700         0         44         15         10         744         15         10         255         0         0         500         10         500         0         10         500         0         10         10         250         0         0         10         200         0         0         200         0         0         200         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	Oteramika Block	: :	•	•		:	:	Н		-	0	520 1
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""" Hataura         """ Suppose the control of th	Mataura Island Dairy Factory-Pine Bush Railwa	.y.	•	•			:	0	:	0	0	
Mataura   Mataura	station Hokonii-Forest Hill		•			e.				:	C	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Timpany's Hill to Gorge Railway-station, Oteramil	Ka.				:::	: :	0	: :	0	)	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Toetoes, Block X.	:	•	•		:	:	:	:	:	0	
200 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 250 0 0 250 0 0 250 0 0 250 0 0 250 0 0 250 0 0 250 0 0 250 0 0 250 0 0 250 0 0 250 0 0 250 0 0 250 0 0 250 0 0 250 0 0 250 0 0 250 0 0 250 0 0 250 0 0 250 0 0 250 0 0 250 0 0 250 0 0 250 0 0 250 0 0 250 0 0 250 0 0 250 0 0 250 0 0 250 0 0 250 0 0 250 0 0 250 0 0 250 0 0 250 0 0 250 0 0 250 0 0 250 0 0 250 0 0 250 0 0 250 0 0 250 0 0 250 0 0 250 0 0 250 0 0 250 0 0 250 0 0 250 0 0 250 0 0 250 0 0 250 0 0 250 0 0 250 0 0 250 0 0 250 0 0 250 0 0 250 0 0 250 0 0 250 0 0 250 0 0 250 0 0 250 0 0 250 0 0 250 0 0 250 0 0 250 0 0 250 0 0 250	Owari Bridge					:		0		_		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Mokoreta Valley (£1 for £1)		•	•		:	•	•	:		:	•
2,385     611     1,247     5 1     3,632     0     580     14 4,213       1,499     18     2     1,499     18     2     1,499     18     1       1,499     18     2     3,038     14     3     341     6     8     3,880     0     11     411     12     411     12     411     12     411     12     411     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12     12 <t< td=""><td>Wynanam Briage (£1 10f £1)</td><td>:</td><td>•</td><td>•</td><td></td><td>:</td><td>:</td><td>&gt; 0</td><td>:</td><td><b>-</b></td><td>:</td><td>&gt; &lt;</td></t<>	Wynanam Briage (£1 10f £1)	:	•	•		:	:	> 0	:	<b>-</b>	:	> <
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Haldane Improved farm Settlement	:	•	•		:	:	2	10	9	14	ى د
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Wyndham via Mimihau-Otaraia	: :	•			: :	: :	18	,	18	1	8
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Waikawa Improved-farm Settlement	: :	٠	•		:	:	14	9	0	12	13
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Waikawa-Wyndham Valley	:	•	•		:	:	Ç	0	10	13	6
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Moturimu improved-farm Settlement	:	•	•	•	:	:	ဗ	8	বা (	<del></del> (	9
70,048 13 5j 5,615 19 9 75,664 13 2 14,605 17 5 90,270	Fortrose-Tokanul-Walkawa Molomote Blooks VII and IV (£1 for £1)	:		•		:	:	0	:	0	0	
70,048 13 5; 5,615 19 9 75,664 13 2 14,605 17 5 90,270	MICACLEGE, MICACE VIII. GILL LIN. (641 LOI 541)	:	•	•		:	•	:		:	-	-
	Carried forward		•			:		13	5,615 19	13	17	

TABLE NO. 4—continued.
STATEMENT showing the New Expenditure on Roads. &c.—continue

		County			Electorate.	Total Net Expenditure to 31st March, 1898		12 Months ended	Total Net Expenditure to 31st March, 1899.	Authorities, Contracts, &c., 31st March, 1899.	Total Net Expenditure and Liabilities.
Brought forward ROADS, BRIDGES, ETC.—continued.	•	:			:	£ s. 70,048 13	3 . 3.	£ s. d. 5,615 19 9	£ s. d. 75,664 13 2	£ s. d. 14,605 17 5	£ s.
Southland Land District—continued. Southland Bridges and Fortrose Jetty (flood-damages)		Southland	:	Mataura	:			:	0		
Waikawa, Block VII.	· :	:	•		:	92 11	1 6	116 3 11	208 15 5	93 16 1	302 11
Waikawa (II.) Block	:	:	•	•	:	:			4	150 0	
waikawa Bridge	:	:	:	2	:	:	-	250 0 0	250 0 0	:	250 0
Walkawa-Otara	:_	:	:	*	:		7 4	:		::0	
Querry Hills		: :	: :	e 1	: :	::	0	:	100 0 0		000
Block XIV., Mokoreta			: :	ŧ 1	: :	: :	···-	116 18 1	φ Έ	33 :	150
Mokoreta-Scrubby Hill Block	:	:	: :		::	492		,	2 62	1,075	1.567 1
Waikawa-Otara Block	:	:	•	: 1	:	7,329	12 5	267 10 1	01	532 9	8,129
Otara to Waikawa and Bridge, over Tokanu	:	;: •	:	×	:				c		
Waikawa District	:						5 7	476 13 4	10,260 18 11	9	11,584
Gore-Pukerau	:		:	Mataura and	and Clutha	:		:	:	0	150 (
Graham Koad	:	:	:	Mataura	:	:		:	:	0	_
Mara Bridge Koad, Block VII., Walkawa	•	:	:	•	:	:		:	:	0	100 0
Neil's Eoga to termination of Seaward Bush Kallway	<b>78</b>	:	:	۵	:	:		:	:	0 (	_
Seaward Downs	:	:			:	:		:	:	0	0 000
Whikawa Dlock VIII.	:	:	:	•	:			:	:	0 (	200
Walliamaka-Diota VII., Mokofeta	:	:	:	•	:	:		:	:	<b>&gt;</b> c	067
Mimiban Bridge	:	;	:	*	:	:	<b>_</b>	:	:	0	_
Line of Hundreds	Son	Southland and Wall	Wallace	Wallace and	and Awarna	:		:	•	350 0 0	200 0
Heddon Bush-Centre Bush	: :			Awarua	Awarua and Wallace	: :		: :			
Bridge over Oreti at Elbow	:		: :	Wallace		6		: :		202	_
Kelso-Waikaka	Sou	Southland and Cluth	Clutha	Wakatipu	u and Clutha		9 8	: :	1,000 8 6	•	1.000 8
Manapouri-Dusky Sound	Wa	llace and Fo	rd	Wallace	:				<u>.</u>	0 092	
Te Anau-George Sound	∴ Wa.	Wallace	:	*	••			335 16 9	7 1		504 1
Te Anau Jetty	:	:	:	•	:				0		140 0
Manapouri-Le Anau	:	:	:		:			165 13 0		54 7 0	250
Mossburn-Te Anau	:	:	:	•	:			:	19	300	1,607 1
Mossburn Bridge	:	:	;	*	:			;	0	;	
Mossburn-Manapouri	:	:	:		:		0		0	:	
Mararoa Bridge	•	:	:	>	:			2 6 0		268 15 0	
sekmount to U.F. land	:	:	:	ŧ	:	425	0	:	425 0 0	:	41
Small-grazing Kun, No. 23	:	:	:	*	:			:		50 0 0	20
rse-bridge, wairaki kiver	:	:	:	*	:		0 0			:	100 0
tok Creek Bridge and Koad	:		:	8	•	:		122 10 0	122 10 0	77 10 0	
Black Creek Bridge	:	:	:	•	•				:	:	
Papatotara—Improved farm Settlement	:	:	:	*	:	2,389	8 0	63 10 5	Н	336 9 7	2,789 0
Avondale Saddle	:		:	*	:			0	0	:	
Lonneker Settlement	:	:	•	•	:		0 0		0	:	250
Lillburn Reads	:	:	:	*	:		8 6	47 11	949   1	21 5	
Waiau Bridge, Clifden (to account)	:	:	:	*	:	196		3,673 17 3	3,870 9 4	<del>-</del>	5.085
Orawia-Clifden	:		:	*	:	:		12	12	427 8	`
											1
(Brried forward	_			_		100 100		C	•		

TABLE No. 4-continued.

, &c.—continued
on Roads
EXPENDITURE
NET
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showing
STATEMENT
•

Brought forward ROADS, BRIDGES, ETC.—continued. SOUTHLAND LIAND DISTRICT—continued. Clifden Ferry-Eastern Bush (Limestone Gorge) Clifden-Redeliff Greek Heddon Bush Grassy Greek Wreys Bridge (subsidy) Lillburn, Monowai, and Alton Tracks-McLaren's Run Lower Waiau Ferry Otautau Bridge (subsidy) Fairfax Bridge (subsidy) Fairfax Bridge (to account) Longwood, Blocks XVI. and I. Orepuki-Waiau	: :::::::::::::::::::::::::::::::::::::	Wallace	::::::::::::	Wallace		Expenditure to 31st March. 1898.  \$\mathbb{E}\$ s. d. 98,196 11 10  \$300 0 0  \$150 0 0  \$150 0 0  \$1,190 0 0  \$9,000 0 0	12 Months ended 31st March, 1899 d	Expenditure to 31st March, 1899. \$2. d. 109, 723 13 10	Authorities, Contracts, &c., 31st March, 1899.	Expenditure and Liabilities.  £ s. d. 133,862 9 10
Brought forward  ROADS, BRIDGES, ETC.—continued.  SOUTHLAND DISTRICT—continued. Clifden Ferry-Eastern Bush (Limestone Gorge) Clifden-Redeliff Greek Heddon Bush Grassy Greek Wreys Bridge (subsidy) Lillburn, Monowai, and Alton Tracks-McLaren's Run Lower Waiau Ferry Otautau Bridge (subsidy) Fairfax Bridge (subsidy) Fairfax Bridge (to account) Longwood, Blocks XVI. and I. Corepuki-Waiau Longwood, Blocks XVI. and XVII. Riverton-Orepuki Jacob's River (subsidy) Orepuki-Wairaurahiri	1 :::::::::::::::::::::::::::::::::::::	llace	:::::::::::::::::	(a)laoe	:::::::::::::::::::::::::::::::::::::::	8. 0 111 10 0 0 0 0	²⁰ , C2	. s	s. 16	a. c
ROADS, BRIDGES, ETC.—continued. SOUTHLAND LIAND DISTRICT—continued. Clifden Ferry-Eastern Bush (Limestone Gorge) Clifden Redelliff Creek Heddon Bush Grassy Oreek Wreys Bridge (subsidy) Lillburn, Monowai, and Alton Tracks-McLaren's Run Lower Waiau Ferry Otautau Bridge Otautau Bridge Longwood, Blocks XVI. and I. Longwood, Blocks XVI. and X.	: :::::::::::::::::::::::::::::::::::::	Ilace	:::::::::::::::::::::::::::::::::::::::	Allace		0 0000	i	3	4	,
Colthalan Dany Land Land Land Contented. Colifden Ferry-Eastern Bush (Limestone Gorge) Clifden-Redeliff Creek Heddon Bush Grassy Oreek Wreys Bridge (subsidy) Lillburn, Monowai, and Alton Tracks-McLaren's Run Lower Waiau Ferry Otautau Bridge (subsidy) Fairfax Bridge (subsidy) Fairfax Bridge (to account) Longwood, Blocks XVI. and I. Corepuki-Waiau Longwood, Blocks XVI. and X. Corepuki-Wairaurahiri	:::::::::::::::::::::::::::::::::::::::		:::::::::::::::::::::::::::::::::::::::	Allace		0 0000	_			_
Heddon Bush Grassy Greek Wreys Bridge (subsidy) Lillburn, Monowai, and Alton Tracks-McLaren's Bun Lower Waiau Ferry Otautau Bridge (subsidy) Fairfax Bridge (to account) Longwood, Blocks XVI. and I. Corepuki-Waiau Longwood, Blocks XVI. and X. Aparima Bridge Longwood, Blocks XVI. and X. Longwood, Blocks XVI. and X. Aparima Bridge Longwood, Blocks XVI. and X. Aparima Bridge Longwood, Blocks XVI. and X. Aparima Bridge Corepuki-Wairaurahiri						0000		0		300 0 0
Grassy Creek  Wreys Bridge (subsidy)  Lillburn, Monowai, and Alton  Tracks-McLaren's Run  Lower Walau Ferry  Otautau Bridge (subsidy)  Fairfax Bridge (to account)  Longwood, Blocks XVI. and I.  Crepuki-Walau .  Longwood, Blocks XVI. and X.  Aparima Bridge .  Longwood, Blocks XVI. and X.  Longwood, Blocks XVI. and X.  Longwood, Blocks XVI. and X.  Aparima Bridge .  Longwood, Blocks XVI. and X.  Aparima Bridge .  Longwood, Blocks XVI. and X.  Orepuki-Orepuki  Jacob's River (subsidy)  Orepuki-Wairaurahiri	:::::::::::::::::::::::::::::::::::::::					0000	59 10 0	-		0
Grassy Oteek Wreys Bridge (subsidy) Lillburn, Monowai, and Alton Tracks-McLaren's Run Lower Waiau Ferry Otautau Bridge (2000) Fairfax Bridge (to account) Longwood, Blocks XVI. and I. Corpuki-Waiau XII. Longwood, Blocks XVI. and XVI. Longwood, Blocks XVI. and XVI. Longwood, Blocks XVI. and XVI. Longwood, Blocks XVI. and XVII. Riverton-Orepuki Jacob's River (subsidy) Orepuki-Wairaurahiri	:::::::::::::::::::::::::::::::::::::::			*********		000	•	0	150 0 0	0
Wreys Bridge (subsidy)  Lillburn, Monowai, and Alton Tracks-McLaren's Run Lower Waiau Ferry Otautau Bridge Otautau Bridge (subsidy)  Pairfax Bridge (to account) Longwood, Blocks XVI. and I.  Longwood, Blocks XVI. and X.  Aparima Bridge Longwood, Blocks XVI. and X.  Longwood, Blocks XVI. and X.  Aparima Bridge Longwood, Blocks XVI. and XVII.  Riverton-Orepuki Jacob's River (subsidy) Orepuki-Wairaurahiri			:::::::::	********		<b>-</b>	:	0	:	0
Lillburn, Monowal, and Alton Tracks-McLaren's Run Lower Waiau Ferry Otautau Bridge Otautau Bridge (subsidy) Fairfax Bridge (to account) Longwood, Blocks XVI. and I. Corputi-Waiau Longwood, Blocks XVI. and X. Aparima Bridge Longwood, Blocks XVI. and XII. Riverton-Orepuki Jacob's River (subsidy) Orepuki-Wairaurahiri	:::::::::::::::::::::::::::::::::::::::		::::::::			<b>-</b>	:		:	_
Tracks-McLaren's Kun  Lower Waiau Ferry  Otautau Bridge (subsidy)  Fairfax Bridge (to account)  Longwood, Blocks XVI. and I.  Crepuki-Waiau  Longwood, Blocks XVI. and X.  Aparima Bridge  Longwood, Blocks XVV. and X.  Aparima Bridge  Longwood, Blocks XVV. XVI., and XVII.  Riverton-Orepuki  Jacob's River (subsidy)  Orepuki-Wairaurahiri				*****		ć	:	0	:	
Lower Walau Ferry  Otautau Bridge  Otautau Bridge (subsidy)  Fairfax Bridge (to account)  Longwood, Blocks XVI. and I.  Corpuki-Walau  Longwood, Blocks XVI. and X.  Aparima Bridge  Longwood, Blocks XV, XVI., and XVII.  Riverton-Orepuki Jacob's River (subsidy)  Orepuki-Wairaurahiri	:::::::::::::::::::::::::::::::::::::::		:::::::			<u>ا</u> د		o į		40 0 0
Otautau Bridge (subsidy)  Fairfax Bridge (subsidy)  Longwood, Blocks XVI. and I.  Corpuki-Waiau  Longwood, Blocks XVI. and X.  Aparima Bridge  Longwood, Blocks XV., XVI., and XVII.  Riverton-Orepuki Jacob's River (subsidy)  Orepuki-Wairaurahiri	::::::::::::		::::::			<u>-</u>	0.81.80	11 61 821	140 1 7	274 17 6
Fairfax Bridge (to account) Longwood, Blocks XVI. and I. Orepuki-Waiau Longwood, Blocks XVI. and X. Aparima Bridge Longwood, Blocks XV., XVI., and XVII. Riverton-Orepuki Jacob's River (subsidy) Orepuki-Wairaurahiri	::::::::::		:::::			950	:		•	<b>-</b>
Longwood, Blocks XVI. and I. Crepuki-Waiau Longwood, Blocks XVI. and X. Aparima Bridge Longwood, Blocks XV, XVI., and XVII. Riverton-Orepuki Jacob's River (subsidy) Orepuki-Wairaurahiri	: : : : : : : :		:::::			>	:	>	300	> =
Orepuki-Waitau Longwood, Blocks XVI. and X. Aparima Bridge Longwood, Blocks XV., XVI., and XVII. Riverton-Orepuki Jacob's River (subsidy) Orepuki-Wairaurahiri	:::::::	: : : : : :	::::			1.649 14 10	15			4
Longwood, Blocks XVI. and X.  Aparima Bridge Longwood, Blocks XV, XVI., and XVII. Riverton-Orepuki Jacob's River (subsidy) Orepuki-Wairaurahiri	::::::		: : :		:::	: :	74 3 6	က	16	200
Aparima Bridge Longwood, Blocks XV., XVI., and XVII. Riverton-Orepuki Jacob's River (subsidy) Orepuki-Wairaurahiri	:::::		:		:	258 0 11			2	0
Longwood, Blocks XV., XVI., and XVII. Riverton-Orepuki Jacob's River (subsidy) Orepuki-Wairaurahiri	::::						:	0	•	100 0 0
Riverton-Orepuki Jacob's River (subsidy) Orepuki-Wairaurahiri	:::	:	:		:	Ξ	399 6 0		200 14 0	858 11 6
Jacob's River (subsidy) Orepuki-Wairaurahiri	::		:	:	:	549 13 6	:	13	:	549 13 6
Orepuki-Wairaurahiri	:	:	:	:	:	0		0	:	300 0 0
1 . ;		:	:		:		334 13 7		9	4,352 7. 2
Riverton-Colac Bay		:	:		:	0 009	:	0	0	0 0 008
Otautau Stream Bridge	:	:	:	•	:	:	:	:	0	0
Aparima Protective Works, £1 for £1	:	: .	:	•	:	•	:	:	0	100 0 0
Clifden Bridge-Papatotara	:	:	:		:	:	:	:	0	250 0 0
Clitden-Otatau (Main Koad)	:		:	•	:	:	:	:	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 007
Dipton-Hamilton Burn	:	:	:		:	:	:	:	> <	0 007
Forde's Koad (Groper's Bush)	:	:	:		:	:	:-	: -	<u>ء</u> د	
Mononcui-Flows Chook	:	:	:		:				2 C	
Redeliff Mananouri	:	:	:		: :	:	. rc	. xc	6	<b>C</b>
Sunnveide-Woodlands	: :	: :	: :	. :	: :	: ;		>	90	·.
Waisu District. Blocks VIII. and X. (sheep-tra-	30k)	: :	: :		: :	: :	: ;			0
Half-moon Bay Wharf, Stewart Island	:	Stewart Island	A	warua	:	0	:	150 0 0	100 0 0	250 0 0
Half-moon Bay Tramway	:	*	:		:		:	_	•	0
Port William-Half-moon Bay	:	"	:		:	250 0	:	0	:	0
Stewart Island roads	:	ŧ	;		:	2,590 12 5	:	2,590 12 5	•	21.0
Stewart Island Whart	:	*	:		:	c	:	:	700 0	<b>O</b>
Sundry roads	•	:		•		7	:	77 0	•	
Sundry roads (Native labout)	:	:		•		96 20	:	0 % % O	0 000	969 15 0
Village Severellenes (see also defleral) Direchose of reads	:	:		:		3	:	3	>	2
To onen in Southland ring	:	:		:		10	:	10	:	10
Miscellaneous and Engineering	: :	: :		::		2,548 9 0	106 10 4	2,654 19 4	193 9 8	2,848 9 0
					•					
Total, Southland	:	•		:		132,468 1 3	12,623 13 8	145,091 14 11	29,402 4 4	174,493 19 3

TABLE No. 4—continued.

	County.	Electorate.	Total Net Expenditure to 31st March, 1898.	Net Expenditure during 12 Months ended 31st March, 1899.	Total Net Expenditure to 31st March, 1899.	Luabilities on Authorities, Contracts, &c., 31st March, 1899.	Total Net Expenditure and Liabilities.
			æ s. d.	8. 8. d.	ж я. д.	£ s. d.	£ 8. d.
GENERAL:- Expenditure under miscellaneous public works votes	:	:	322,358 5 4	:	322,358 5 4	:	322,358 5 4
(see Table No. 7 of 1884) Works not specifically appropriated—viz., roads,	:	:	1,429 14 4	480 9 0	1,910 3 4	914 4 6	2,824 7 10
bridges, and drains Miscellaneous and Engineering—Main Roads	:	:	14	,	33 14	,	33 14 0
Schools in authying districts Improved farms not specifically appropriated—viz.,	::	::	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	. 25 0	1,978 13 0 Cr. 10 0 0	125 0 0 500 0 0	
for felling, clearing, building, fencing, grassing, tools. explosives. &c.							
Miscellaneous and Engineering—Roads to give access	:	:	204 4 0		204 4 0		204 4 0
Miscellaneous roads and bridges in Inative districts Native land nurchases—Surveys	: :	: :		105 5 5	-		# £
Native land purchases—New purchases	:	:	Η,	:	C	500 0 0	т;
Portion of subsidies to local bodies Contingencies and subsidies to local bodies for pro-	::	::	143,553 12 11 54,308 16 1	::	143,553 12 11 54,308 16 1	::	143,553 12 11 54,308 16 1
viding work for unemployed			100		03 075 15 11		#F 67# 60
Co-operative work for unemployed — viz., roads, drains, passages, tools, stores, tents, &c.	•	•	9	•	T:	1,105 0 0	G.
Advance to co-operative workmen for dwelling-	:	•	157 10 0	•	157 10 0	240 0 0	997 10 0
nouses Flood-damages to roads and bridges (to account) Miscellaneous—Roads and material	: :	::	5,037 18 10 1,319 18 1	9,544 3 6	14,582 2 4	4,417 17 8 120 16 2	19,000 0 0 1,519 18 1
GRANTS-IN-AID:		:	;	)	' ;	ì	, ,
Grants in aid under "The Roads and Bridges Construction Act, 1882"	:	:	375,213 14 10	:	875,213 14 10	:	375,213 14 10
LOCAL BODIES:			10		ĸ		ĸ
Village settlements (see also Village Settlements, under Ford Districts)	::	::	51,095 17 6	: :	51,095 17 6	200 0 0	51,295 17 6
Purchase of land for roads	:	•	:	691 9 2	691 9 2	8	
Wire rope for bridges	:	•	:	:	:	1,000 0	1,000
Auvance to improved tarm seturis for numings, oardens fences &c.	•	:	•	•	:	>	
Refund of revenue credited to Vote 91 in error	:	•	•	Cr. 3 8 0	Cr. 3 8 0		Cr. 380
Total, General	•	:	999,001 15 7	10,980 2 9	1,009,981 18 4	11,711 3 11	1,021,693 2 3
Grand Total	:	:	4,477,564 11 8	265,905 3 2	4,743,469 14 10	299,742 9 4	5,043,212 4 2

TABLE No. 4—continued. STATEMENT showing the Net Expenditure on Roads, &c.—continued.

					&c.—continue	
<u> </u>	Net Expe to 31st Mare	•	Net Expenditure during 12 Months ended 31st March, 1899.	Expenditure to	Liabilities on Authorities, Contracts, &c., 31st March, 1899.	Total Net Expenditure and Liabilities.
	£	s. d.	£ s. d.	£ s. d.	£ 1. d.	£ s. d.
ROADS ON GOLDFIELDS:— Subsidies towards the construction of roads and tracks in mining districts, and minor works for the		5 0	4,752 17 9	101,177 2 9	2,473 0 8	103,650 3 5
development of minerals, upon a subscription of one-half being contributed						
Roads to open up mineral lands AUCKLAND:—	1,885	11 1		1,885 11 1		1,885 11 1
Assistance to Piako County Council towards constructing tramway from Te Aroha Mountain to	•	0 0		6,000 0 0	•••	6,000 0 0
batteries Opening Mokau River for develop	552	8 0		552 8 0		552 8 0
ment of coal-mine Kuaotunu to Coromandel Whakapara to Puhipuhi	950	0 0 0 0	100 0 0	1,470 0 0 350 0 0	100 0 0	1,470 0 0 450 0 0
Kiripaka to Coal-mines	100		80 0 0	80 0 0	20 0 0	100 0 0
Helena Bay to Whakapara Gordon Settlement to Waharoa	COO			100 0 0 600 0 0		100 0 0 600 0 0
Waiorongomai Road Approach to railway bridge, Te	300 150			300 0 0 150 0 0	150 0 0	450 0 0 150 0 0
Archa Thompson's Track	1 015	19 11 0 0	510 0 0	3,523 19 11 2,325 0 0	500 0 0 290 0 0	4,023 19 11 2,615 0 0
Hikutaia to Waihi Upper Waitekauri Bridge	250	0 0		250 0 0		250 0 0
Paeroa to Waitoa Road formation, Waitekauri to Cross Road		13 4 11 11	379 8 9	585 2 1 271 11 11	550 11 3	1,135 13 4 271 11 11
Junction Waihi Road to New Find Waitekauri	328	8 0		328 8 0		328 8 0
Waihi to Whangamata Paeroa to Te Aroha	000	0 0	58 6 0 82 1 5	358 6 0 747 1 5	141 14 0 117 18 7	500 0 0 865 0 0
Karangahake Bridge	113	8 7	405 13 8 98 8 6	519 2 3 98 8 6		519 2 3 98 8 6
Waitekauri to Wharekiraupunga Hikutaia to Waitekauri	1		614 5 4	614 5 4	135 14 8	750 0 0
Komata Reefs to Paeroa Komata Reefs to Waitekauri	1		300 0 0 200 0 0	300 0 0 200 0 0	200 0 0	500 0 0 200 0 0
Tairua to Whenuakite	250	0 0	150 0 0 200 0 0	400 0 0 610 0 0	50 0 0 100 0 0	450 0 0 710 0 0
Tiki to Kaimarama Mercury Bay to Whenuakite and Boat Harbour			200 0 0	500 0 0	50 0 0	550 0 0
Tiki to Opitonui (£1 for 1£)	410	58	200 0 0	618 5 8	400 0 0 200 0 0	400 0 0 818 <b>5</b> 8
Tapu Creek extension Thames to Waikawau	1,350	11 7	385 0 0	1,735 11 7	115 0 0	1,850 11 7
Thames to Hikutaia Puru Creek Road	1 200	$\begin{array}{ccc} 0 & 2 \\ 0 & 0 \end{array}$	225 19 11 100 0 0	1,431 0 1 400 0 0	100 0 0 0 200 0 0	1,531 0 1
Turua to Netherton Hikutaia to Whangamata, "Wires"	350 671		300 0 0 355 17 7	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	350 0 0 144 11 0	1,000 0 0 1,172 0 0
Track Upper Waiotahi Road	409			492 10 0		492 10 0
Inland from Omahu	400	0 0		400 0 0		400 0 0
Upper Tararu Road	190		61 5 10	200 0 0	264 0 0 189 0 0	1,067 0 2 389 0 0
Puriri to Tairua Wharepoa Settlement Road	900		203 5 2 88 5 0	1,140 1 6 368 11 5	397 4 3 111 0 0	1,537 5 9 479 11 5
Omahu to Whangamata	106	4 0	743 16 0 100 0 0	850 0 0	375 0 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Drains, Hikutaia Roads, Katikati and Tauranga	590	0 0	696 17 5	1,226 17 5	1	1 226 17 5
Roads, Great Barrier Island Waikawau to Manaia	1 7 700		200 0 0	1,700 0 0	500 0 0	604 4 2 2,200 0 0
Tapu to Waikawau	750	10 0		750 10 0		750 10 0
Thames to Manaia Whangamata Harbour to Reefs	141	10 6		141 10 6		500 0 0 141 10 6
Karangahake through Ohinemur Gorge			,	1,000 0 0		1,000 0 0
Tereohanga Gorge to Puhipuhi Cabbage Bay to Port Charles	800 1,685	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	200 0 0	800 0 0 1,885 0 0	200 0 0	800 0 0 2,085 0 0
Tiki to Mahakirau	250	0 0	100 0 0	250 0 0 1,200 0 0	150 0 0	250 0 0
Kuaotunu to Mercury Bay Karangahake to Waihi	468	15 0	100 0 0	468 15 0		468 15 0
Tiki to Waikawau Waitekauri to New Find	600 250	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$		600 0 0 250 0 0		600 0 0 250 0 0
Sylvia up Tararu Creek	150 150	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$		150 0 0 150 0 0		150 0 0 150 0 0
Driving Creek to Cape Colville	175	0 0		175 0 0		175 0 0
Cabbage Bay to Mines Bridge over Waitekauri Creek		0 0		400 0 0	160 0 0	400 0 0 160 0 0
Carried forward	124 406	2 2	12,268 11 7	146,764 13 9	8,734 14 5	155,499 8 2

TABLE No. 4-continued. STATEMENT showing the NET EXPENDITURE on ROADS, &c.—continued.

STATEMENT SHO	wind me Mea	LEXPENDITOR	E OH LUCADS,	ac.—continue	a.
	Net Expenditure to 31st March, 1898.	10 Mantha and 3	Total Net Expenditure to 31st March, 1899.	Liabilities on Authorities, Contracts, &c, 31st March, 1899.	Total Net Expenditure and Labilities.
Brought forward ROADS ON GOLDFIELDS—continued.	£ s. d. 134,496 2 2	£ s. d. 12,268 11 7	£ s. d. 146,764 13 9	£ s. d. 8,734 14 5	£ s. d. 155,499 8 2
AUCKLAND—continued. Grace Darling Road		142 0 0	142 0 0	75 0 0	217 0 0
Waitekauri to Golden Cross		539 14 6	539 14 6	515 5 6	1,055 0 0
Roads, Netherton		45 0 0	45 0 0	<b>155</b> 0 0	200 0 0
Mangaiti and Waitoa Road and	•••	77 13 9	77 13 9	72 6 3	150 0 0
Punt River Protection-works, Te Aroha		200 0 0	200 0 0	·	200 0 0
Coromandel to Cabbage Bay	250 0 0	250 0 0	500 0 0	100 0 0	600 0 0
Tokatea to Kennedy Bay	200 0 0	200 0 0	400 0 0	<b>3</b> 00 0 0	700 0 0
Tiki to Manaia	300 0 0	250 0 0	550 0 0	100 0 0	650 0 0
Manaia to Mines Whitiange to Mahakiran	100 0 0 300 0 0	150 0 0	100 0 0 450 0 0	50 0 0	100 0 0 500 0 0
Whitianga to Mahakirau Whangapoua Mill Road	100 0 0		100 0 0		100 0 0
Kuaotunu Bridge	200 0 0	J	200 0 0		200 0 0
Coromandel to Whangapoua		200 0 0	200 0 0	200 0 0	400 0 0
Coromandel to Kuaotunu via Mata-	•••	350 0 0	350 0 0	350 0 0	700 0 0
rangi Kikowhakarere to Cabbage Bay		200 0 0	200 0 0	100 0 0	<b>3</b> 00 <b>0</b> 0
Extending Wharf Road, Coromandel		.,,		500 0 0	500 U 0
Bridge, Ring's Road		•••	•••	250 0 0	250 0 0
Taumatawahine Bridge			,,,	300 0 0	300 0 0
Tokatea to Matamataharakeke Cemetery Road, Kuaotunu	•••		***	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	100 0 0 100 0 0
Whitianga to Kaimarama	•••	,		150 0 0	150 0 0
Mahakirau Goldfield Road	• • • • • • • • • • • • • • • • • • • •		,	100 0 0	100 0 0
Tiki to Matawai			•••	150 0 0	150 0 0
Tiki to Te Koumu Opitonui Road		•••		100 0 0 200 0 0	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
Repairs, Mata Bridge		300 0 0	300 0 0	200 0 0	300 0 0
Waiomo to Mines				200 0 0	200 0 0
Tauranga to Te Puke				200 0 0	200 0 0
Waihi to Katikati	,	•••		500 0 0 150 0 0	500 0 0 150 0 0
Papamoa to Te Puke  Blind Bay to Whangaparapara		509 10 2	509 10 2	65 9 10	575 0 0
NELSON:—		000 10 2	000 10 1	00 0 10	0,0 0 (
Repairs to Nile Bridge Lyell to Mokihinui via Eight-mile Mokihinui Quartz-reefs to Specimen	831 2 6 5,098 8 6 1,238 7 5		831 2 6 5,098 8 6 1,238 7 5	***	831 2 6 5,098 8 6 1,238 7 5
Creek Brighton to Seventeen-mile Beach viâ Terraces	1,789 7 2	•••	1,789 7 2		1,789 7 2
Cobden to Seventeen-mile Beach	3,436 1 4		3,436 1 4		3,436 1 4
Wangapeka to Karamea	2,000 0 0		2,000 0 0		2,000 0 0
Aorere Valley to Karamea and Moki-	29,938 1 2		29,938 1 2		29,938 1 2
hinui Owen Valley Road Hatter's Terrace to Bell Hill and	2,208 9 2 1,650 0 0		2,208 9 2 1,650 0 0		2,208 9 2 1,650 0 0
Haupiri Larry's Creek to Lyell Road, near		•••	423 10 0	•••	423 10 0
Dee River (subsidy of £1 for £1)	722 8 0		722 8 0		<b>72</b> 2 8 0
Bridle-track to Upper Anatoki Hatter's Terrace Road (£1 for £1	722 8 0 400 0 0		400 0 0		400 0 0
subsidy) Deep Creek to Bell Hill (£1 for £1	365 10 0		365 10 0		365 10 0
subsidy) Irishman's to Lake Brunner (£1 for			900 0 0	·	900 0 0
£1 subsidy)					
Improving roads and tracks, Collingwood to Takaka, Motueka,	11,005 18 11	•••	11,005 18 11	•••	11,005 18 11
and Karamea Ahaura to Amuri	2,504 19 7		2,504 19 7		2,504 19 7
Blackball Track	1,185 12 5	••	1,185 12 5		1,185 12 5
Ahaura to Kopara Road	400 0 0		400 0 0		400 0 0
Nelson Creek Bridge	100 0 0 198 5 0	•••	100 0 0 198 5 0		100 0 0 198 5 0
Soldier's Creek Road Gannon's to Painkiller	196 10 6	· · ·	196 10 6	,	196 10
Pain's Ford Bridge	798 13 10		798 13 10		798 13 10
Red Hill Road	249 8 1	•••	249 8 1	•••	249 8 1
Track, Slate River to Rocky	225 0 0 100 0 0	•••	225 0 0 100 0 0	•••	$egin{array}{cccccccccccccccccccccccccccccccccccc$
Pack-track to Kill Devil Waimangaroa to Denniston	100 0 0		100 0 0	•••	100 0 0
Road to Lyell's Creek Extended	200 0 0		200 0 0		200 0
Company's Tunnel	100 0		100 0 0		100 0 0
Road to Oparara Diggings	100 0 0	***	100 0 0 197 11 0	•••	$100 \ 0 \ 0$ $197 \ 11 \ 0$
Track to diggings, Cape Foulwind Cobden to Coal Creek	375 0 0	•••	375 0 0	•••	375 0 0
Mackley's to Waipuna Terrace	100 0 0		100 0 0	•••	100 0 0
Gaminal farmena	904.094.6.6	15 600 10 0	220 666 16 0	12 217 16 0	984.494 19 6
Carried forward	204,984 6 9	15,682 10 0	220,666 16 9	13,817 16 0	234,484 12 9

TABLE No. 4—continued.
STATEMENT showing the NET Expenditure on Roads, &c.—continued.

STATEMENT show	wing the NET	EXPENDITUR	E on Roads,	&c.—continue	a.
	Net Expenditure to 31st March, 1898.	Net Expenditure during 12 Months ended 31st March, 1899.	Expenditure to	Liabilities on Authorities, Contracts, &c., 31st March, 1899.	Total Net Expenditure and Liabilities.
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
Brought forward	204,984 6 9	15,682 10 0	220,666 16 9	13,817 16 0	234,484 12 9
ROADS ON GOLDFIELDS-continued.					
Nelson—continued.	350 0 0		150 0 0		150 0 0
Footbridge over Blackball Creek	150 0 0 300 0 0		150 0 0 300 0 0		300 0 0
Road to Barrytown	523 5 1		523 5 1		523 5 1
Ngahere to Blackball	400 0 0		400 0 0		400 0 0
Big River Road	2,602 14 11		2,602 14 11		2,602 14 11
Approaches, Matakitaki Bridge	279 15 0		279 15 0	•••	279 15 0
Bridge, Karamea River	3,565 19 8		3,565 19 8	•••	3,565 19 8
Brown's Terrace to Arnold	200 0 0 175 0 0	•••	200 0 0 175 0 0		200 0 0 175 0 0
Brunnerton to Paparoa Track to Adamstown	175 0 0 375 4 0		375 4 0	•••	375 4 0
Track to Adamstown Hampden to Horse Terrace	3,450 18 6	•••	3,450 18 6		3,450 18 6
Repairing bridges, Staunton's and	200 0 0		200 0 0		200 0 0
Doctor's Creeks					
Granity Creek to Ngakawau	100 0 0	***	100 0 0	•••	100 0 0
Four-mile Bridge	100 0 0	•••	100 0 0	•••	100 0 0
Fox's Bridge	100 0 0	•••	100 0 0 200 0 0		100 0 0 200 0 0
Fairdown to Waimangaroa	200 0 0	•••	200 0 0 0 250 0 0		250 0 0
Track up Four-mile and Nile Rivers Charleston to Nine-mile Beach	250 0 0 200 0 0	***	200 0 0	•••	200 0 0
Road, Promised Land, Karamea	550 0 0	···	550 0 0		550 0 0
Track to Piper's Flat, Addison's	150 0 0		150 0 0		150 0 0
Snowy Creek Bridge	<b>3</b> 00 0 0	•••	300 0 0		300 0 0
Footbridge, Byewash, Ngahere, to	210 0 0	• • • • • • • • • • • • • • • • • • • •	210 0 0		210 0 0
Blackball Ferry					
Track to Healey's Gully	90 0 0	***	90 0 0		90 0 0
Lancashire Flat to head of Clear-	50 0 0	•••	50 0 0		50 0 0
water Creek	100 0 0		100 0 0	·	100 0 0
Granville Road	100 0 0 300 0 0	•••	300 0 0	•••	300 0 0
Bridges, Blackwater and Greenstone	300 0 0	***	200 0 0	***	
Wangapeka Track, Rolling River, to Kiwi Creek	149 19 10		149 19 10		149 19 10
Mud Flat to Karamea	112 13 6	•••	112 13 6		112 13 6
Fencing land, Blackball Road	110 0 0		110 0 0		110 0 0
Protective works, Main Grey Bridge	191 0 0	***	191 0 0		191 0 0
Richmond to Collingwood	<b>25</b> 0 0 0		250 0 0		250 0 0
Pakawau Bush Road	200 0 0	225 0 0	425 0 0		<b>425</b> 0 0
Road, Seddonville to Mokihinui	570 0 0	200 0 0	770 0 0	150 0 0	920 0 0
Track, Seddonville to Mokininui Mine	•••	900 0 0	900 0 0	150 0 0 0 250 0 0	150 0 0
Granity Creek southwards	150 0 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	50 0 0	450 0 0 450 0 0
Wilson's Lead Road	150 0 0 879 18 0	555 10 0	1,435 8 0	450 0 0	1,885 8 0
Maruia Road and horse-track vid	158 0 0	30 0 0	188 0 0	12 0 0	200 0 0
Caslani's	1 200				
Ahaura to Haupiri	200 0 0	•••	200 0 0	400 0 0	600 0 0
Moonlight to Paparoa	75 0 0	25 0 0	100 0 0		100 0 0
Bridges, Cobden to Seven-mile Road	275 0 0	67 10 0	342 10 0	75 0 0	342 10 0
Track, Fagan's Creek to top Paparoa	300 0 0	50 0 0	350 0 0	75 0 0	<b>425 0 0</b>
Range	700 0 0	586 10 0	1,286 10 0	314 0 0	1,600 10 0
Blackball Track to Paparoa Ranges	700 0 0		اند سیسا	100 0 0	1,600 10 0 200 0 0
Walkon's Creek Bridge	100 0 0	214 12 2	100 0 0 0 214 12 2		214 12 2
Walker's Creek Bridge Landing Creek Bridge		289 16 6	289 16 6		289 16 6
Improving ford, Granity Creek				300 0 0	300 0 0
Dee Creek Bridge	***			300 0 0	300 0 0
Mangles Bridge	248 0 8	811 7 9	1,059 8 5	2,388 2 3	3,447 10 8
Wangapeka to Wanganui	1,459 14 3	492 9 3	1,952 3 6	497 16 8	2,450 0 2
Table-land Horse-track	177 15 5	21 13 10	199 9 3		199 9 3
Belgrove to Westport and Reefton	5,464 1 8	1,464 6 9	6,928 8 5	35 13 3	6,964 1 8
Aorere Bridge		50 0 0	50 0 0	50 0 0	100 0 0
Inland road, Parapara to Takaka	;	•••	•••	500 0 0	500 0 0
Mud Flat portion, Takaka to Col-	•••	•••	***	200 0 0	200 0 0
lingwood Inland Road Karamea Track	la de Maria	100 0 0	100 0 0	150 0 0	250 0 0
Deadman's Creek to Christmas	150 0 0	100 0 0	250 0 0		250 0 0
Terrace	100 0				
Big Totara River Bridge		450 0 0	450 0 0		450 0 0
Little Totara River Bridge		<b>35</b> 0 0 0	350 0 0	•	<b>3</b> 50 0 0
Denniston to Cascade Creek		100 σ 0	100 0 0		100 0 0
Bradshaw's Lead Road		100 0 0	100 0 0	200 0 0	100 0 0
Road, Oparara River, Karamea	•••	200 0 0	200 0 0	200 0 0	400 0 0
Westport to Mokihinui		500 0 0	500 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	250 0 0	750 0 0 500 0 0
Mokihinui to Reefs (widening)		250 0 0	250 0 0	250 0 0 0 200 0 0	500 0 0 200 0 0
Road Stony Creek to Waimangaroa	•••	1,300 18 6	1,300 18 6	148 0 5	1,448 18 11
Denniston Hill Road  Mokihinui to Wanganui (improving)		250 0 0	250 0 0	350 0 0	600 0 0
Carried forward	231,828 7 3	24,917 4 9	256,745 12 0	21,588 8 7	278,334 0 7
		t garagen and a second			

TABLE No. 4—continued.
STATEMENT showing the NET EXPENDITURE on Roads, &c.—continued.

STATEMENT sh	OV.	ving the	: N	ET	EXPEN	DI	UR	E on K	OA.	DS,	«c.—c	nti —	nue	ea.		
		Net Exper to 31st March			Net Expe duri 12 Month 31st Marc	ng s en	ded	Total Expendi 31st Marc	ture	to	Liabilit Author Contrac 31st Marc	ritie ts, å	s, .c.,	Total N Expendi and Liabil	ture	
Dramaha Farrand		£ 231,828	s. 7	d. 3	£ 24,917	s. 4	d. 9	£ 256,745		d. 0	£ 21,588		d. 7	£ 278,334	s. 0	d. 7
Brought forward ROADS, BRIDGES, ETC.—continued.	.	201,020	•	,	==,U16	-2	•	200,120		J	,	•	٠		•	•
Nelson—continued.	·															
Road, Costello's Hill, Charlesto	n				150	0	0	150	0	0	300	0	0	450	0	0
(alteration)	1				}						175	Λ	Δ	185	0	Λ
		•••			250	0	0	250	. 0	0	175 250	0	0	175 500	0	0
Addison's Road to Buller Road					295		ŏ	295		0	154	3	ŏ	450	ŏ	ŏ
Snowy Creek to Reefs Road, Hampden Cemetery to School	ol				300		Ŏ.	300	0	Õ		_	-	300	0	0
House, Murchison	-										-					
DO TOUR OF D'					300	0	0	300	0	0	100	0	0	400	0	0
Culverts, Devil's Creek		•••			100	0	0	100	0	0	150	٠,	^	100	0	0
		•••			300 220	0	0	300 220	0	0	150 30	0	0	450 250	0	0
2.10-10, 10		225	0	0	200	Ö	Ö	425	ő	0	200	õ	ő	625	ŏ	ő
Paroa to Teremakau Widening road, Lyell to Eight-mil	 Ie	220	٠	v	250	ŏ	ŏ	250	ŏ	ŏ	150	ō	ŏ	400	0	ō
Canaan Road		200	0	0		_	-	200	0	0	100	0	0	300	0	0
											300	0	0	300	0	0
											500	0	0	500	0	0
									•		400	0	0	400 250	0	0
					200	0	0	300	. 0	0	250	U	v	300	O.	0
					300 450	0	0	450	0	0	300	0	0	750	ő	0
**************************************	::				100	ö	0	100	o	ŏ	150	ŏ	ŏ	250	ŏ	ŏ
					150	Ö	0	150	0	0				150	0	0
Track up Ten-mile Creek					100	0	0	100	0	0				100	0	0
Repairs, Cobden to Barrytown Roa	ıd.				900	0	0	900	0	0	184	0	0	1,084		0
Road, Cobden to Warren's Accom	1-				500	0	0	500	0	0				500	0	0
modation-house	1				150	. 0	0	150	0	0				150	o	0
Cape Terrace Road, continuation					75	Ö	ŏ	75	ō	Ö	25	0	0	100	ŏ	ő
Mosquito to Maori Creek Track  Lake Brunner Road towards Maor					150	ŏ	ŏ	150	ŏ	ŏ			Ū	150	ō	ō
Creek											1					
10 11 TT 11 TO 3					199	9	4	199	9	4				199	9	4
Lyell to Victoria Range		100		0	200	0	0	300	0	0	150	0	0	450	0	0
	••	500	0	0	325	0	0	825	0	0	175	10	0	1,000	0	0
Anatoki, Frack	••				84	4	0	84	4	0	65 150	10	Ö	150 150	Ö	ő
~ ~ 1 D 11					170	0	0	170	0	0	100		Ü	170	ŏ	ŏ
~ 11 D ~	::	500	0	0	290	ŏ	ŏ	790		ŏ	10	0	0	800	Õ	Õ
Bainham to Upper Aorere Valley		,									200	0	0	200	0	0
Takaka to Collingwood Inland Roa					29	2	Ó	29	2	0	470		0	500	0	0
Vant's to Bubu					•••	•			•		100	0	0	100	0	0
Kaituna River protection works						•			•		150 200	0	0	150 200	0	0
						,			•		100	Ö	0	100	Õ	ŏ
Takaka Bridge protection works .	••				250	0	0	250	. 0	0	100		·	250	Ō,	ŏ
Repairs, Motueka Bridge Lloyd's Valley Road Bridges							Ĭ			•	100	0	0	100	0	0
Thorpe to Churchill											100	0	0	100	0	0
NT T C + NT +						,					100	0	0	100	0	Ő
					···			· · ·			100	0	0	100	0	0
Riwaka to Kaiteriteri Beach Road		440	Δ		100	_	0	549	. 0	3	100	0	0	100 549	0	3
	••	449 100	0	3 0	100 150	0	0	549 250	0	0	200	0	0	450	Ö	0
7 T		100	J	J	100	0	Ö	100		ŏ	200		•	100		ŏ
Promised Land, Ohinarahu Creek							-			•	300	0	0	300	Ō,	0
NT 0 1 11 NF 0 1											150	0	0	150	0	0
Land of Promise Road											150	0	0	150	0	0
Seddonville to Cardiff	,					,			•		100	0	0	100	0	0
Mokihinui end of Westport Road.									•		250 125	0	0	250 125	0	0
Foot-bridge, Buller River, belo	W					•		•••	•		120	J	J	120	J	J
Lyell Painkiller to Murray Creek		474	0	0	189	10	6	663	10	6	214	13	6	878	4	õ
707'1 ' D1L2- D Daniel		4/4	٥.	Ĭ	100					,	350	ō	ŏ	350	õ	0
Din Dinni to Ot Conner											250	0	0	250	0	0
36 1 37 11 - 73 - 1 T								•••			350	0	0	350	0	0
Ahaura Bridge		1,400		0	900		0	2,300		0	150	0	0	2,450	0	0
		880	0	0	150	0	0	1,030	0	0	900	٠,	0	1,030	0	0
Deviation road, Westbrook to Tere	e-					•		••	•		300	0	0	300	0	U
makau Foot-bridge, Blackball Creek											120	0	0	120	0	0
Bridge, Cobden to Brunner Road.					1						150	Õ	Õ	150	Õ	0
Bridge, Gilmer's Creek					]						100	0	0	100		
Deviation, Moonlight Track									•		100	0		100		
Foot-bridge, Blackball Creek (Brun	n-							. ·	•		150	0	0	150	0	0
ner to Moonlight Road)					1.						900	0	0	200	0	0
Extension, Barrytown to Paparo	)B	,							•		200	U	U	200	U	U
Track Track to Lake Hochstetter											80	0	0	80	0	0
Larry's Creek Bridge, extension					101		1	101	11	1	248			350	_	0
		<u> </u>					4			<del> </del>	<del></del> -		_	0000000		_
Carried forward		236,656	7	6	33,396	18	8	270,053	6	2	31,616	8	0	301,669	14	2

TABLE No. 4—continued. STATEMENT showing the Net Expenditure on Roads, &c.—continued.

STATEMENT show	wing th	e N	ET	EXPENDIT	rur	E on Roa	DS,	&c.—continue	?d.
	Net Exp t 31st Mar	0		Net Expendit during 12 Months en 31st March, 1	ded	Total Ne Expenditure 31st March,	e to	Liabilities on Authorities, Contracts, &c., 31st March, 1899.	Total Net Expenditure and Liabilities
	£	8.	d.	£ s.	d.	£ s.	đ.	£ s. d.	£ s d.
Brought forward	236,656		6	33,396 18	8	270,053 6	2	31,616 8 0	301,669 14 2
ROADS ON GOLDFIELDS—continued.									
MARLBOROUGH :-		_	^			11 0	^		11 0 0
Wakamarina Valley	11		0			11 0	0		11 0 0
Anikiwa Jetty	135	_	9			135 15	9	•••	135 15 9 1,311 9 0
Havelock to Mahakipawa	1,311		0	•••		1,311 9 800 0		250 0 0	1,050 0 0
Onamalutu to Wakamarina Forks	800 200		0	149 4	7	349 4		100 0 0	449 4 7
Bartlett's Creek Track	94	_	ŏ	5 11	ó	100 0	ó		100 0 0
Gravelling road through Mr. Adams's	73		U	0 11	υ,	,,,,	•		100 0
property Gravelling Onamalutu Road	98	17	0	1 3	0	100 O	0	,,,,	100 0 0
Tracks, Wakamarina and Mahaki-		16	6	2 <b>3</b> 0	0	46 16	6	53 3 6	100 0 0
pawa									1
Re-metalling Wakamarina Road	468	5	0	31 15	0	500 0	0		500 0 0
Havelock to Tuamarina Road	294	3	9	42 8	6	336 12	3	108 7 9	445 0 0
Rocky Ferry to Kaituna	7.00	٠,		200 14		405 0	e	600 0 0 204 19 6	600 0 0
Picton to Grove	165	6	3	329 14	3	495 0	6	200 0 0	200 0 0
Bartlett's Creek to Cat Point	•••	•						200 0 0	200 0 0
Road to Mount Patriarch  CANTERBURY:—	••	•		• • • • • • • • • • • • • • • • • • • •					
Road to open up Wilberforce quartz-	1,830	17	7		:	1,830 17	7		1,830 17 7
reefs	,	•							
WESTLAND:-									
Cedar Creek Road	4,500		0			4,500 0		•••	4,500 0 0
Browning's Pass to Reefs (subsidy	2,207	10	8	,		2,207 10	8	•••	2,207 10 8
of £2 for £1)	90	3.77	6			86 17	6		86 17 6
Track up Waiho River	126	17 0	0			126 0	ő	•••	126 0 0
Haast Ferry to Glue-pot Jackson's Bay to Cascade and Gorge	6,832		ő			6,832 6	ŏ		6,832 6 0
River Districts	0,002	·	•			0,550	- 1		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Grey Valley to Teremakau	900	0	0			900 0	0	***	900 0 0
Bridge over Mahinapua Creek	503	16	10	•••		503 16	10		503 16 10
Bridge over Ogilvie Creek	150	0	0			150 0		•••	150 0 0
Deviation Road and compensation,	1,431	4	2			1,431 4	2	•••	1,431 4 2
Larrikin's Flat			_	90 0	Δ.	000 0	_		200 0 0
Gillam's Gully Track	287	0		33 0	0		0	***	320 0 0 467 10 10
Bridge over Kanieri River at	467	10	10			467 10	10	. •••	307 10 10
Kokatahi	194	5	8	119 19	8	314 5	4	230 0 4	544 5 8
Taipo Creek to Seven-mile Totara Bridge	336		0	110 10	Ŭ,	336 0	ō	200 0 1	336 0 0
Track, Waikupakupa ocean-beach	84		ŏ	16 0	0	100 8	0	•••	100 8 0
to main road	]						İ		ĺ
Track, Totara River to Constitution	123	1	0	•••		123 1	0	<b>16</b> 0 0	139 1 0
Hill							_		110 0 0
Wire Bridge, Kapitea Creek, Lamp-	118	0	0	•••		118 0	0	•••	118 0 0
lough Track	129	1 /7	c			129 17	6		129 17 6
Butcher's Creek Bridge, Kanieri	129	1.7	6	• •••		123 17	U	***	120 11 0
Lake Road Extension, Tucker's Flat Road	103	2	6			103 2	6		103 2 6
Widening Milltown Track to Hum-	600	ō	-				0	500 0 0	1,100 0 0
phrey's Gully	1			·					
Renewal, Fisherman's Creek Bridge					_			100 0 0	100 0 0
Doughboy Road	:		_	<b>3</b> 00 0	0	300 0	_ '		300 0 0
Pack Track, Seddon's Terrace to	246	17	6	•••		246 17	6		246 17 6
Eel Creek	150	0	0			150 0	٥		150 0 0
Prospecting Track, Greek's Gully, Kanieri Forks	150	v	v			100 0			100 0
Prospecting Track, Totara River to	150	3	0	44 10	0	194 13	0		194 13 0
Farmer's Creek	100	•	•					_	
Widening and repairing Lamplough	95	15	0	50 0	0	145 15	0	***	145 15 C
Track									
Okarito Forks to Waiho				337 1	8	337 1		•••	337 1 8
Great South Road	11,496	6	0	1,418 10	6	12,914 16	6	200 0 0	12,914 16 6
Back Creek Road deviation						300 6	3	200 0 0	200 0 0 300 6 3
Extension, Seddon's Terrace Track	300		3 7	•••		30 8	7	•••	30 8 7
New Bridge, Kapitea Creek, Loop-	90	8	'	•••		000	•		
line Road Stribbing's Creek Bridge	70	8	11			70 8	11		70 8 11
Widening Road, Lake Mapourika	782		8			782 6		750 0 0	1,532 6 8
to Waiho									·
Repairing Jones Creek and Donog-	100	0	0	,	4	100 0	0	***	100 0 0
hue Storm-channels	1					1	_		
Pine-tree Road		10		***		45 10		•••	45 10 7
Wire Bridge, German Gully Track		0		901 0	10	89 0		100 0 0	89 0 6
New Road, Stafford to Awatuna		13			10	591 14		100 0 0	691 14 9 450 14 6
Karangarua Bridge		13		346 1 1 2	$\frac{6}{2}$	350 14 196 2		100 0 0 94 17 11	450 14 6 291 0 0
Okuru River Ford Track		2		1 2	-	451 2		55 4 1	506 6 6
Kokatahi Road Reefton to Hokitika and Ross	4,890			2,262 19	4	7,153 12		287 0 0	7,440 12 9
AUUTIUM DO (AAUAAAAAA MAAA AAUA		_ `							
Carried forward	280,760	13	8	39,110 0	8	319,870 14	4	35,766 1 1	355,636 15 5

TABLE NO. 4—continued.
STATEMENT showing NET EXPENDITURE on ROADS, &c.—continued.

OTHERINA D	OWING THE I	APENDITURE	on Roads, &	. Convention.	
	Net Expenditure to 31st March, 1898.	Net Expenditure during 12 Months ended 31st March, 1899.	Total Net Expenditure to 31st March, 1899.	Liabilities on Authorities, Contracts, &c., 31st March, 1899.	Total Net Expenditure and Liabilities.
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
Brought forward	280,760 13 8	39,110 0 8	319,870 14 4	35,766 1 1	355,636 15 5
ROADS ON GOLDFIELDS—continued. WESTLAND—continued.					
Okarito River Bridge	300 0 0		300 0 0		300 0 0
Continuation Wataroa Bluff Track	194 4 8		194 4 8	••	194 4 8
Drainage, Stafford Township	399 17 5 366 11 6	3 4 0	399 17 5 369 15 6	30 4 6	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Widening Cook's River-flat Road Hokitika to Jackson's	1,332 16 2	402 10 10	1,735 7 0	100 0 0	1,835 7 0
Resumption of J. Holmes's land,	300 0 0		300 0 0		300 0 0
Teremakau	110 10 0	101 7 0	940 0 9		240 0 3
Greenstone to Teremakau Track and Wire Bridge, Upper	118 12 6	121 7 9 200 0 0	240 0 3		240 0 3 200 0 0
Calary		200 0 0			
Teremakau to Paroa				250 0 0	250 0 0
Mahinapua and South Terrace		250 0 0	250 0 0		250 0 0
Track Adair's Track to Mahinapua Road		150 0 0	150 0 0		150 0 0
Veronica Creek Track		200 0 0	200 0 0		200 0 0
Repairing Bridge, Donnelly's Creek		160 1 3	160 1 3	100 0 0	260 1 3
Repairs, Browning's Pass Track		9 13 0	9 13 0	90 7 0 150 0 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Gillespie's Bluff Track Galway Bluff Track		•••		150 0 0	150 0 0
OTAGO:	· · · ·				 
Arthur's Point to Skipper's	12,167 4 1		12,167 4 1	•••	12,167 4 1
Waikaia Bush Road	1,000 0 0 9,720 6 8		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		1,000 0 0 9,720 6 8
Arrowtown to Macetown Quartz- reefs and Motutapu Bush	9,720 6 8	•••	3,120 0 0	•••	0,720 0 0
Waitahuna Bridge, on account of	750 0 0		750 0 0	,,,	750 0 0
reconstruction	]		<b>5040 511</b>		# 040 # 31
Wakatipu to Milford Sound	7,240 7 11		7,240 7 11 362 10 0	•••	7,240 7 11 362 10 0
Piers, Victoria Bridge Artesian - well boring, Maniototo	362 13 0 800 0 0		800 0: 0		800 0 0
Plains		•			
Miller's Flat to Skipper's Road	580 0 0		580 0 0	2144 2 2	580 0 0
Bridge and approaches, Skipper's	500 0 0 900 0 0	600 0 0	1,100 0 0	2,144 0 0 400 0 0	3,244 0 0 1,300 0 0
Arrowtown to Macetown Deviation, Pleasant Creek Track	130 0 0		130 0 0		130 0 0
Waipori to Berwick Gorge Road	1,476 18 9	500 0 0	1,976 18 9		1,976 18 9
Bridge over Clutha River at Miller's	5,398 7 3	1,222 12 9	6,621 0 0		6,621 0 0
Flat	850 0 0		850 0 0		850 0 0
Renewal bridge to Bannockburn Nevis Valley Road	850 0 0 400 0 0		400 0 0	200 0 0	600 0 0
Clyde to Queenstown	250 0 0	200 0 0	450 0 0	550 0 0	1,000 0 0
Punt, Hawea and Wanaka dis-			•••	<b>300 0 0</b>	300 0 0
tricts	50 0 0	150 0 0	200 0 0	100 0 0	300 0 0
Track up Shotover River Lawrence to Clyde	1,500 0 0	650 0 0	2,150 0 0	100 0 0	2,250 0 0
Lawrence to Waipori	377 0 9	372 19 3	750 0 0	375 0 0	1,125 0 0
Roxburgh to Clyde		350 0 0	350 0 0		350 0 0
Waitahuna to Bruce County bound-		150 0 0	150 0 0	150 0.0	300 0 0
Bridge at Waipori		•••		400 0 0	400 0 0
Garston to Nevis	1,965 17 2		1,965 17		1,965 17 2
Main Road, Beaumont to Miller's Flat		•••		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Clyde to Ophir Waipori Bush Road				200 0 0 300 0 0	300 0 0
Young Hill Creek Road				150 0 0	150 0 0
Skipper's to Bullendale				200 0 0	200 0 0
Nokomai Road				250 0 0	250 0 0
SOUTHLAND:— Tracks, Merrivale District	500 0 0		500 0 0		500 0 0
Orepuki to Preservation Inlet	9,353 4 6	778 1 2	10,131 5 8	74 3 10	10,205 9 6
Tracks, Stewart Island	718 7 8		718 7 8	150 0 0	868 7 8
Waipapa to Waikawa	200 0 0	•••	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Waipapa to Six-mile Orepuki (Block I.)-Longwood	100 0 0 250 0 0	250 0 0	500 0 0	•••	500 0 0
Riversdale to Waikaia	200 0 0		200 0 0	,	200 0 0
Roads, Preservation Inlet		239 15 8	239 15 8	260 0 0	499 15 8
Tracks, Cromarty		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	200 0 0 1,400 0 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Clifden Bridge, Waiau River Road to Dredging-claims, Waimumu		122 2 8	122 2 6	100 0 0	100 0 0
Repairs to read between Sections 17				100 0 0	100 0 0
and 45, Waikaka				950 0 0	ലെ വ
Colac to Round Hill				250 0 0 200 0 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Alpha Track Stewart Island, Road to Mines	1			150 0 0	150 0 0
Mason's Bay Track				150 0 0	150 0 0
Assistance towards prospecting*	2,630 16 2	150.	2,630 16 2		$2,630  ext{ } 16  ext{ } 2 \\ 877  ext{ } 15  ext{ } 7$
Contingencies	727 13 4	150 2 3	877 15 7		877 15 7
Totals	344,871 10 2	46,549 16 3	391,421 6 5	45,739 16 5	437,161 2 10
	, <b>-</b>		· ·	,	

			Expenditure.				LIABILITIES	ITIES.	,	Total	· .
LOCALITY AND NAME OF RACE.	Survey and Construction, 1870–98.	Grants, Subsidies, 1870–98.	Survey and Construction 1898–99.	Grants, Subsidies, 1898–99.	Totals.	Authorities on Construction.	Authorities on Grants, Subsidies.	Contracts.	Totals.	Expenditure and Liabilities.	LOCALITY AND NAME OF RACE.
NORTH ISLAND.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	es. d.	
AUGRIAND PROVINCIAL DISTRICT— Thames	80.708 19 3				-	,		,		80 708 19 3	AUCKLAND PROVINCIAL DISTRICT—
Tairua Water-race		:	:	: :	110	: :	::	::	::	3	
Compensation, Thames Water-race R. Kelly's water-race Mata	::	1,250 0 0 40 0 0	: :	: :	1,250 0 0 40 0 0	: :	• :	: ;	: :	1,250 0 0 40 0 0	Compensation, Thames Water-race.  R. Kelly's water-race Mate.
	•	200 0 0	•	: :	0.	: :	::	::	: :	0	
MIDDLE ISLAND.	80,708 19 3	1,524 5 4	:	:	82,233 4 7	•		:	•	82,233 4 7	MIDDLE ISLAND.
WESTLAND PROVINCIAL DISTRICT—Subsidies—											Westland Provincial District
Hohonu		12	:	:	-	:		:	:	19	
Hibernian	70 n	-	:	:		•	:	:	•		
Kanieri	1 2 0	610,310184	: :	: :	10,312 3 10	: :	: ;	: :	: :	3,517 5 5 10,312 8 10	New Klver. Kanieri.
Rimu Drainage-tunnel			:	•	19	•	::	:	: :	13	
Ross Sludge-channel Kumara Sludge-channel No 2	•	1,554 10 6 $2.769 17 9$	:	•	1,554 10 6	•	•	:	:	1,554 10 6	
Kumara No. 4 Main Tail-race	::	0	: :	::	8	::	110 0 0	: :	110 0 0	110 0	Kumara No. 4 Main Tail-race.
Kumara No. 5 Main Tail-race Trustees Main Tail-race Waimes	•	3,316 6 5	•	1,690 9 4	5,006 15 9	:	0 0 098	:		5,006 15 9	
Branch Tail race to No. 4 Chan-		0	: :	2	20	::	٠.	: :		90	
nel, Payne and party Kelly's Terrace Tunnel	460 13 7			414 17 6	875 11 1		791 18 11		11 18 11	1 667 10 0	
Wainihinihi Water race	874 13 0		1,206 9 2		2,081 2	468 18 4		::	18	2,550 0 6	
Quinn's Greek Water-race (pur-	:	0 0 0	•	:		•	•	:	:		Quinn's Creek Water-race (pur-
Raising dam, Loop-line	:	493 14 2	538 2 7	:	1,031 16 9	•	:	:	:	-	
Ngahere-Blackball	:		:	:		:		:	1	0 1	
Purchase of Byrne, O'Hallahan,	::	::	::	35 0 0	35 0 0	::	<u> </u>	::	6	828 7 85 0 0	Donnelly's Creek Tall-race. Purchase of Byrne, O'Hallahan.
and Murdoch's water-rights				,	,						and Murdoch's water rights.
:		:	633 3 1	:	1	1,250 7 11	•	:	1,250 7 11	6	Government works— Waimea-Kumara.
:	25,927 4 6	:	:	:	25,927 4 6		:	:		25,927 4 6	
NELSON PROVINCIAL DISTRICT— Government Works											NEESON PROVINCIAL DISTRICT—
Nelson Creek	10	:	:	:	90,722 10 8	:	:	:	•	90.722 10 8	
Napoleon Hill	16	:	:		257 16	:	:	:	•	16	
Argyle (Charleston) Black's Point	244 9 0	:	:	150 0 0	15,501 15 244 9	:	•	:	:	15,501 15 3	Argyle (Charleston).
Jones, Baxter, and party, water-	16	:	:	321 3 7	0 008	::	: :	::	: :	0	i ~
Sour Surreyor more cont		7,000									race mountaing mag.
Carried forward	323,161 19 10 28,138 12	28,138,12,8	2,377 14 10	2,745 7 0	0 356,423 14 4	1,719 6 3	1,990 6 4	:	3,709 12 7	7360,133 6 11	

Development of Goldfields.—Table No. 5—continued.

ei  -
Survey and Grants, Construction Subsidies, Totals. 1898–99.
d. £ s. d. £ s. d. £ s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s. d. 8 s
38 16 8 218
612 10
9,249
200
1,150 0
187 10 0 1,187
:
9 17 0 82
:
70,766
:
133 19
630
6,720
2,387 11 10 2,971 13 8 465,711
82,233
2,387 11 10 2,971 13 8465,711
9 2.387 11 10 2.971 13 8547.944

# Development of Goldfields.—Table No. 5a.

STATEMENT showing Assistance towards Prospecting, and Miscellaneous Services, out of Public Works Fund to 31st March, 1899, and the Liabilities on that Date.

	Total Expenditure 31st March,		Net Expenditure during 12 Months ended 31st March, 1899.	Total Net Expenditure to 31st March, 1899.	Liabilities on 31st March, 1899.	Total Net Expenditure and Liabilities.
Assistance towards prospecting* Purchase of diamond-drill Prospecting deep levels, Thames,—	7,995 1	s. d. 8 7 1 5	£ s. d. 2,143 14 1	£ s. d. 10,139 12 8 722 1 5	£ s. d. 1,103 13 1	£ s. d. 11,243 5 9 722 1 5
Queen of Beauty Claim Inspector's fee, deep-level shaft, Thames	23,864 354	6 1 3 4	1,135 13 11 145 16 8	25,000 0 0	••	25,000 0 0 500 <b>0</b> 0
Compensation Proclamation of Rivers Water Conservation—	5,196 1	3 10	676 0 8	5,872 14 6	••	5,872 14 6
Reports on Coromandel Harbour and Kuaotunu Sludge Channel	80 1	2 6	•	80 12 6	••	80 12 6
Engineer's salary and expenses Eweburn Reservoir Telephone line, Bannockburn to Nevis	245 1 180 1 50		414 15 9 7,229 10 7	660 11 4 7,410 6 3 50 0 0	••	660 11 4 7,410 6 3 50 0 0
Reports on Ross Flat			249 13 0	249 13 0	••	249 13 0
Totals	38,690	7 0	11,995 4 8	50,685 11 8	1,103 13 1	51,789 4 9

^{*} For expenditure prior to 31st March, 1894, see Roads on Goldfields, Table No. 4 (£2,630 16s. 2d.).

# TABLE No. 6.

STATEMENT showing the Expenditure on Telegraphs out of Public Works Fund to 31st March, 1899.

· :	:	Lia	ne.		,		during 1 Months 31st M	enc	ded
i i							£	s.	đ.
Telephone excha	-							_	
Ashburton .		•	• •	• • •	••	••	13	3	0
Auckland .		•	• • •	• •		•	1,071	9	0
Blenheim .		•	• •	• •	• •	• •	0	3	6
Christchurch.		•	• •	• •	• •			19	5
Dunedin .			• •	••	• •	••	65	0	0
Gisborne .				• • •	• •		29	12	7
Greymouth .							6	15	0
Hastings .		•					25	9	8
Invercargill .						••	28	12	4
Masterton .							9	11	6
Napier .							15	14	6
Nelson .							1	13	Ō
New Plymout		•		• •			12		10
Oamaru .		•	••	• •	• • •			19	ŏ
Palmerston No	outh .	•	••	• •	• •	• •	15		6
Thames	OLUII .	•	• •	• •	••	••	4	2	ő
Timaru	•	•	• •	• •	••	• • •	4	1	ő
	• •	•	• •	• •	• •	• •	34	8	9
Wanganui .	• •	•	• •	••	• •	• •		11	8
Wellington		•	• •	• •	• •	• •	402	11	8
New copper wire							000		_
Wanganui-Ne		uth	• •	• •	• •	• •		10	8
Kaikoura-Wai			• •	• •	• • .	• •		15	4
Waitaki-Dune			• •	• •	• •	• •	1	5	2
Auckland-Moka			• •	• •	• •	• •	4,458	7	3
Auckland-Whan			••	• •	• •	• •	16	1	6
Whangapoua-O		• :			• • *		53	0	0
Waihopo Loop-l	ine .						7	19	0
Paeroa-Paeroa l	Railway.						7	19	5
Kaeo-Saies .							4	0	4
Aoroa .							6	1	9
Upper Onehungs	a Bureau	ĺ					0	6	6
Kerikeri .							9	6	ŏ
Great North Ro	ad					•	ő	ĭ	6
Waipapa .			• •	••			2		ŏ
Toko-Strathmor			••	••	••	•••	379	1	ĭ
Inglewood-Tara			••	••	••	. • •			6
Bell Block-Lepi		•	••	••	• •	, · ·	20		
Dannevirke-We	i	•	• •	• •	• •		471	4	
Ormond-Te Kar		•	••	• •	• •	• •	219	-	
		• .	••	••	• •				8 8
Te Karaka-Wha	. atutu	• •	• •		•••		101	II	8
4.1	٠	forwa					8,220		10

TABLE No. 6-continued.

STATEMENT showing Expenditure on Telegraphs out of Public Works Fund—continued.

	Line.		-			Experduring Month: 31st M	Two s en	elve ded
					14			
:		1.						
	.) (					£	8.	d.
Maamhanga	tht forward	ι		• •	•			10 3
Moawhango	••	•		• •	•			6
Feilding Racecourse	• • •			••		$\cdot \mid  \frac{1}{2}$		
Murutai	••			• •	•	.   3		0
Dreyerton	• • •			• •				7
Cunningham's				• •				0
Collingwood-Bainham	•			• •	•		_	9
Belgrove-Tophouse					•	. 66	_	6
Renwicktown-Kaituna				• •	•		12	9
Reefton-Crushington					•	. 80		9
Westport-Cardiff		. ,.			•			0
Ngahere-Blackball							_	2
Orari-Geraldine								5
Ashburton–Mayfield						.   125	9	11
Rangiora-Fernside						6	14	0
Rangiora-Ashley Bank						.   12	5	9
Linton Downs						. 0	4	0
Kajapoj-Woodend						.   12	3	6
Waikari-Hawarden						112	7	7
German Bay						0	2	6
Ngapara-Tokarahi						2	8	8
Wairio-Wrey's Bush		•				100	6	3
Windsor				••		0		9
Balclutha-Warepa			,	• •	-	114	6	6
Drummond-Heddon B	ach .			• •	• • •	1	15	2
Colac Bay-Round Hill	,			••	• •	63		ĩ
Merrivale-Clifden		• • • • • • • • • • • • • • • • • • • •		••	• •	220	4	5
Invercargill-Otautau	••	• • • • • • • • • • • • • • • • • • • •		• •		78	7	1
		• •••		•••	• • •	9	2	0
Eweburn-Ranfurly	Whitele De	• • •		• •	• • •	925	_	2
Cable No. 3, Oterangi-V		у		• •	• •			2
Purchase of material, &	· ·	•		• •	•	17,823	6	Z.
						28,550	14	0
Expenditure to	31st Marc	ch, 1898				800,735	4	9
Total expendit	ure to 31st	March, 1	899			829,285	18	9

TABLE No. 7.

STATEMENT showing the Expenditure on Public Buildings out of Public Works Fund to 31st March, 1899, and the Liabilities on that Date.

	Total Expenditure to 31st March, 1898.	Expenditure for Year ended 31st March, 1899.	Total Expenditure to 31st March, 1899.	Liabilities on Authorities, Contracts, &c., 31st March, 1899.	Total Expenditure and Liabilities.
Judicial Postal and Telegraphic Customs Offices for Public Departments Lunatic Asylums School-buildings Hospitals Quarantine Stations Survey Parliament Buildings Government House, Auckland Wellington Agricultural Miscellaneous	£ s. d. 349,706 17 4 177,719 7 5 6,920 0 4 212,402 4 1 404,599 2 11 923,020 4 0 48,444 0 6 3,833 19 3 543 4 5 21,469 5 1 306 15 10 2,517 12 1 4,271 3 8 9,838 14 10	£ s. d. 11,109 2 0 5,168 3 1 4,548 14 11 17,666 13 6 43,402 14 11 20,635 16 8 2,286 12 9 1,928 18 7 519 18 5	\$ s. d. 360,815 19 4 182,887 10 6 6,920 0 4 216,950 19 0 422,265 16 5 966,422 18 11 48,444 0 6 3,833 19 3 543 4 5 42,105 1 4 2,593 8 7 4,446 10 8 4,791 2 1 9,838 14 10	£ s. d. 10,878 0 0 1,848 0 0 675 0 0 5,067 0 0 298 0 0 8,119 0 0 1,108 0 0	£ s. d. 371,693 19 4 184,735 10 6 6,920 0 4 217,625 19 0 427,332 16 5 966,720 18 11 48,444 0 6 3,833 19 3 543 4 5 50,224 1 4 3,701 8 7 4,446 10 8 4,828 2 1 9,838 14 10
Totals	2,165,592 11 9	107,266 14 5	2,272,859 6 2	28,030 0 0	2,300,889 6 2

TABLE No. 8.

STATEMENT showing the Expenditure on Lighthouses, Harbour Works, and Harbour Defences, out of Public Works Fund, to 31st March, 1899, and the Liabilities on that Date.

LIGHTHOUSES						
Akaroa		Expenditure to 31st March,	Expenditure during 12 Months ended 31st March,	Expenditure to 31st March,	Authorities, Contracts, &c., to 31st March,	Total Expenditure and Liabilities.
Miscellaneous, including expenditure on s.s. "Hinemoa" and "Stella"   20,590 5 9   20,590 5 9   20   20   20   20   20   20   20	Akaroa Brothers Cape Egmont Cape Foulwind Cape Kidnappers Cape Maria van Diemen Cape Palliser Cape Saunders Centre Island Cuvier Island Cuvier Island French Pass Beacon French Pass Hokitika Jackson's Reef Beacon Kaipara Manukau Heads Marine Store Moeraki Mokohinau Portland Island Puysegur Point Stephens Island Timaru Tiritiri Cable Tory Channel Waipapapa Point	7,148 16 5 6,241 0 0 3,354 6 4 6,955 9 1 2,109 11 7 7,028 14 8 6,243 16 1 6,066 6 3 5,785 19 0 7,405 9 11 668 15 8 1,427 17 5 801 9 7 3,180 0 5 5,571 8 0 600 13 11 499 11 3 2,943 1 11 8,185 11 0 6,554 14 5 9,452 12 11 1,116 17 3 1,085 19 6 353 7	£ s. d.	7,148 16 5 6,241 0 0 3,354 6 4 6,955 9 1 2,109 11 7 7,028 14 8 6,493 2 6 6,066 6 3 5,785 19 0 7,405 9 11 668 15 8 1,427 17 5 801 9 7 8,180 0 5 5,571 8 0 600 13 11 499 11 3 2,943 1 11 8,185 11 0 6,554 14 5 9,958 19 5 9,452 12 11 1,116 17 3 1,085 19 6 353 7 7 5,969 18 11	8 0 0	£ s. d. 7,148 16 5 6,241 0 0 3,354 6 4 6,955 9 1 2,109 11 7 7,028 14 8 6,501 2 6 6,066 6 3 5,785 19 0 7,405 9 11 668 15 8 1,427 17 5 801 9 7 3,180 0 5 5,571 8 0 600 13 11 499 11 3 2,943 1 11 8,185 11 0 6,554 14 5 9,958 19 5 9,467 12 11 1,116 17 3 1,085 19 6 353 7 7 5,969 18 11
Total Lighthouses	Miscellaneous, including expenditure		3,477 6 7	·		3,616 6 7
Harbour Works	·		3,726 13 0			$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Stewart Island Wharf, Horseshoe Bay       230 0 0        230 0 0        230 0 0	HARBOUR WOBKS.  Wharf at Howick Pollock Wharf, Manukau Whangarei Heads Wharf Matakana Wharf Matakana Wharf Matuku Channel Coromandel Wharf Waitara Harbour Removing eel-weirs, Patea River Napier Harbour Castlepoint Jetty Kaikoura Jetty and Harbour Picton, removal of old wharf Nelson, dredging harbour Collingwood Harbour Karamea Wharf Westport Harbour Hokitika Harbour Lyttelton, reclamation works, Sticking Point Timaru Harbour Martin's Bay, removal of rock Port Levy Jetty Balclutha Jetty Catlin's River, removal of rocks Catlin's River, removal of cocks Catlin's River Jetty Queenstown Jetty Jackson's Bay Jetty Raising dredge "Hapuka"	1,087 18 2 150 0 0 600 0 0 556 10 3 357 11 6 Cr. 0 10 0 2,000 0 0 50 0 0 328 0 0 51 14 1 2,912 16 10 94 0 0 2,806 15 8 745 18 8 745 18 8 75 0 0 14,110 18 7 127,233 19 6 56,905 10 2 1,414 18 4 100,000 0 0 250 0 0 1,000 0 0 257 19 0 1,015 7 7 35 0 0 297 8 0 32 6 4 777 7 9	1,690 9 11 86 17 11	1,087 18 2 150 0 0 600 0 0 556 10 3 357 11 6 Cr. 0 10 0 2,000 0 0 51 14 1 2,912 16 10 94 0 0 2,806 15 8 745 18 8 75 0 0 14,110 18 7 127,233 19 6 58,596 0 1 1,501 16 3 100,000 0 0 250 0 0 1,000 0 0 250 0 0 1,000 0 0 277 19 0 1,015 7 7 35 0 0 297 8 0 32 6 4 777 7 9	23 0 0	1,087 18 2 150 0 0 600 0 0 556 10 3 357 11 6 Cr. 0 10 0 2,000 0 0 50 0 0 328 0 0 51 14 1 2,912 16 10 94 0 0 2,806 15 8 745 18 8 75 0 0 14,110 18 7 127,233 19 6 58,619 0 1 1,628 16 3 100,000 0 0 250 0 0 1,000 0 0 250 0 0 1,000 0 0 257 19 0 277 19 0 1,015 7 7 35 0 0 297 8 0 32 6 4 777 7 9
Harbour Defences.  Guns	Stewart Island Wharf, Horseshoe Bay	230 0 0		230 0 0		400 0 0 230 0 0 317,978 18 3
Torpedo-boats and torpedoes 20,203 13 7 20,203 13 7 20 20 203 13 7 20 20 203 13 7 20 20 203 13 7 20 20 203 20 20 203 20 20 203 20 20 203 20 203 20 203 20 203 20 203 20 203 20 203 20 203 20 203 20 203 20 203 20 203 20 203 20 203 20 203 20 203 20 203 20 203 20 203 20 203 20 203 20 203 20 203 20 203 20 203 203	HARBOUR DEFENCES.  Guns	147,768 18 10 24,531 6 7 9,933 10 9 20,203 13 7 17,665 2 18,009 5 10 206,342 5 1 36,601 15 5 481,055 18 3	8,432 10 2 1,725 19 1	147,768 18 10 24,581 6 7 9,933 10 9 20,203 13 7 17,665 2 2 18,009 5 10 214,774 15 3 38,327 14 6	3,514 0 0 3,514 0 0	147,768 18 10 24,531 6 7 9,933 10 9 20,203 13 7 17,665 2 2 18,009 5 10 218,288 15 3 38,327 14 6 494,728 7 6

# APPENDICES TO THE PUBLIC WORKS STATEMENT, 1899.

### APPENDIX A.

STATEMENT OF EXPENDITURE ON PUBLIC WORKS AUDITED PUBLIC WORKS FUND FOR THEout $\mathbf{OF}$ THE 1898-99.

Prepared in compliance with Section 8 of "The Public Works Act, 1894."

Sir,— Public Works Department, Wellington, 31st May, 1899.

In compliance with the 8th section of "The Public Works Act, 1894," I enclose a statement of the expenditure during the preceding financial year on all works and services chargeable to the I have, &c.,
WM. HALL-JONES,
Minister for Public Works. Public Works Fund.

The Controller and Auditor-General, Wellington.

STATEMENT of NET Expenditure on all Works and Services chargeable to the Public Works Fund for the Year 1898-99.

Class.	Votes.	Summary.	Appro- priation.	Expend	iture.		Cred	its.		Ne Expend		ъ.		
		Public Works Fu	JND.		£	£	s. (	1.	£	s.	d.	£	s.	d.
I.	74	Immigration			150	508	11	4	403				16	10
П.	75	Public Works, Departmental			9,500	10,466	14	3	376	13	0	10,090	1	3
III.	76-90	Railways			459,100	423,631	3 1	1 4	19,490	1	8	374,141	2	3
IV.	91-92	Roads			404,086	298,746	9	7	3,263	2	5	295,483	7	2
V.	93	Development of Goldfields			45,000	17,354	10	2	٠.			17,354	10	2
VI.	94	Purchase of Native Lands			51,600	53,336	0	6	153	3	8	53,182	16	10
VII.	95	Telegraph Extension			33,250	35,841	9	3	7,290	15	3	28,550	14	0
VIII.	96-104	Public Buildings			132,380	107,395	14 1	0	129	0	5	107,266	14	5
IX.	105–107	Lighthouses, Harbour-works, Defences	and	Harbour	16,570	15,743	5	8	80	15	7	15,662	10	1
X.	108	Rates on Native Lands			900	347	11 1	0				347	11	10
XI.	109	Contingent Defence			35,000	13,866	15	3	0		4	13,866	12	11
		Unauthorised :	• •	• •		4,008	9	6	3,957	12	0	50	17	6
		Total Public Works Fu	nd	••	1,187,536	981,246	16	1 6	35,145	0	10	916,101	15	3

Public Works Department,

G. J. CLAPHAM, Accountant. H. J. H. Brow, Under-Secretary.

Examined and found correct.

J. K. WARBURTON, Controller and Auditor-General.

(Details on next page.)

ote No	Name	of Vote	<b>.</b>			Appropriation.	Expend	iture.	Credite	١.	Expend		re.
	Public V	Vorks I	Fund.			£	£	s. d.	£s	. d.	£	s.	d
	T					1					1		
74	Immigration— Immigration					150	508	11 4	403 1	1 6	104	16	10
											<u> </u>		
75	Public Works, Department Public Works, Department			• •	• ••	9,500	10,466	14 3	376 1	3 0	10,090	1	
	Railways—												
76	Whangarei-Kamo Extens	sion				7,000	3,932	26	0 8	3 9	3,931	13	
77	Helensville Northwards	• •				9,000							
78	Grahamstown-Te Aroha	• •	• •	• •	• •	25,000							
79 80	Marton-Te Awamutu Eketahuna-Woodville	••	• •	• •	• • •	50,000 1,500							
81	Blenheim-Awatere	• •	• •	• • •	• •	8,000				ó			
82	Midland Railway		•	••		50,000				3 11			
83	Otago Central				••;	40,000		13 9	82 (	8	17,609	7	
84	Heriot Extension	• • *	• •		• •	2,000			• •		- 01:	٠.,	
85	Seaward Bush	•• ,	• •	••	• •	10,000			gg/ 1.	1 7	7,215 3,110		
86 87	Forest Hill Land-claims, &c	• •	• • •	••	••	5,000 2,500			664 14 59 10				
88	Surveys, New Lines of R	ailwa <b>v</b>	• • •		••	3,600			2,126				
89	Permanent-way and othe					45,500		5 4					
90	Additions to Open Lines			••	••	200,000	197,525	19 6	17,594	3 6	179,931	17	
						459,100	423,631	3 11	49,490	l. 8	374,141	2	
91	Roads— Settlement Roads, Bridge	es, and	other \	Works		341,461	252,176	13 4	3,243	2 5	248,933	10	1
92	Roads on Goldfields	••		• •	. ••	62,625	46,569	16 3	20 (	) 0	46,549	16	
						404,086	298,746	9 7	3,263	5	295,483	• 7	
93	Development of Goldfields- Development of Goldfield					45,000	17,354	10 2		<del></del>	17,354	10	
94	Purchase of Native Lands— Purchase of Native Land					51,600	53,336	0 6	153	3 8	53,182	16	1
95	Telegraph Extension— Telegraph Extension		:			33,250	35,841	9 3	7,290 1		28,550	14	
	Totograph Zinvozinoz	••	• • •	•••	• • •								
	Public Buildings—												
96	General	• •	• •	• •	• •		29,508	7 1	108	l 7			
97	Judicial Postal and Telegraph	• •	• •	• •	• •	18,230 9,925			20 5	2 6	11,109 5,168		
98 99	Customs	• •	• •	• •	• •	150		"	20	. 0	5,105		
00	Lunatic Asylums	•••	• • •	•			17,667	6 10	0 18	3 4	17,666	13	
01	School-buildings					25,400	21,706	9 1			21,706	9	
02	School buildings (special)	٠.		• •			21,696				21,696		
03	Agricultural	• •	• •	• •	• •	1,855		18 5	• •		519		
04	Hospitals, &c.	••	• •	• •	••	1,000							_
						132,380	107,395	14 10	129 (	) 5	107,266	14	_
	fences—	Works,	and	Harbour	De-				· ·				
05	Lighthouses	• •	• •	· • •	• •	4,220			1.10		3,726		
06 07	Harbour Works Harbour Defences	• •	• •		• •	2,350 $10,000$					,		
<b>V</b> 1	IIIIIIIII	••	•	••	••		15,743		80 18		<del></del>		_
	Rates on Native Lands-					<u>-</u>							
08	Rates on Native Lands			••	••	900	347	11 10			347	11	1
09	Contingent Defence— Contingent Defence	••				35,000	13,866	15 3	0	2 4	13,866	12	1
	Unauthorised-												_
			••	••	· •••	••	4,008	96	3,957 1	3 0	50	17	
	Total Public Works F	und				1,187,536	981,246	16 1	65,145	10	916,101	15	

# APPENDIX B.

STATEMENT of all LIABILITIES in respect of the Services of the Public Works Department outstanding at the Close of the Financial Period ended 31st March, 1899, prepared in terms of Section 38, Part IV., of "The Public Revenues Act, 1891," and forwarded, as therein provided, to the Audit Office.

	Railways  Railways  Railways  Railways  Whangarei-Kamo Ey Helensville Northway Grahamstown-Te Ar Marton-Te Awamutu	rtension	Orks, an Na		te.	••	••			£ 71,055 28,030 3,826 102,911 Total.
76 77 78	Public Buildings 105-107 Lighthouses, Ha  Railways— Whangarei-Kamo Ey Helensville Northway Grahamstown-Te Ar	rtension	Na Public	d Harbo	te.	ces	•			71,055 28,030 3,826 102,911
76 77 78	Public Buildings 105-107 Lighthouses, Ha  Railways— Whangarei-Kamo Ey Helensville Northway Grahamstown-Te Ar	rtension	Na Public	d Harbo	te.	ces	••			28,030 3,826 102,911
76 77 78	Railways— Whangarei-Kamo Er Helensville Northwai Grahamstown-Te Ar	rtension	Na Public	d Harbo	te.	ces	••		Į.	3,826
76 77 78	Railways— Whangarei-Kamo Er Helensville Northwar Grahamstown-Te Ar	rtension	Na Public	me of Vo	te.	ces	••			3,826
76 77 78	Railways— Whangarei-Kamo Er Helensville Northwai Grahamstown-Te Ar	rds	Ривыс	<del></del> -						
76 77 78	Railways— Whangarei-Kamo Er Helensville Northwai Grahamstown-Te Ar	rds	Ривыс	<del></del> -						Total.
76 77 78	Railways— Whangarei-Kamo Er Helensville Northwai Grahamstown-Te Ar	rds	Ривыс	<del></del> -			···		1	Total.
<b>7</b> 7 <b>7</b> 8	Whangarei-Kamo Ex Helensville Northwar Grahamstown-Te Arc	rds		Works	Fund.				l	
<b>7</b> 7 <b>7</b> 8	Whangarei-Kamo Ex Helensville Northwar Grahamstown-Te Arc	rds								_
<b>77</b> <b>7</b> 8	Helensville Northwar Grahamstown-Te Arc	rds						* +		£
<b>7</b> 8	Grahamstown-Te Arc			••	• •	••	, • •	••	•••	458
		nha.	••	• •	••	• •	••	••	•• }	799
EO.	Marton-Te Awamutu			• • •		• •	• • •	• •	••	3,941
7.9	11	i (north e	end)	• •	• •	• •	••	• •	••	727
	777 2 177	(south		••	••	• •	• •	••	•••	5,967
80	Eketahuna-Woodvill		• •	••	• •	• •	• •	••	••	137
81			••	. • •	. 1		• •	• •	••∤	800
	( Midland Railway, Ot			. ••	• •	• •		• •	•••	16,868
82		lgrove S		• •	• •	••	• •	• •	••	378
00	y a g sp	ringfield		• •	• •	• •	• •	. ••	•• [	3,369
83	Otago Central	• •	• •		• •	• •	• •	• •	••	12,733
84	Heriot Extension	••	• •	••				* • • •	••	4.500
85	Seaward Bush			• •	• •	• • •	• •	٠.	• • •	4,786
86	Forest Hill	013 T			• •	• •	• •	•• :	•••	1,789
87 88	Land-claims and oth				• •	• •	• •	• •	••	416 591
89	Surveys of New Line	s or man			••	••	• •	• •	••	
89	Permanent-way Mate	eriais	• •	••	••	• •	• •	• •	• • •	17,296
									_	71,055
									۔ ا	11,000
	Public Buildings-									
96	General									9,902
97	Judicial									10,878
98	Postal and Telegraph	١		•••						1,848
99	Customs		••		••		• •			
100	Lunatic Asylums									5,067
101	School-buildings (par	t of vote	only)							298
103	Agricultural									37
104	Hospitals and other	Charitab	le Instit	utions	••	••	••	••	_	
										28,030
	Lighthouses, Harbour	Works. a	nd Harl	our Defe	ences-					
105	Lighthouses	••	• •	• • •						162
106	Harbour Works	•••			••		• •			150
107	Harbour Defences	• •		• •	••		•			3,514
	· · · · · · · · · · · · · · · · · · ·					-			1_	
									Ì	3,826
	1								ļ <u></u>	
		Total.	Public '	Works F	und					102,911

G. J. CLAPHAM, Accountant.

H. J. H. Blow, Under-Secretary.

Public Works Department, 30th April, 1899.

APPENDIX C.

SCHEDULE of CONTRACTS CURRENT on the 1st April, 1898, and CONTRACTS ENTERED INTO by the Public Works Department during the Year ended 31st March, 1899.

Remarks.	
Amount of Contract.	£ s. d. 352 9 9 260 18 2 213 12 10 363 15 3 786 0 0 825 8 10 1,084 4 9 1,045 14 1 1,443 0 7,746 0 105 10 0 105 10 8 508 17 9 175 15 0 660 5 10
Date Contract was completed.	May 15, 1898  May 15, 1898 May 31, Dec. 13, Nov. 19, July 16, 1898 June 30, Jan. 6, 1899 Jen. 6, 1899 Jen. 6, 1899 Jen. 7.
Contract to be completed.	26, 1896 22, " 26, 1896 ch 24, 1898 30, " 30, " 4, 1896 ch 24, 1896 21, 1899 1, 1899 1, 1899 1, 1899 1, 1899 er specifica- on 9, 1898
	Nov   May
Name of Contractor.	Murray, Arnold, and Go. James McLellan Cosgrove and Rapson Murray, Arnold, and Go. Murray, Arnold, and Go. Waitemata Sawmill Go. Waitemata Sawmill Go. Murray, Arnold, and Go. Murray, Arnold, and Go. Tispatch Foundry Go. Tispatch Foundry Go. Traser and Morley W. Flannery W. Flannery W. B. Sharp W. B. Sharp Thomson, Bridger, and Go. W. Flannery W. B. Sharp W. B. Sharp Thomson, Bridger, and Go. Thomson, Bridger, and Go. W. Flannery James Fowlers W. B. Sharp Thomson, Bridger, and Go.
Name of Contract.	Ironbark Timber  Ironbark Timber  Totara and Kauri Timber  Totara and Kauri Timber  Totara and Kauri Timber for Station- buildings  Rimu Framing for Station-buildings  Ironbark Timber  Ironbark Timber  Steel-plate Girders  Bridge over Taieri River  Timber and Joinery for Station-buildings  Ironbark Timber  Steel-plate Girders  Fronbark Timber  Timber and Joinery for Station-buildings  Ironbark Piles and Timber  Steel-plate Girders, Eweburn Bridge  Ironbark Timber and Joinery Waimahaka Station- buildings  Timber and Joinery, Waimahaka Station- buildings  Timber sets Points and Orossings
Lines of Railway and Branches.	Whangarei-Kamo  Helensville Northwards  Frahamstown-TeAroha
Date of Contract.	Aug. 26, 1896   1896   28, 1899   1896   27, 28, 1899   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   1896   18

APPENDIX C-continued.

SCHEDULE of Contracts current on the 1st April, 1898, and Contracts entered into by the Public Works Department during the Year ended 31st March, 1899.

	Remarks.			•		
	Amount of Contract.	£ 8. d. 638 0 0 535 5 0 288 0 0 0 387 14 9 797 6 0 458 18 8 458 18 6 645 0 0 609 0 0 609 0 0 0 339 0 0	421 0 0 416 14 10 367 0 0 636 12 8	262 7 10 635 9 9 188 0 0 126 0 0 124 10 0 764 17 1 195 7 6 1,315 0 0	850 8 6 155 15 0 12,989 0 0 1,030 15 11 2,235 0 0 383 0 0	1,056 0 0 172 0 0 206 0 0
	Date Contract was completed.	Aug. 5, 1898 Aug. 8, " Aug. 24, " Mar. 21, 189 Feb. 28, " April 21, 1899 May 30, 1899 Mar. 15, "	Dec. 2, 1898 Feb. 28, 1899 Feb. 14, " Dec. 16, 1898	Dec. 15, 1897 April 21, 1898 April 26, " Fleb. 14, " May 11, 1898 May 24, " April 15, 1899	Nov. 18, 1898 Nov. 1, " .: .: Dec. 31, 1898	April 15, 1899 Jan. 21, " May 11, "
	Contract to be completed.	June 10, 1898 July 22, July 22, July 23, Jan. 20, 1899 Jan. 5, Feb. 23, Feb. 23, Feb. 23, May. 19, Fro. 20, May 23, June 25,	Dec. 2, 1898 Dec. 12, " Dec. 12, " July 15, 1898	May 26, 1897 April 13, 1898 March 14, Feb. 15, June 18, 1898 May 22, April 26, 1898 May 22, April 26, 1898	Oct. 114, 1898 Nov. 11, 1898 April 28, " Oct. 21, 1898 May 15, 1899	Aug. 15, 1898 Dec. 23, " April 13, 1899
	Name of Contractor.	PUBLIC BUILDINGS.  W. Cook and Son, Waimate North Ju. Colin Fraser, Coromandel Ju. W. Cook and Son, Whirinaki Ju. T. E. Doyle, Kinikihi James James Muir, Otahuhu James Muir, Otahuhu James Muir, Otahuhu James Muir, Otahuhu James Muir, Otahuhu James Muir, Otahuhu James James Malcolm, Ankland Au. D. Henderson, Ngaruawahia James James Malcolm, Aukland Au. C. H. Olive and Son, Kohukohu James James Muir Olive and Son, Kohukohu James James Muir Olive and Son, Kohukohu James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James James Ja	Elliott and King Do Christie and Hoskin Do J. Ryan, Eltham Do A. R. Gardiner, Wairoa Ju	Stewart and Co., Wellington Raisings and Fraser, Mangaweka Josiah Dawson, Wellington Feb E. B. Troomath, Wellington Feb W. Gable and Co., Wellington Jun W. Cable and Co., Wellington Wellington Wellington As. P. Hutson and Co., Wellington As.	Stewart and Co., Wellington Or Prouse Brothers, Wellington My J. and A. Wilson, Wellington Alganary Trinber, Glass, and Hard-Alware Company, Wellington Adams and Elwood, Feilding Or	W. Miller and Sons, Nelson A. H. Machin, Nelson D. T. A. Louisson, Nelson Al
	Name of Contract.	AUCKLAND.  Native School  angahua to Utikura	Taranaki	Wellander, Additions to south wing, Departmental Buildings	Timber and Joinery, Porirua Asylum Supply of Flooring, New Library, Parliamentary Buildings New Additions Completion, Parliament Buildings Timber and Joinery, Porirua Asylum Courthouse, Palmerston North.	Nelson Asylum stry Office, Nelson suildings, Nelson
		Native School, Whirinaki	Taranaki. Alterations and additions, Waitara Post-office Police-station, Opunake  Manaia  Hawke's Bay	Timber, Additions to sout Native School, Karioi Electric-light installation Construction and erection Cast-iron Columns, New Shaffing, &c., Governmer Terra-cotta Blocks, New	Timber and Joinery, Porirua Asylum Supply of Flooring, New Library, Pa New Additions Completion, Parliame Timber and Joinery, Porirua Asylum Courthouse, Palmerston Noth	New Briok Dormitories, Nelson Asylum Strong-room, Lands Registry Office, Nelson Painting, Departmental Buildings, Nelson
-	Date of Contract.	Feb. 16, 1898 April 1, " April 13, " Sept. 21, " Sept. 9, " Nov. 28, " Dec. 23, " Dec. 29, " Jan. 25, 1899 March 25, "	Sept. 2, 1898 Sept. 22, " Sept. 22, " April 16, 1898	April 14, 1897 Oct. 18, " Feb. 3, 1898 Jan. 20, " Feb. 17, " April 7, 1898 April 16, " May 3, "	June 16, 1898 Oct. 4, " Oct. 9, " March 3, 1899 May 4, 1898 Feb. 24, 1899	Mar. 28, 1898 Nov. 12, " Feb. 17, 1899
	13—D.	1.				

APPENDIX C-continued.

SCHEDULE of Contracts current on the 1st April, 1898, and Contracts entered into by the Public Works Department during the Year ended 31st March, 1899—continued.

	Remarks.		·	. *							
	Amount of Contract.	£ s. d. 162 7 10	338 0 0 178 0 0	294 4 9 329 0 0 413 12 4	538 8 6 269 0 0		Schedulerates 966 14 7 25 9 0 Schedulerates	196 17 0 988 19 6 481 12 10	26 13 0 215 0 0	789 10 0 155 0 0 63 14 0 90 0 0 Schedule rates	
	Date Contract was completed.	Aug. 1, 1898	Oct. 10, 1898 May 27, 1899	July 14, 1898 Dec. 9, " Jan. 24, 1899	Mar. 4, " Mar. 30, "		May 31, 1898 Dec. 31, Mar. 31, 1899 Mar. 31, "	 Aug. 26, 1898 Feb. 21, 1899 Feb. 21, "	::	July 8, 1898 Dec. 31, " Dec. 31, " Dec. 31, " Mar. 31, 1899 Mar. 31, "	
	Contract to be completed.	Aug. 2, 1898	July 12, 1898 April 21, 1899	Nov. 12, 1897 Nov. 26, 1898 As per specifi-	Jan. 28, 1899 Mar. 15, "		Dec. 31, 1899 March 19, 1898 Dec. 31, " March 31, 1899 March 31, "	Sept. 30, " Sept. 30, " Aug. 19, 1898 Feb. 3, 1899 As per specifi-	Cation Dec. 31, 1899 May 16, "	Dec. 31, 1897 Dec. 31, 1898 Dec. 31, " Dec. 31, " Sept. 30, 1899 Sept. 30, " March 31, " March 31, " Sept. 30, "	
1899—continuea.	Name of Contractor.	G. A. Smith and Co., Picton	J. C. Green, Christchurch William Bennett, Leeston	Murdoch and Co., Dunedin McKechnie and Fleming Thomson, Bridger, and Co.,	Cromwell nd Bowden, Roxburgh	MISCELLANEOUS.	R. B. Martin, Ponsonby M. Cockroft, Auckland T. and S. Morrin, Auckland T. Southern Gross Galvanised-iron		ware Company, Wellington M. Cockroft, Auckland S. Luke and Co., Wellington	W. Cable and Co., Wellington C. Gawler and Co., Wellington T. Costello, Wellington Harry Smith, Wellington Westport Coal Co., Wellington Briscoe, McNeil, & Co., Wellington Briscoe, McNeil, & Co., Wellington Cameron and Christie, Wellington Cameron and Christie, Wellington Smith and Smith, Dunedin F. Hutson and Co., Wellington. J. J. Craig, Auckland	
31St March,	Name of Contract.	Marlborough.  Painting and Repairs, Picton Post- and Telegraph-office	Courthouse, Leeston Additions and Repairs, Southbridge Police-station	Orago.  Timber for House, Seacliff Asylum	Gaoler's House, Clyde		Coal and Firewood, Public Buildings, Auckland  Repairs to Panmure Bridge Chimney sweeping, Public Buildings, Auckland Stores Supply, Classes 1 (part), 2, 3, and 4, Auckland Part Class 1,	Classes 7 and 8,  Class 6,  Tanmure Wharf  Iron Tower, East Cape Lighthouse  Timber and Joinery, East Cape Lighthouse	Chimney-sweeping, Public Buildings, Auckland 6-ton Wharf-crane, Harbour Defences, "	Wellington.  Wellington Window-cleaning, Public Buildings, Window-cleaning, Public Buildings, Removal of Rubbish, Colimney-sweeping, Colimney-swee	
	Date of Contract.	July 4, 1898	May 6, 1898 C	Oct. 30, 1897   1 Aug. 24, 1898   C Sept. 28, "	Oct. 11, " C		Dec. 22, 1896 Oct. 21, 1897 Jan. 12, 1898 March 2, "	March 2, " March 9, " April 25, " Aug. 8, " Sept. 23, "	Dec. 29, " Mar. 7, 1899	Sept. 22, 1897 Jan. 21, 1898 Van. 17, % Jan. 18, % Comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the	

APPENDIX C-continued.

SCHEDULE of Contracts current on the 1st April, 1898, and Contracts entered into by the Public Works Department during the Year ended 31st March, 1899—continued.

1	1		-			
Remarks.				• .		
Amount of Contract.	£ s. d. 97 10 0 207 10 0 90 0 0 68 10 0 Sohedule rates 192 0 0 Sohedule rates	67 0 0 Schedule rates " 67 0 0 Sohedule rates	Sohedule rates " "	Schedule rates "	227 2 3 206 17 9 Schedule rates	Schedule rates "
Date Contract was completed.	Nov. 16, 1898 Feb. 23, 1899	Sept. 30, 1898 Dec. 31, 1898	Mar. 31, 1899	Dec. 31, 1898 Mar. 31, 1899	Mar. 31, 1899 May 20, 1899	::::
Contract to be completed.	16, 1898 2, 1899 31, 1899 31, " 31, "	tt. 30, 1898 5. 31, " ht. 30, 1899 ht. 30, " ht. 30, "	March 31, 1899 Sept. 30, " Sept. 30, " March 31, 1898 Sept. 30, 1899 Sept. 30, "	Dec. 31, 1898 Sept. 30, 1899 March 31, " Sept. 30, "	Sept. 30, " March 31, " May 15, 1899 Way 20, " Dec. 31, "	pt. 30, 1899 pt. 30, " pt. 30, "
	Nov. Jan. Dec. Dec. Dec. Dec.	Sept. Dec. Sept. Sept. Sept. Sept. Dec.	Marck Sept. Sept. Marck Sept. Sept.			Sept. Sept. Sept.
Name of Contractor.	EOUS—continued. S. Luke and Co., Wellington. S. Luke and Co., Wellington. T. Costello, Wellington. T. Costello, Wellington. M. Fitzgerald, Wellington. Gawler and Attewell, Wellington.	E. V. Worthington, Christohurch W. White and Co., Christohurch Ashby, Bergh, and Co., Christ'rch J. J. Craig, Auckland E. V. Worthington, Christohurch W. White and Co., Christohurch	Charles Mayo, Jackson's Charles Hansen, Greymouth James Holmes, Greymouth D. MoKay, Greymouth J. J. Craig, Auckland Duncan McLean, Greymouth	Westport Goal Company, Dunedin Thomson, Bridger, & Go., Dunedin N.Z. Hardware Go., Ld., Dunedin Milburn Lime and Gement Gom-	party, Juneau. J. J. Craig, Auckland A. Briscoe and Co., Dunedin Steel and Clarke, Palmerston S. John Drake, Ravensbourne Westport Goal Company, Dunedin	A. Briscoe and Co., Dunedin Milburn Lime and Cement Company, Dunedin J. J. Craig, Auckland
	E S. S. H. H. R.	Ask (五.7.3)		BEZZ 	∺ั∢ಙ∺ั⊱ 	AM L
	LLA					
	MISCELLANEOUS S. Luk S. Luk Harry T. Cost M. Fits M. Fits M. Fits Westpp	:::::	:::::	::::	 	:: :
	ckland	:::::	:::::::	·::::	ntral Railway	::::
	g Yn	ırch	:::::	::::	::: %	: : :
Name of Contract.	shelly Bay s, Wellington an ogs, Wellington	CANTERBURY. 5, 6, 8, 9, ", ", ', ', ', ', ', ', ', ', ', ', ', ', ',	Westland. Greymouth	OTAGO. Junedin "	", ley tine Island Jett dunedin and Ota	Southland. 5, 8, 9, Invercar!
Nan	e for Slipway, s. rbour Defences, Public Buildiish,	ublic Building, ic Buildings, sses 1, 2, 3, 4, £ ss 7, ublic Building	n's	ublic Buildings, I Classes 1, 2, 5, Classes 3, 4, Class 6,	Class 7, Classes 8, 9, ne-kiln, Inch Vall Repairing Quaran ublic Buildings, I	Classes 1, 2, 3, 4, Class 6, Class 7,
	Ironwork for Cradle for Slipway, Shelly Bay  2 Whip-cranes, Harbour Defences, Wellington and Aucklan Chimney-sweeping, Public Buildings, Wellington Removal of Rubbish, """  Cartage, """  Window-cleaning, """  Coal Supply,	Cantering Offices, Public Buildings, Coal Supply, Public Buildings, Stores Supply, Classes 1, 2, 3, 4, 5, 6, 8, Cleaning Offices, Public Buildings, Coal Supply,	Cartage, Jackson's Stores Supply, Class 9, Class 5, Class 5, Class 7, Class 7, Class 7,	Orag Coal Supply, Public Buildings, Dunedin Stores Supply, Classes 1, 2, 5, " Classes 3, 4, " "	Classes 8, 9, " "Classes B, 9, " " Classes B, 9, " " Erection of Lime-kiln, Inch Valley Benewing and Repairing Quarantine Island Jetty Coal Supply, Public Buildings, Dunedin and Otago Central	Stores Supply,
of set.	2, 1898 4, 1899 9, 1898 31, 1898 4, 1899	1, 1897 23, 1898 21, " 22, " 11, 1899	18, 1898 7, " 9, " 26, " 126, "	17, 1898 14, " 11, "	22, " 12, " 16, 1899 27, "	12, 1898 19, " 22, "
Date of Contract.	Nov. Nov. 2a Jan. Jan. Jan. 2a	Oct. Feb. 23 March 2 March 2 Oct. Feb. 1	Jan. 1 March March 2 March 2 March 2	Feb. 1 March 1 April March 1	March March March March Heb.	March 1

APPENDIX D.

SCHEDULE of Sleeper Contracts Current on 1st April, 1898, and Contracts entered into by the Public Works Department during the Year ended 31st March, 1899, showing Deliveries to the latter Date.

	- E & S	Aug., , 1,000 Nov., , 313	$egin{array}{llllllllllllllllllllllllllllllllllll$	17 Dec., 172 17 Dec., 23 Sept., 1,000 23 Sept., 1,000 1 Nov.,	109	167 14 472 1
	250	300 100	:::	 500	 200	250
	::	: : :	:::	:::	:::	: : :
D.	:::	: : :	: :,:	:::	:::	: : ;:
NOBTH ISLAND. AUCKLAND DISTRICT.	4 0 Auckland 3 0 Whakapara	3 0 Thames Boro-o-tarao	0000	9 9 Tham", 3 0 Whakapara	3 0 Thames	000
-	930 ironbark 965 totara 1,000 "	800 " 319 " 145 ".	150 " 141 " 179	1,000 puriri 1,000 totara	109	472 totara 214 "
-	Whakapara	Poro-o-tarao		Whakapara	Whakapara	Hukerenui ors Poro-o-tarao
	1897 C. G. Arnold 1898 D. Cleary " W. H. Woolley	" Tutahanga W. Fell	" D. Bruce G. Boulter W. Campbell	"   D. Cleary   H. Whimp   Tahi	" A. Oampbell " T. Aspden	J. Dobbs Hukerenui .
· · · · · · · · · · · · · · · · · · ·	2 Oct., 30 Mar., 20 May,	12 July, 12 July,	12 July, 12 July, 12 July,	23 July, 1 Aug., 5 Aug.,	10 Aug., 18 Aug.,	17 Sept., Various.

		8 Dec., 1898.		25 May, "	31 Aug., "		19 Feb., 1899.		
	•	1,921		532	1,254	200	572	200	
		26 June, 1898	,	26 Mar., "	28 April, "	28 April, "		31 Jan., 1899	
		:		:	:	:	:	:	
		:		:	:	:	:	:	
		No fixed rate		*		*	,		
		:		:	:	:	:	:	
Ä.		:		:	:	:	:	:	
SOUTH ISLAND	ELSON DISTRICT.	Belgrove		:	:	:	:	:	
SOUT	NELS	s. d. 2 0	6	0	0	16	10	1	
		2,000 black-	500 ditto	1.000	200	200	200	•	
		:	:	:	:	:	-	,	
		:	:	:	:	:	:		
		Belgrove		•					
		Thomas and Holland	T. A. Price	P. Higgins	Anglesey and Blanchett	J. A. Brewerton	T. Price		
		26 Feb., 1898	26 Feb.,	28 Feb.,		Z Mar.,	9 Dec., "		

APPENDIX D-continued.

SCHEDULE of SLEEPER CONTRACTS CURRENT on 1st April, 1898, and CONTRACTS ENTERED INTO by the Public Works Department, &c. -continued.

FH I S L A N D — continued.   No fixed rate   No fixed rate   1,004   1,004   1,006   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000	
No fixed rate   Narious   692   7 Oct,   1,014   1 Aug,   1,000   31 Dec,   1,000   4 Nov.   1,000   4 Nov.   1,000   9 Dec,   1,796   9 Dec,   1,706   9 May,   1,000   27 Nov.   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000	SOUTH
No fixed rate   1,014   1 Aug.	700 silver- 2
No fixed rate   16 May, 1897   1,000   31 Dec.	1,000 ditto 2
No fixed rate   16 May, 1897   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796   1,796	. :
No fixed rate   16 May, 1897   1,000   9 Dec.,   1,000   27 Nov.,   1,000   21 Nov.,   1,000   14 Nov.,   1,000   14 Nov.,   1,000   14 Nov.,   1,000   14 Nov.,   1,000   14 Nov.,   1,000   14 Nov.,   1,000   15 Dec.,   1,000   15 Nov.,	
No fixed rate   16 May, 1897   1,000   27 Nov.	2,000
No fixed rate   16 May, 1897   1,000   27 Nov.	1 61
No fixed rate   16 May, 1897   1,000   9 May,   1,000   21 Dec.,   22 May,   1,000   21 Nov.,   17 Aug.,   1,000   22 Dec.,   1,000   22 Dec.,   1,000   27 May,   1,000   27 May,   1,000   27 May,   1,000   18 Dec.,   1,000   15 Nov.,   1,00	400 , 2 6 3,000 , 2 6
No fixed rate   16 May, 1897   1,000   9 May, 1897   1,000   21 Dec., 22 May, 27   1,000   21 Dec., 17 Aug., 27   1,000   22 Dec., 22 May, 27   1,000   22 Dec., 22 Oct., 23 Dec., 24 Jan., 1898   2,000   27 July, 24 Jan., 1898   1,000   23 Dec., 31 Dec., 24 Jan., 1898   1,000   18 Sept., 31 Max., 1898   1,317   19 Sept., 31 Max., 1898   1,317   19 Sept., 31 Max., 1898   1,000   15 Nov., 31 Max., 32 Max., 31 Max., 31 Max., 32 Max., 31 Max., 31 Max., 32 Max., 31 Max., 31 Max., 31 Max., 32 Max., 31 Max., 31 Max., 31 Max., 32 Max., 31 Max., 32 Max., 31 Max., 31 Max., 32 Max., 31 Max., 31 Max., 32 Max., 31 Max., 32 Max., 31 Max., 32 Max., 33 Max., 33 Max., 33 Max., 33 Max., 33 Max., 33 Max., 33 Max., 33 Max., 33 Max., 33 Max., 33 Max., 33 Max., 33 Max., 33 Max., 33 Max., 33 Max., 33 Max., 33 Max., 33 Max., 33 Max., 33 Max., 33 Max., 33 Max., 33 Max., 33 Max., 33 Max., 33 Max., 33 Max., 33 Max., 33 Max., 34 Max., 34 Max., 34 Max., 34 Max., 34 Max., 34 Max., 34 Max., 34 Max., 34 Max., 34 Max., 34 Max., 34 Max., 34 Max., 34 Max., 34 Max., 34 Max., 34 Max., 34 Max., 34 Max., 34 Max., 34 Max., 34 Max., 34 Max., 34 Max., 34 Max., 34 Max., 34 Max., 34 Max., 34 Max., 34 Max., 34 Max., 34 Max., 34 Max., 34 Max., 34 Max., 34 Max., 34 Max., 34 Max., 34 Max., 34 Max., 34 Max., 34 Max., 34 Max., 34 Max.,	W
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	1,000 silver- 2 6
22 May,   1,000   16 Nov.   17 Aug.   1,000   21 Nov.   17 Aug.   1,000   22 Dec.   1,000   27 July,   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000	pine ditto
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17 Aug.,   17 Aug.,   1,000   22 Dec.,   8 Sept.,   1,000   22 Dec.,   8 Sept.,   1,000   22 Dec.,   1,000   22 Dec.,   1,000   27 July,   22 Oct.,   1,000   27 July,   22 Oct.,   1,000   27 July,   22 Oct.,   1,000   27 July,   21 Dec.,   1,000   27 July,   21 Dec.,   1,000   28 Dec.,   21 Dec.,   21 Dec.,   22 Dec.,   23 July,   23 July,   24 July,   24 July,   24 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 July,   25 Jul	101
Sept.   1,000   3 Dec.   1,000   27 May,   31 Dec.   1,897   1,499   31 Dec.   1,000   18 Sept.   1,000   14 Sept.   1,000   14 Sept.   1,000   14 Sept.   1,000   14 Sept.   1,000   14 Sept.   1,000   14 Sept.   1,000   14 Sept.   1,000   14 Sept.   1,000   14 Sept.   1,000   14 Sept.   1,000   14 Sept.   1,000   14 Sept.   1,000   14 Sept.   1,000   14 Sept.   1,000   14 Sept.   1,000   14 Sept.   1,000   14 Sept.   1,000   14 Sept.   1,000   14 Sept.   1,000   14 Sept.   1,000   14 Sept.   1,000   14 Sept.   1,000   14 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1,000   18 Sept.   1	
22 Oct.   1,000   3 Dec.   1,000   7 July   24 Jan.   1898   2,000   7 July   24 Jan.   1898   2,000   27 May,   1,000   28 Dec.   1,000   18 Oct.   1,000   18 Oct.   1,000   1 July   1,	1,000 2 6
1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 July, 1,000   7 Ju	C1
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1000   23 Dec.,   1,000   23 Dec.,   1,000   18 Oet.,   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000	1 61
1,000   18,000,	61 (
No fixed rate   1,635   15 Depr.   1,635   15 Depr.   1,000   15 Nov.   1,000   1 Aug.   1,000   1 Aug.   1,000   1 Aug.   1,000   1 Aug.   1,000   23 Dec.   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891   1,891	1,000 % 2 0
No fixed rate   1,000   15 Nov.,   1,000   15 Nov.,   1,000   1 Aug.,   1,000   1 Aug.,   1,000   1 Aug.,   1,422   15 Nov.,   1,422   1,422   15 Nov.,   1,422   15 Nov.,   1,422   15 Nov.,   1,422   1	1 67
1,000   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,422   1,42	
1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.422   1.42	
One-tenth first three months.  one-tenth each succeeding 23 April, 1898 7,000	c1 (
One-tenth first three months, one-tenth each succeeding 23 April, 1898 7,000	2,000 , 2,6
one-tenth each succeeding 23 April, 1898 7,000	
	7,000 " 2

APPENDIX D-continued.

SCHEDULE of SLEEPER CONTRACTS CURRENT on 1st April, 1898, and Contracts entered into by the Public Works Department, &c. -continued.

Date of Contract Ontractor's Name. Agreement.	₩	Address.	No. o contra and and Tri	No. of Sleepers contracted for, and Class of Timber.	Rate per Sleeper.	Place of	Delivery.		Rate per Month.		Date for Completion.	Total delivered to Date.		Date of Completion.
E O O S	· 🖼	· 🖼	· 🖼	· 🖼	TH I	S L A N D - DISTRICT	<ul> <li>continued.</li> </ul>	n.		,				
J. Adamson Boss 2,000 silver-	2,000 si	2,000 si	00 silver-		. 6. 6. 6. 6.	Hokitika	:	No fixed rate	rate	:	No fixed rate	2,000	20 Feb., 1899.	, 1899.
W. A. Lawson Kumara 1,000 ditto	1,000 di	-5	-5		9 9	Kumara	:	:	:	:	z	1,000	14 June,	<b>~</b>
Murtha T. " Townshirth		1,000 "			) (C) (C)	· · · · · · · · · · · · · · · · · · ·	: :	: :	: :	: :	2 2	750		•
d and party   Okarito	: :	2,000			9 0	Hokitika	: :	::	::	: :	2 2	1,374		
W. A. Saddler   Nelson Creek 1,000 " 2 W. H. Hunt 1,000 " 2	1,000			C1 C1	တ္ တ	Brunner	: :	: :	: ;	:		1,000	11 Mar.,	, 1899. 1898.
ens and party Rimu 1,000 "	1,000			C4 C	ဖ	Hokitika	:	:	: :	:	: :	908	'	
T. Joyce Greymouth 1,000 " 2 1,000 " 2 2	1,000	* *	* *	N C4	၀	Brunner	: :	::	: :	: :	£ :		11	
Nicholas Greenstone 1,000 "	1,000 "	: 2	: 2	C1	9	Kumara	:		: :	:	: <b>:</b>	1,000	24	, 1899.
J. Patterson Kotuku 1,000 " 2	ru 1,000 "			C1 C	မှ ဖ	Brunner	:	:	:	:		1,000	27	
Cobden 1.000	in 1,000 "	. :	. :	N 03	ာ ဖ	Brinner	: :	: :	•	:	٤ :		8 Dec.,	
Stephen Rimu 1,000 "	1,000 ,			<b>C</b> 7	9	Hokitika	: :	:	: :	:		503		
	Kawhaka 1,000 "			C1 C	9 u	Dunning	:	:	•	:	*	1,000	26	, 1898.
Hokitika 1,000 "	Hokitika 1,000 "	<b>.</b>	<b>.</b>	4 04	ာမ	Hokitika	: :	. :	: :	: :	<b>:</b> :	1.000		
, Gilpin, and Kokiri 1,500 "	Kokiri 1,500 "			<b>C1</b>	9	Brunner	: :	::	::	: :	: :	1,500	12	
Anderson Anderson Buthren, Hogan, and Maori Gully 1,500 " 2	Maori Gully 1,500 "	1,500 "		<b>C</b> 1	9	:	:	:	:	;	•	1,500		, ,
Kawhaka 1,000 "	1,000			<b>C</b> 1	9	Hokitika	. :		;	;	;	1.000	-	
Cobden 1,000 "	1,000			<b>C</b> 7	9	Brunner	:	-:	: :	:	: :	1,000	22 Dec.,	
thers Kokiri 1,500 "	1,500 "			CA (	9	:	:	:	:	:	8	1,163		:
G. Murcha Kumara 1,000 " 2	1,000 "			C4 C	တ္ဖ	Kumara	:	:	:	:	*			000
rothers and "	2,000 "			a C4	9	"	: :	::	::	::		1,877		Test., 1936.
	1,500 "			<b>C3</b>	9	:	•	:	•			1.500	6 Oct.	1898.
J. Gale Arahura 1,000 "	1,000	: 4	: 4	C4	9	Hokitika	:		: :	:	: :	1,000		
Kotuku	. 000,1			C1 ·	9	Brunner	:	: :	:	:	: *	1,000	31	
inders and party Kokiri 1,500 "	1,500			04 (	9	:	:	:	:	:		1,500	33	•
Westson 1,000 ".	, 000, t   · · · · ·			N C	ه د	4	:	:	:	:		. 1,000		, °
, 000, 1	, 000, 1			N C	ی د	Kumara	:	:	:	:	•	. 1,000	27 -	1888.
ans Maradan 1,000 "	, 000 t			d C.		Paros.	:	:	:	:		:	07 Mer	
R	1,000			• • •		Hokitika	: :		: :	: :	. :	794	4	•
Kawhaka 1,000 "	Kawhaka 1,000 "			<b>C</b> 3		:	:	:	:	:		::		
	Various 42,912 "			<i>C</i> 4		Various	:	:	:	:	: >	33,366		:
			- 1					_		_		_		

* Contracts entered into for supply of sleepers in lots of less than 1,000.

# APPENDIX D-continued.

SCHEDULE of SLEEPER CONTRACTS CURRENT on 1st April, 1898, and Contracts entered into by the Public Works Department, &c .- continued

Date of Contract or Agreement.	Contractor's Name.		Address.	K 9	No. of Sleepers contracted for, and Class of Timber.	Rate per Sleeper.	Place of Delivery.	Rate p	Rate per Montb.	Date for Completion.		Total delivered to Dafe.	Date of Completion.
·					SZ.	SIHINOS	ISLAND—continued.			-	,		
				_	_	orad(	OTAGO DISTRICT.			_	_	_	•
1 April, 1898	Ferrier Brothers	Inve	Invercargill	;	500 black-		Forest Hill Railway	No fixed rate	:	Various	:	525 3	30 April, 1898.
1 April, " 1 May, "	F. Jack J. Gardiner	Winton	ton	::	50 m/ 20	2 6 2s. 6d. and 3s.	* *	::	::	2 2	::	3,135 3 1,277 3	31 Oct., , , 31 Dec., ,
1 Aug., "	Latta Brothers Egerton Brothers	Owaka	ka ton	;;	totara 500 kamai 1,000 black-	60 60	Otago Central Railway Forest Hill Railway	::	::	2 2	::	500 8	81 Aug., ". 30 Nov., ".
1 Oct., "	Jack Brothers T. J. Dixon	::	::	• •	4,000 ditto		: :	::	::	: :	::		31 Mar., 1899. 31 Mar., "
1 Nov.,	W. St. George R. Jamieson and Co.	::	::	::	, , 800 200	N 6N 6		::	::	: :	::	803	0 Nov., 1896. 0 Nov., "
1 Nov., ,	T. Kilkelly G. A. Whealler	Bluff		:::	" ironbark	2 6 19s. per	Bluff	The lot withi	The lot within two months	15 Jan., 1899	: : :		0 Nov.,
1 Dec., "	J. Clerk	Winton	ton	:	500 black-	2 6 p.m.	Forest Hill Railway	No fixed rate	:	Various	:	500	31 Dec., 1898.
1 Jan., 1899	C. Lake	:	:	:	500 black- pine and	2s. 6d. and 3s.	. *		:		:	200	31 Jan., 1899.
1 Jan., "	Cox and Fryer	•	:	:	fotara 700 black-	2 6		:	:	ŧ	:	750	31 Jan.,
1 Jan., " 1 Jan., "	A. W. Pettigrew P. Kilkelly	;;	::	::	500 ditto 1,000 black-	2 6 2s. 6d. and 3s.		::	::		· · · · · · · · · · · · · · · · · · ·	1,000	31 Jan., , , 28 Feb., , ,
1 Feb., "	Т. Атов	:	<u>,</u> :	:	totara 600 black-	3 6	ž	:	:		:	009	28 Feb.,
1 Mar., "	D. King	:	:	:	1,000 ditto	2 6		:	:		:	1,000	31 Mar., "

# APPENDIX

# ANNUAL REPORT ON PUBLIC WORKS BY THE ENGINEER-IN-CHIEF.

The Engineer-in-Chief to the Hon. the Minister for Public Works.

Sir.— Public Works Office, Wellington, 1st July, 1899.

I have the honour to submit the following report on the various works completed and in progress throughout the colony during the past year.

### RAILWAYS.

### ABSTRACT.

The following table shows the expenditure and liabilities on Government railways in New Zealand up to the 31st March, 1899:—

Name of	Railway.			Total Length of Railway or Section.	Open for Traffic.	Expenditure to 31st March, 1899.	Liabiliti on 31st March,		9.
*				M. ch.	M. ch.	£ s. d.	£	s.	đ.
Kaihu Valley				19 40	17 21	54,858 19 2	66	0	
Kawakawa				7 41	7 41	79,367 17 7			
Whangarei-Kamo and Exter	nsion			46 74	21 26	135,970 8 2	458	0	0
Helensville Northwards				110 0	10 48	83,763 6 0	799	0	0
Kaipara-Waikato, with Bran	nches			151 1	151 1	1,219,493 6 10			
6				62 58	62 58	315,554 16 6	3,941	0	0
				69 33	69 33	353,321 18 7	113	0	0
Wellington-Napier and Pa	almerston l	North (inc	luding						
Te Aro Extension and Gre	ytown Bran	nch)		233 12	233 12	1,926,870 2 9	137	0	0
Wellington-Foxton						42,116 3 4			
Foxton-New Plymouth, with	h Branches			195 49	195 49	1,298,302 13 8			
				213 0	69 40	646,122 17 2	6,695	0	0
Nelson-Roundell				52 0	22 73	$162,541 \ 12 \ 2$			
Midland Railway*						82,050 5 6	20,615	0	0
Greymouth-Nelson Creek				7 51	7 51	166,471 11 11	· • •		
				24 37	24 37	187,542 0 3			
TTT 1 ( 37 )				19 56	19 56	187,512 15 7			
Westport-Ngakawau Extens	sion to Mok	ihinui†		7 12	7 12	••			
		••		3 69	3 69				
Picton-Hurunui—									
Picton-Blind River Sec	tion			37 5	20 42	254,308 7 8	800	0	0
Hurunui-Red Post Sect	ion			9 50	9 50	39,093 6 1			
Hurunui-Waitaki, with Bra				474 41	433 38	2,135,046 7 6	56	0	0
Canterbury Interior Main L	ine—Oxford	l-Temuka	٠	83 0	11 44	59,343 9 2			
Waitaki-Bluff, with Branch	ies			503 50	459 33	3,312,251 0 7	4,946	0	0
				182 56	77 45	765,625 14 4	12,753	0	0
Invercargill-Kingston, with		ranch		117 4	97 44	279,214 13 2	,,,		
Forest Hill Railway-Winte	on-Hedgeho	pe§		12 40		15,275 15 1	1,789	0	0
				57 56	57 56	214,413 12 3	.,		
				٠.		57,824 18 7	591	0	C
Miscellaneous				١.,		10,336 19 11			
Stock of permanent-way on						33,262 3 5	17,296	0	0
Value of permanent-way in	hands of	Railway I	Depart-			,	,	_	-
ment		••	•		<b></b>	25,000 0 0	١		
Rolling-stock						1,884,533 14 0	6,816	0	C
					<del></del>				
Total			••	2,701 35	2,091 19	16,027,390 16 11	77,871	0	C
PROVINCIAL GOVE	RNMENT LIE	NES, ETC.							
Canterbury (lengths include	ed above)					731,759 0 0			
Otago		• •				372,522 2 5			
Gisborne to Ormond Tramw	ay	• •			••	4,975 1 7			
				2,701 35	2,091 19	17,136,647 0 11	77,871		

^{*} The amount shown as expenditure represents the proportionate amount unrecovered from the Midland Railway Company. † The funds for this extension—namely, £35,501 2s. 11d.—were provided by the Westport Harbour Board. † The funds for purchase of this line, £15,745, were provided by the Westport Harbour Board. † The expenditure on this line as a tramway was made by the Lands Department.

93 D.—1.

During the year a total length of 33 miles 74 chains of railway was opened for traffic. The following table contains particulars of the sections:-

Railway.	Section.	Leng	th.	Date opened for Traffic.
Whangarei-Kamo Extension Waikato-Thames Otago Central	Whakapara-Waiotu Paeroa-Thames Kokonga-Ranfurly Total	 19 11	ch. 29 20 25	21st December, 1898. 19th December, 1898. 14th December, 1898.

Appended hereto is a coloured diagram showing the length of railway opened each year since the commencement of the public works.

### WHANGAREI-KAMO RAILWAY EXTENSION.

Hukerenui Section (11 m. 25 ch. to 14 m. 57 ch.; length, 3 miles 32 chains).—This section was completed for traffic and handed over to the Working-Railway Department on the 21st of December last. The further extension of this line has not yet been authorised by Parliament, and, therefore, though plans, &c., are ready, the proposed extension to 16 m. cannot be put in hand.

### HELENSVILLE-NORTHWARD RAILWAY.

Tahekeroa Section (46 m. 36 ch. to 49 m. 54 ch.; length, 3 miles 18 chains).—This section has been resurveyed, and formation works for the first two miles have been well advanced towards completion. Contracts for ironbark and native timber have been let, and the latter has been delivered, and the necessary ironwork for the bridges is being procured. The land-plan survey is in progress and about half done.

Komokoriki Section (49 m. 54 ch. to 56 m.; length, 6 miles 26 chains).—A start is being made

with falling and clearing the bush on the first two miles.

### Grahamstown-Te Aroha Railway.

Thames-Paeroa Section (0 mile to 19 m. 20 ch.; length, 19 miles 20 chains).—The reconstruction and completion of this section was sufficiently well advanced to enable it to be opened for traffic on the 19th of December last. Since then the several works on the section have been for the most part finished, and it is expected that the whole section will be completed by the end of this month. A telegraph-line has been constructed from the Thames to Paeroa.

# NORTH ISLAND MAIN TRUNK RAILWAY.

### North End.

Mokau-Poro-o-tarao Section (34 m. 43 ch. to 49 m. 7 ch.; length, 12 miles 43 chains.)—This

section has been maintained during the year, and is in fair order.

Ohinemoa Section (49 m. 18.79 ch. to 53 m. 53 ch.; length, 4 miles 34.21 chains).—Very considerable progress has been made with the earth-work on the first three miles of this section. The country is very treacherous, and requires a considerable amount of draining to insure the stability of the works. The draining done so far appears to be fairly successful.

### South End.

Makohine Section (22 m. 40 ch. to 33 m. 40 ch.; length, 11 miles.)—The tunnel at 33 m. has been completed. The only work now being done on this section is the flattening of the slopes of the papa cuttings between 33 m. 5 ch. and 33 m. 20 ch.

Makohine Viaduct.—The concrete foundations were completed in September last. of manufacturing the piers was begun in August last; an electric light installation was fitted up in December last, and work has since been carried on night and day. The drilling of the component plates and angle-sections of the piers and the fitting of them together is now well advanced, the bases, anchor-girders, and bolts, the columns and main-face diagonal braces being all well advanced, and a start will shortly be made with the erection of the pier D. A considerable amount of work has been done in drilling the plates, angles, &c., for the centre-span and cantilever girders.

Mangaweka Section (33 m. 40 ch. to 40 m. 40 ch.; length, 7 miles). — Nearly all the heavy works on this section are in hand, and considerable progress has been made with many of the cuttings, culverts, &c. Three out of the four tunnels on the section are in hand, and, in addition to the approach cuttings, about 23 chains of 8ft. by 8ft. headings have been driven in the three tunnels, the sheds and plant for making concrete blocks for tunnel-lining have been removed from Powhakaroa to 35 m. 56 ch., and the work of making blocks for the tunnel-arching is begun. A service-road from the Rangitikei River to the sheds has been cut. It is proposed to deviate the line from about 36 m. 51 ch. to 36 m. 70 ch., and substitute a tunnel for a bridge, some heavy cuttings and other works. The overhanging cliffs and the steep slope to the river below the line

would make the works at first proposed somewhat insecure.

Paengaroa Section (40 m. 40 ch. to 50 m. 40 ch.; length, 10 miles).—The felling and clearing of the bush on this section was finished early in the year, and the earthworks and culvert construction have been put in hand up to 44 m. 50 ch., and most of the lighter work has been finished. Deviation surveys to improve the alignment, &c., have been made at Taihape Township.

The works have been reduced, and a better station-site for the township obtained.

### MIDLAND RAILWAY.

Belgrove Section (21 m. 35 ch. to 26 m. 71 ch.; length, 5 miles 36 chains).—This section was maintained for part of the year until the line was opened for traffic.

Motupiko Section (26 m. 71 ch. to 29 m. 20 ch.; length, 2 miles 29 chains).—The platelaying

and other works on this section were completed during the year.

Motueka Section (29 m. 20 ch. to 30 m. 58 ch.; length, 1 mile 38 chains).—The bridge and other works, including the station yard and station buildings, were finished during the year.

The above three sections were opened for regular traffic on the 1st of March last, though passenger trains had been run over the sections previous to this date, and goods trains for a

Springfield Section (0 m. to 6 m.; length, 6 miles).—The platelaying and ballasting has been done from 4 m. 59 ch. to 5 m. 47 ch., and a temporary siding laid at 5 m. 43 ch. An office, &c., has

been built at 5 m. 33 ch., and it has been connected to Springfield by a telephone line.

Mount Torlesse Section (6 m. to 18 m.; length, 12 miles).—The cuttings, banks, culverts, &c., are in hand up to 9 m. 63 ch. at Staircase Gully, and considerable progress has been made. Two tunnels have been started, and some progress has been made with the driving, and lining has been begun. One tunnel-front has been completed. The lining is of brick and rubble masonry. A contract for the supply of 100,000 bricks has been let, and over half the quantity has been delivered. A service-road has been made up to 9 m. 60 ch.; and a branch-road has been made to the Waimakariri River, to get a supply of shingle. All this work has been satisfactorily carried out by co-operative labour.

Otira Section (32 m. 11 ch. to 37 m. 75 ch. from Stillwater, and 12 m. 21 ch. to 6 m. 8 ch. from Arthur's Pass; length, about 12 miles 7 chains, including deviation).—A large amount of work has been done on this section during the year, and very good progress has been made. The line is nearly completed for about eight miles beyond Jackson's Railway-station, and a locomotive ran from Jackson's to Aicken's for the first time on the 29th ultimo. There are now only a few gaps in the banks between Aicken's and Otira Stations, and two small bridges have to be finished. The permanent-way has been laid for seven miles and a quarter, nearly two miles of ballasting has been

finished, and about a mile and a half more is partly done.

Three locomotives are in use for hauling ballast and stone for the protective-works. Two steam-cranes are in use for loading stone, and a third is being erected. A flood, said to be the highest during the last twenty-five years, occurred in the end of January last. This flood showed that the bank was too low in some places. Some damage to the unfinished works was caused by the flood; but some relief was got by an advantageous change in the river-bed at one of the worst places. Similar changes might at other times cause considerable trouble in the future. It will take a considerable time for the protective stone-work to sink sufficiently far into the shingle to be beyond the influence of scour, and until this takes place there will always be some danger of damage by floods where the railway-bank runs along the river-bed. Every effort is being made to push on with the work of protecting the bank.

The weather during the year has been very favourable for the prosecution of the works on this

section.

The location of the line beyond the Otira Station, over Arthur's Pass, is still under consideration. A special report by a committee of engineers, dealing with the general question, was submitted in October last.

### BLENHEIM-AWATERE RAILWAY.

The formation on this line was completed under contracts up to 28 m. 38.5 ch. some years ago, and the line was opened to 20 m. 42 ch. on the 18th April, 1893. A start was made to complete the line in September last. The small bridges between 20 m. 54 ch. and 23 m. 60 ch. have been put in hand, and the earthworks on the line up to 28 m. 38 ch. have been, for the most part, made good.

Awatere Section (28 m. 38 ch. to 33 m. 60 ch.; length, 5 miles 22 chains).—The earthworks and culverts on this section were begun, and were well in hand early in the present year. are generally of a light nature, except at the approaches to the Awatere Bridge. All the cuttings and banks up to the Awatere River are in hand, and some of them are almost completed; the

culverts, pipes, &c., are completed. The approach cuttings to the Awatere Bridge have been begun.

A contract was let to Messrs. Scott Brothers, of Christchurch, in April last, for the construction of a combined road and railway-bridge over the Awatere River. This bridge will be 1,065 ft. long. The superstructure is to be of steel, supported on cast-iron cylinder and concrete piers and abutments. The contract price is £22,001 18s. 6d., and the contract date for completion is the 8th April, 1901.

# INCH VALLEY LIME-QUARRY RAILWAY.

This line is a branch of the Palmerston-Dunback line, and branches off at the Inch Valley Station, about six miles from Palmerston South. Its length is about two miles and a quarter. The work of construction was begun in August last, and is now well advanced towards completion. Two timber bridges have been built—one over the Shag River is 388 ft. long; the fencing, cattle-stops, &c., are finished. The earthworks were somewhat heavy. A lime-kiln is being built under contract, and the plate-laying will be begun shortly. A cooler and hauling-engine have yet to be provided to complete the works. Land-plan surveys for a mile and three-quarters have been done.

### OTAGO CENTRAL RAILWAY.

Hyde-Kyeburn Section (56 m. 20 ch. to 77 m. 35 ch.; length, 21 miles 15 chains).—The works on this section from Kokonga to Ranfurly Station, including the bridge over the Taieri River, were finished during the year, and the section was opened for traffic on the 14th December last.

Wedderburn Section (77 m. 35 ch. to 85 m. 60 ch.; length, 8 miles 25 chains).—Work was begun on this section in July of last year, and, as the works are for the most part of an easy character, very good progress has been made, the earthworks being completed on nearly five miles and well advanced on the remainder of the section. The Eweburn Bridge (a small structure) and the Wedderburn Station are the principal works yet to be done. It is expected that the line can be opened for traffic to Wedderburn Station (85 m. 60 ch.) by next winter.

Ida Valley Section (85 m. 60 ch. to 93 m. 20 ch.; length, 7 miles 40 chains).—Work was begun on this section in March last. A number of culverts has been put in. Land-plan surveys for a

mile and three-quarters have been done, and several of the cuttings have been started.

#### SEAWARD BUSH RAILWAY.

Waituna and Titiroa Sections (18 m. to 24 m. 52 ch.; length 6 miles 52 chains).—All the formation-works, bridges, and flood openings are finished, the rails laid, and the ballasting done up to 24 m. 52 ch. The Waimahaka Station buildings are not yet complete. Up to the date of opening, on the 9th of June last, traffic was worked by the ballast-engine on these sections. The works were very heavy, high banks and numerous flood-openings being required across the swamps on each side of the Mataura River, in addition to the bridge over the river itself.

#### FOREST HILL RAILWAY.

During the year the reduction of the 1 in 40 grades, widening of earthworks, relaying the first ten miles of the line with 40 lb. rails have been finished, and re-ballasting the line has been nearly completed. A considerable amount of station accommodation has been provided.

#### SURVEYS.

#### SURVEYS OF NEW LINES.

Hukerenui-Kawakawa.—An examination of the country has again been made, and a start with

locating the line has been made at the Hukerenui end.

Paeroa-Waihi Branch Line.—The survey of this line was completed last year, and since then the plans, &c., have been finished. The estimated cost of the branch line is £82,000 for a length of 12 miles and 30 chains.

North Island Main Trunk Railway (north end).—The permanent survey has been extended to 83 m. to a point four miles south of the crossing of the Wanganui River. The plans have been

finished for ten miles up to 68 m.

South End.—The trial line has been run to the junction with the north end survey at 83 m. on the chainage from Te Awamutu. This point is 129 m. 40 ch. on the chainage from Marton junction. The permanent line has been pegged up to 109 m. 60 ch. All the viaducts between Waimarino and the Wanganui River have been avoided.

#### GISBORNE-ROTORUA SURVEY.

A reconnaissance survey, to determine the best route for a line of railway between Gisborne and Rotorua, is nearly completed, and also a similar survey between Gisborne and Opotiki; the complete reports are, however, not yet to hand.

## NAPIER-GISBORNE RAILWAY.

Three lines are explored and aneroid heights of the principal points determined between Napier and Wairoa, one being the route proposed by Mr. Knorpp along the sea coast, another an inland route viā the Esk Valley and across country to Mohaka, thence it follows the Te Kiwi and Ohinepaka Valleys to the Wairoa River. A third line viā the Tutaekuri and Mohaka Valleys was found to be exceedingly rough. Between Wairoa and Gisborne, two routes were explored. The line follows the Wairoa River to Opoiti, then two routes are available—one viā the Mangapoika and Te Arai Valleys, and the other following the Hangarou River and the Mangaweka and Te Aroha Streams to the Gisborne Plains. After the exploration was finished, extending over three hundred miles, the trial line survey was begun, the route finally selected for this being that along the Esk Valley. About forty-two miles have been finished from Napier, and about six miles additional have been graded. The ruling gradient obtained is 1 in 40, with 6-chain curves.

#### WELLINGTON-WOODVILLE RAILWAY.

A trial line has been surveyed from near Kaitoke Station to Featherston via the road saddle, and a line has been chained and aneroid levels taken between Kaitoke Station and Woodside Station via the Tauherinikau River; also, trial lines have been run between the Upper Hutt and Kaitoke Stations. An exploration was again made of the suggested route via the Wainui-o-mata, Orongo-rongo, and Wairongomai Valleys, and also of two other suggested routes. The surveys show that much better grades are obtainable at reasonable cost between the Upper Hutt and Woodside Stations than exist on the opened line.

#### MIDLAND RAILWAY.

A deviation trial-survey vid the Tadmor Valley was begun in June of last year, and had been completed from 36 m. 10 ch. up to 52 m. 40 ch. by the end of May of this year. It is expected that the field-work of this survey will be finished this month, and the plans in about six weeks time. Much easier grades are obtainable, and the works will be lighter by this route than by the route originally proposed. More country will be opened up.

#### BLENHEIM-WAIPARA RAILWAY SURVEY.

The working-survey has been extended 33 m. 47 ch. to 38 m. 40 ch. This carries the per manent location through the Starborough Estate. A trial survey has been finished up to 51 m. 5 ch., and is still in progress, the explorations to determine the route being advanced some distance beyond the above-mentioned point.

In May last a trial line survey was started at the Waipara end to determine the best route and the character of the works required to connect the main line with the section of this line per-

manently located through the Cheviot Estate.

#### SLEEPERS.

A large number of contracts and agreements for the supply of sleepers were current during the year ended 31st March last, and the deliveries made in the districts from which they were obtained were as follows, viz.:-

Auckland District: 930 ironbark, 1,167 puriri, 5,717 totara.

Nelson District: 5,279 black-birch. Westport District: 13,035 silver-pine. Westland District: 104,536 silver-pine.

Otago District: 694 ironbark, 16,907 black-pine and totara, 500 kamai.

Details of contracts current during the year ended 31st March last will be found in Appendix D.

#### ROADS, BRIDGES, ETC.

#### AUCKLAND DISTRICT.

A contract for repairs to Mangere Bridge was completed during the year, also contracts for

repairs to the Panmure and Orakei Bridges.

The District Engineer has supervised the construction of a further portion of Whangaparapara to Blind Bay Road for the Mines Department. This is being done by co-operative labour.

#### Westland Districts.

The road from Waimangaroa to Denniston has been completed to 3 m. 40 ch.; the width is 7 ft. The survey has been completed to Denniston. The following works were inspected and reported on: Karamea Bridge; road from Lyell Bridge to Ryan's; road, Costello's Hill to Charleston; road, Granity Creek southwards; road from Westport to Waimangaroa; road from Reefton to Black's Point.

The deviation of the Great South Road round Mount Hercules is nearly completed. The

length is 5 m. 45.61 ch.

Estimates have been prepared showing the cost of the completion of the Mapourika Lake

Road. The work requiring to be done is the widening of the existing track.

Repairs to the Okarito Forks-Waiho Road have been carried out during the past summer. These consisted of putting metal on some of the worst parts of the road, cleaning out drains, renewing culverts, and repairs to a bridge. Only partial repairs were possible with the money available.

The following works were reported on for the Mines Department: Road, Grey River to Moonlight; track, Moonlight to Paparoa; track to Crœsus Battery; Ten-mile Bridge, Barrytown Road; Twelve-mile Road Bridge, Grey; Kumara Road; Denniston Track; No Town Bridge; Blackball-Paparoa Track; Moonlight-Paparoa Track; Ahaura Bridge repairs; Paroa-Teremakau Road; Cape Terrace Road; Donnelly's Creek foot-bridge, Ross; Brandy Jack's Creek Bridge, Totara Flat; Grey River; Moonlight Road; Crœsus Track; track, Ten-mile Creek, Barrytown Road; track, Lake Brunner to Maori Creek; road-bridge, Maori Creek; bridge over Little Grey at Squaretown. Reports were furnished on Stillwater Road Bridge; Taipo Seven-mile-track; flood-damage, Hokitika Wharf; roads and bridges between Okarito, the Forks, Mapourika, and Waiho.

## MISCELLANEOUS.

Head Office plans and specifications for a steel cantilever road-bridge over the Rangitikei River at Mangaweka were prepared. Designs for the restoration of the Vinegar Hill Bridge were reported on for the Rangitikei County Council, and on a suspension-bridge over the Mangawhero River for the Wanganui County Council. A report on a suitable design for a bridge over the Taueru River was furnished to the Carterton-Taratahi Road Board.

A report on the Shoal Bay Rifle-range was furnished to the Defence Department.

A considerable amount of work has been done in improving the Mount Eden Rifle-range, and a small house has been built to hold apparatus, &c.

#### PUBLIC BUILDINGS.

#### AUCKLAND DISTRICT.

Te Aroha Sanatorium.—The new bath-house was completed, and an outside swimming-bath has been concreted and plastered, and other works done.

Government House, Auckland.—The repairing and renovating of the interior of the building

was continued and finished during the year, and by the end of April everything was put in fair order.

A new guard-house has been built at the Princes Street entrance. The grounds have been kept in their usual order; a part was occupied by the Auckland Industrial and Mining Exhibition from May, 1898, to February, 1899, but the buildings, &c., have not yet all been removed.

An exhibit of timber, &c., was made at the Auckland Industrial and Mining Exhibition.

Departmental Buildings, Auckland.—The usual repairs were done. Considerable trouble has been experienced with the warping of window-sashes to such an extent as to break the glass. It has been found necessary to remove some of the worst sashes.

Departmental Buildings, Thames.—Repairs have been done to the main building. A strongroom has been built for the Courthouse, and the Post-office outbuildings have been rebuilt or

repaired.

Departmental Buildings, Tauranga.—A chimney struck by lightning has been repaired, and a new tank fixed.

New Gaol, Mount Eden .- The front walls of the central block are now up to the level of the ground floor, and the back walls nearly.

Prison Gaol, Shortland.—Repairs and painting to residence have been done.

Auckland University College.—Plans for a large addition have been prepared and a contract let. Good progress is being made with the work. The contract sum is £1,116 11s.

Avondale Asylum.—The airing-courts were tarred. Plans for twenty additional single rooms were prepared, and a contract for their construction has been let.

Supreme Court, Auckland.—Repairs, &c., have been done during the year.

District Court, Auckland.—The strong-room additions were finished, and plans and estimates for some additions to the building prepared.

Coromandel Courthouse.—A new strong-room has been built.

Paeroa Courthouse. -Two additional rooms have been built, and some alterations were made to give additional accommodation. Gas has been laid on the building. Plans and estimate of further alterations have been prepared.

Hamilton Courthouse.—Some gravelling to the paths has been done, and some necessary

repairs.

Mercer Courthouse.—Some repairs and gravelling have been done.

Te Aroha Courthouse.—Venetian and other blinds have been put up.

Dargaville Courthouse.—A new iron roof has been put on, the outside painted, and repairs done.

Police-station, Auckland (Chancery Lane).—Various repairs to gas and water mains have been

Police-station and Barracks, O'Rorke Street.—The old stone barracks have been pulled down, and a contract let for a new building. Work was started at the end of December last, and good progress has been made, the contract being nearly half finished.

Police-station, Coromandel.—The maintenance period for the new building expired in July last.

An extra room for an office has been built, and some fencing done.

Police-station, Thames.—Plans for a residence were prepared last year; a contract has been let, and the work is about half done.

Police-station, Karangahake.—A lock-up started last year has been finished.

Police-station, Te Aroha.—Two additional rooms have been built; some painting and repairs done, also some fencing.

Te Kuiti Police-station.—A new building has been erected, and the lock-up has been removed

to the back of the new building.

Cambridge Police-station.—Plans have been prepared for a new building, and a tender has been accepted for its erection.

Mercer Police-station.—Additional rooms and a store-house have been built, and some fencing

and repairs done.

Ngaruawahia Police-station.—A report and estimate of the cost of building two additional rooms have been furnished.

Post-office, Auckland—Several rooms have been combined into one large room, forming a room for the telephone multiple-switch room. The inside of the telegraph office has been renovated, a new stairway has been built, and the old telephone room has been made into a mechanicians' All ordinary repairs have been attended to.

Post-office, Mongonui.—A contract to build three additional rooms has been finished, a fence

has been erected, and some repairs done.

Post-office, Otahuhu.—A new brick building has been finished.

Whangarei Post-office. -- A contract to build a new room for a money-order office has been completed.

Waitekauri Post-office.—Two additional living-rooms have been built, and some fencing done. Newton Post-office. -- Some repairs and some painting and paperhanging have been done.

Warkworth Post-office.—Some painting and paperhanging were done, and a new stove fixed. Te Aroha Post-office.—Some repairs have been done; the building of an additional room and painting are now being done.

Raglan Post-office.—Repairs to this building have been done.

Parnell Post-office.—Two suggested sites for the proposed building were reported on.

Coromandel Post-office Residence.—Some repairs and fencing are to be gone on with at once.
Industrial Home, Parnell.—The persistent endeavours made to remedy the bad drainage around the building have so far not been successful, but there seems some hope of a general drainage **sc**heme being undertaken.

Ponsonby Hall.—This building has been let at various times during last winter.

Admiralty House.—The lease to Mr. Taylor is still in force.

Wairangi Bark-shed.—A lean-to to shelter a portable engine for bark-crushing has been built. Whirinaki Native School.—The contract for building the school and residence has been completed during the year.

Utakura.—Ā contract for building a school was completed in November last, and a contract

to build a residence was completed in March.

Manaia. —A contract for combined school and residence was completed in August last, and two additional rooms were added in September.

Rakaumanga.—A contract for a Native school and residence has just been completed. The maintenance period has not yet expired.

Whakatane-Waimana Native School.—A contract for this building has just been completed after considerable difficulty was experienced by the contractor. The maintenance is still going on.

A report, with estimates of necessary repairs and alterations required at Auckland Drillshed, has been furnished to the Defence Department.

#### NEW PLYMOUTH-WANGANUI-NAPIER DISTRICTS.

Mokau.—A one-cell lock-up has been built. A contract is now advertised for the erection of a police-station.

New Plymouth.—It is proposed to add three or more rooms to the police-station.

Inglewood Police-station is to be added to, and painting and repairs done.

Opunake Police-station.—A new residence has been constructed by contract.

Manaia Police-station.—A new residence has been built.

Rahotu.—A contract to erect a building to form a cell and office is about to be advertised.

Normanby.—A contract for additions, repairs, and painting is in progress.

Eltham Police-station.—It is proposed to erect an office as an addition to the residence. Waverley.—A contract for additions, repairs, and painting to the police-station is in hand.

Marton.—A contract is being prepared for repairs and painting.

Feilding.—The proposed new station has not yet been put in hand.

Ashhurst.—A one-cell lock-up has been built.

Dannevirke.—Additions, repairs, and painting at the police-station are being done by contract.

Ormondville.—Small repairs have been done to the police-station.

Waipawa.—A report on the condition of the constables' quarters has been furnished. New buildings are required.

Hastings.—Additions, repairs, and painting to the police-station have been done by contract. Napier Police-station.—A report has been made on trapping and ventilation required for the

Waitara.—A post- and telegraph-office has been built by contract.

Hawera.—The damage caused to the floors of the upper story by dry-rot has been made

Sanson.—The post- and telegraph-office has been repaired and painted, and the drains trapped and ventilated.

Mangaweka.—A contract for the erection of a post- and telegraph-office is now in progress.

Napier Post- and Telegraph-office.—The trapping and ventilation required for the drains has been reported on

Palmerston North Courthouse.—The contract for the erection of this building has been carried out satisfactorily.

Woodville.—A new shed and conveniences have been supplied for the Courthouse.

Wanganui.—A contract for repairs and painting is being prepared.

Napier Courthouse.—The drainage has been finished, and a report with further recommenda-

Eketahuna.—Tenders have been accepted for the erection of a Courthouse.

New Plymouth Departmental Buildings.—A contract has been prepared for some small additions, drainage repairs, and painting, but is held over pending a decision regarding the erection of a clock-tower.

Napier Departmental Buildings.—The drainage has been inspected, and a report and recommendation made.

Pipiriki.—The Native Schoolroom has been scrimmed and papered, and linoleum laid on the

Palmerston North.—Plans were prepared for the transformation of the old public-works buildings into a residence for the Stock Inspector, but have not been approved.

Wanganui.—It is proposed to make additions to the Customhouse, to provide offices for the Lands and Stock Departments.

## Wellington-Marlborough District.

General Post-office.—A new goods- and passenger-elevator has been provided; additional fittings have been supplied; and general repairs have been carried out as required.

Masterton.—Tenders have been invited for the erection of a large building for post- and telegraph-office.

Renwicktown.—A new post- and telegraph-office has been built. Picton.—Post- and telegraph-office has been repaired and painted.

Plans have been prepared for a post-office at Petone.

Parliament Buildings.—A contract for the completion of the new portion of the building is practically finished. Portions of the buildings have been repainted.

Government House has had the drainage system altered to conform to the new sanitary by-laws of the Wellington Corporation. A new conservatory has been built, and additions made to the gardener's cottage. Numerous repairs have been attended to.

The Government Printing Office has been heated throughout with steam radiators, and the drainage system altered to be in accordance with the new sanitary by-laws. A large amount of work was done in connection with alterations in internal arrangements.

New 6-in. water-mains have been laid from the reservoir, Ministerial residence, Tinakori Road West, to supply water for garden purposes at the Parliament Buildings grounds, Government House grounds, and the engine-room, Printing Office.

The telephone exchange has been provided with hot-water heating pipes.

The drainage of Mount View Asylum has been reconstructed to be in accordance with the new sanitary regulations of the city, and additional fire-escape staircases have been constructed in

the female wing.

Porirua Asylum.—A new wing has been added to the female division, capable of accommodating seventy-eight patients; and works are now in progress to give accommodation for fiftyseven patients, in single rooms, for acute cases; also, a block containing a dining-room, sewingroom, and sleeping-accommodation for twenty female patients is in progress. An isolated morgue and dissecting-room has been built.

Central Police-station.—Additional cells have been erected, and a new kitchen-room built for the constables. The drainage of the building has been altered to conform to the new sanitary by-laws, and at the same time the drainage of the adjacent Supreme Court building was altered. The whole of the offices, corridors, barrack-rooms, &c., have been renovated and repainted. The upper floor plan has been remodelled and eight bedrooms provided. A brick stable has been built.

Electric lighting has been supplied to the Terrace Gaol.

A retaining-wall has been built along Banks's Terrace, Mount Cook Gaol.

A stable and shed have been built for the Stock Department.

The whole of the Molesworth Street Ministerial residence has been repainted outside, and all necessary repairs done.

The Museum House has been repainted on the outside, and all necessary repapering and

repairing done.

Ministerial Residence, Tinakori Road East.—This house has been put in a good state of repair. The offices rented for the Labour Bureau were renovated and decorated, &c.; also the office rented for the Official Assignee.

The amount of work done during the year in ordinary repairs and maintenance of the various public buildings, and in supplying additional fittings and conveniences, has been very large.

#### NELSON DISTRICT.

Nelson Departmental Buildings.—An additional strong-room has been built for the Lands and Deeds Department. The whole of the interior of the building has been repainted. The slates on the roof are now, however, giving considerable trouble, as the roof-timbers are rotting and unable to hold the nails. The stables, outbuildings, and fences have been repainted. The Provincial Hall is now being renovated under petty contract.

Motueka.—A new iron roof has been put on the Courthouse, and the building repaired and Some new fencing has been erected, also new outbuildings, for the post- and telegraphpainted.

Takaka.—A new porch has been built to the Courthouse, and outbuildings put up. The Courthouse has also been repaired and painted. An acre of land has been bought for the site of a new post- and telegraph-office, and plans for the new building are in course of preparation.

Port Nelson.—Some additional land acquired has been fenced with a 6 ft. corrugated-iron

Nelson Customhouse.—The slate roof has been put in a thorough state of repair, a new lobby has been built, the exterior of the building has been repainted, and some renovating of the interior

Nelson Post- and Telegraph-office.—The buildings have been put in thorough repair, a new floor has been laid in the public room, and the exterior of the building has been repainted.

Wakapuaka Cable-station.—Fairly good progress has been made with the contract for the

erection of new offices.

Nelson Asylum.—The new two-storied auxiliary asylum in brick has been finished. alteration to the laundry to enable it to be fitted up with the newest appliances is in progress. The main building has been furnished throughout with electric alarums, and it has been connected by telephone with the new building and the Superintendent's residence. A water-service has been laid to the Superintendent's residence.

A considerable amount of work has been done to the various buildings in the district in minor repairs, and, considering the age of many of the buildings, much work of this kind may be

expected in the future.

#### WESTLAND DISTRICTS.

Westport.—The police-station has been repainted and repaired. There have been some minor repairs done to the Courthouse, and it has been repainted.

Denniston.—The police-station has been repaired and painted.

Minor repairs have been done to the Courthouse and lock-up, Lyell, and to the residence of the Clerk of Court, Westport.

Greymouth Courthouse.—The piles and roof have been renewed. The painting of the interior

and exterior of the building will be finished shortly.

Greymouth Police-station.—The old quarters have been taken down and a store, shed, and outbuildings have been erected on their site. The station-building has been repaired and painted. The sergeant's house has been raised above flood-level and repaired and painted, and a new range fitted in the constable's house.

Hokitika Post- and Telegraph-office.—The repairs and painting begun last year have been finished, two new grates have been put in, and work in connection with additional safes is in hand.

Hokitika Asylum.—Supplies of materials were furnished to Asylum for work to be done by the

Hokitika Gaol.—Material for repairs has been supplied for work to be done by the prisoners, and the building is now getting into a fair state of repair.

Stafford Police-quarters.—The repairs and painting have been finished.

Stafford Courthouse.—Repairs and painting in hand last year have been finished.

Goldsborough Courthouse.—The repairs and painting in hand last year have been finished.

Ahaura Post and Telegraph.—Some repairs and painting have been done.

Okarito. — General repairs of an extensive character were carried out in the Courthouse, policestation, constable's quarters, stables, lock-up, fencing, &c.

Ross.—Extensive repairs were done during the year to the Courthouse, police-station, stables,

lock-up, and constable's quarters.

Greenstone.—The Warden's Courthouse was put in a state of repair, and made safe.

#### CANTERBURY DISTRICT.

#### Courthouses.

Ashburton.—The roof of the Courthouse has been repaired, and some improvements made in

Christchurch Supreme Court.—The usual necessary repairs have been carried out; asphalt footpaths have been laid, new shelving put up, water laid on to the lavatory, and new snowboards fixed to the gutters. A new cottage for the custodian is being built.

Christchurch Stipendiary Magistrate's Court.—The roof has been kept in a state of repair.

The offices and strong-room have been ventilated. More shelving has been provided.

Leeston.—A new Courthouse has been built and furnished.

Lyttelton.—The Courtroom and offices have been repaired and renovated, more seating accom-

modation provided, and the floors laid with linoleum.

Timaru Courthouse.—Repairs to the roof and gutters have been done, new door-fastenings and sash-cords fixed, and a new gate has been provided.

#### Departmental Buildings.

Christchurch Provincial Buildings.—Many repairs have been required to keep these buildings in an efficient state. Alterations have been made in various rooms to meet the wants of the Lands and Survey, Labour, and Stock Departments. Sundry fittings have also been provided.

Christchurch.—The District Survey Office has been thoroughly repaired and renovated and

painted.

A new building has been put up for offices for the Defence Department, and the necessary outbuildings in the drillshed grounds.

#### Post and Telegraph Offices.

Annat.—The building occupied by the telegraph lineman has been renovated and painted.

Ashburton.—The mail-room has been enlarged; a verandah built along the whole front of the building. A substantial galvanised-iron fence, 6 ft. high, has been erected round the grounds. The Postmaster's private rooms have been renovated, and the exterior of the whole building painted.

Bealey.—The mail-room has been enlarged.

Christchurch.—The stone entrance steps have been re-dressed, a bicycle-shed has been built, and many small repairs done. The asphalt in the cart-road and yards has been repaired.

Geraldine.—The Postmaster's residence has been painted.

Lyttelton.—The stair-steps have been re-covered, and minor repairs done.

Timaru.—A new picket-fence has been erected round the section. The chimneys in the lower portion of the building have been heightened. A galvanised-iron fence has been built round the caretaker's yard, and round the out-buildings. All the window-sashes have been re-hung and overhauled, as found necessary, and some repairs done.

## Police-stations.

Addington.—The roof of the building has been repaired, and some internal repairs, &c., done.

Ashburton.—A new kitchen has been built to the sergeant's house.

Bingsland.—The lock-up has been removed to the new station and repainted; an office has been put up, and open drains have been formed. The ground-surface in front has been raised and the footpath asphalted.

Christchurch.—Necessary repairs have been done to the buildings. The roof of the Inspector's house has been partly re-covered with iron. Some new floors have been laid and kitchen requisites provided. The rooms used as offices have been renovated and fittings supplied. Alterations have been made in the room for the Inspector of Weights and Measures, and four temporary cells are being built.

Coalgate.—Repairs have been done to the roofs of the constable's house and the lock-up.

Fairlie Creek.—Tenders have been received for building an additional room, renovating the

house, roofing the stable, and sundry repairs.

Kaiapoi.—An office, an additional living-room, and a scullery have been added to the constable's house, which has been renovated and additional fittings provided. The exterior of the building has been painted, the fencing repaired, footpath asphalted, and the downpipes connected to the main drain.

Kaikoura.—The stable and lock-up have been repaired and painted. A contract has been let to build a new house, and for alterations and renovation of the old portion of the buildings.

101 D.--1.

Lyttelton.—The fencing has been repaired and painted. The lock-up has been repaired and painted. The offices, bathroom, kitchen, and bedrooms have been renovated. The exterior woodwork has been painted.

Phillipstown.—Some minor repairs have been done to the constable's house and to the

lock-up.

Southbridge.—An office and additional room and a scullery have been added to the constable's house, which has also been repaired and painted. An out-building, with washhouse, has been

Temuka.—Two rooms have been added to the sergeant's house, which has been put in repair and painted. A proper system of drainage has been provided, and the down-pipes from the sergeant's and constables' houses connected to it. The fencing has been extended and improved.

Timaru.—Various minor repairs have been done. The police-station will benefit by the

drainage-works done in the adjacent grounds of the courthouse.

Waimate.—Extensive additions, alterations, and renovations have been done to the constable's

quarters during the year.

Burnham Industrial School.—A high-pressure boiler and range have been fitted in the main building. Two new windows have been put in the schoolroom. The windmill well and the schoolmaster's well have been cleaned out, and the pumps repaired.

Sunnyside Lunatic Asylum.—The electric-alarm system has been completed, sixty keys have

been fitted to the gas-taps, and the baker's ovens repaired.

Quail Island Quarantine Station.—A large retaining-wall has been built at the back of the hospital and outbuildings, the dam enlarged, and general repairs to the roads and buildings have been done, all chiefly by prison labour.

#### 'OTAGO AND SOUTHLAND DISTRICTS.

#### Courthouses

Macraes.—A contract for the erection of a new Courthouse was completed during the year. Clyde.—A contract for additions to the Courthouse has been completed, and also a petty contract for renovations.

Dunedin.-The renovation of the ushers' quarters at the Supreme Court was done by petty contract.

Cromwell.—A petty contract for renovations was carried out during the year.

Alexandra.—A petty contract for renovating the Courthouse was done during the year. Balclutha.—Repairs and renovation of the Courthouse were done by petty contract.

#### Post and Telegraph Offices.

Dunedin.—The Chief Post-office had new posting-boxes put in; alterations were done to the money-order office; also other alterations and some renovations were done.

Arrowtown.—A contract for additions to the post-office has been completed.

Queenstown.—The renovation and painting of the post-office was done by petty contract.

Owaka Post-office.—A contract for removing, re-erecting, and renovating this building has been carried out.

Palmerston South.—A petty contract for repairs and renovation of the post-office has been completed.

Port Chalmers.—The repairing and renovating of the post-office has been done by petty con-

Mataura.—Additions and renovations to the Postmaster's quarters have been done by petty contract.

Miller's Flat.—A contract for the erection of a new post-office has been completed. Milton.—Repairs and renovations to the post-office have been done by petty contract. Mosgiel.—A contract for the erection of a new post- and telegraph-office is well advanced.

#### Police-stations.

Dunedin.—The work of forming dormitories and store-room in the attic of the central policestation was completed in April last, and a petty contract for certain renovations was completed in February.

Clyde.—Repairs to the sergeant's quarters have been done by petty contract. A contract for

the erection of a gaoler's residence was completed in March last.

Mataura.—A petty contract for renovating the police-quarters was completed in January last. Caversham.—The police-buildings were repaired and renovated by day-labour. The work was completed in March last.

Cromwell.—The police-station has been put in repair by petty contract.

Otautau. -- A petty contract for repairs and renovations to the police-station was completed in

Bluff.—A petty contract for repairs and renovations to the police-station was completed in

Alexandra.—The police-station was repaired and renovated by petty contract.

Caversham Industrial School.—The main building (girls' portion) with the necessary storerooms, bathrooms, lavatories, &c., has been rebuilt in brick. It was completed in August last.
The erection of a dining-room and kitchen was begun in April, and the brickwork is now completed and ready to receive the roof. An office has been erected for the manager.

Caversham Barracks.—A new fence has been erected on the new boundary in front of the

building.

15—D. 1.

Seacliff Asylum.—Contracts have been let for the supply of timber and joinery required for the patients' cottage and for the auxiliary building.

Quarantine Buildings, Port Chalmers.—Some repairs have been done and the buildings have

been repainted.

Stock Inspector's House, Lawrence.—A contract for additions and repairs to this building was

completed in March.

In addition to the works detailed above a considerable amount of work has been done in general repairs; also, a number of fittings have been supplied to various departments.

#### MARINE.

Pannure Wharf.—The Pannure Wharf contract was completed in August; this is a ligh structure, intended principally for landing passengers from excursion-steamers, &c.

A contract for seven buoys, let to Messrs. Massey Bros., Auckland, is in progress.

East Cape Lighthouse. A contract for the ironwork for the tower has been completed by Mr. C. Judd, Thames. A considerable amount of material has been landed for the construction of the lighthouse and buildings, some of the houses required for the permanent staff have been built, a tramway has been laid, and excavations for the foundations for the tower are in progress.

At Sticking-point Reclamation, Lyttelton Harbour, a large amount of rock-excavation and

levelling has been done by prison-labour.

A contract for repairs to the Quarantine Wharf, Port Chalmers, has been completed.

Plans for the new lighthouse on Somes Island have been prepared.

Some repairs to Hokitika Wharf have been carried out, to make good damages caused by

#### HARBOUR DEFENCES, ETC.

A considerable amount of work in connection with the mine-fields has been done, sheds removed and re-erected, additional buildings put up, a tramway laid, testing-rooms removed and re-erected, an office provided for the clerk, a wharf 300 ft. long with a tee 60 ft. by 30 ft. built;

also a solid approach to the wharf 100 ft. long, and other works done.

At other forts: A blacksmith's shop has been built, and a small parracks. The walls of an observing station have been lined, and a survey made for an additional gun-emplacement. Officers' quarters have been renovated and the drainage improved. Some works in connection with search-light emplacements and plant have been finished, others well advanced. Alterations to the walls of one of the forts are in hand. An additional big-gun emplacement is nearly finished. A resurvey of the mine-field has been made.

#### Wellington.

The slipway and shed at Shelly Bay were finished. The electric plant and emplacements have been finished. The Mahanga Bay Wharf has been strengthened by ironbark piles, and a number of minor works have been done, for the most part by prison-labour. Some alterations and improvements to the Gardens Battery have been carried out.

#### LYTTELTON.

The roof of the residence of one of the magazine-keepers has been repaired. An engine and boiler for electric light are in course of erection. A new range-finder station has been built. Extensive additions have been made to the Armed Constabulary barracks to provide stores and workshop, the roof put in a good state of repair, and the whole building painted; a new parade-ground has been formed, and the drainage completed. An observing-station and covered way have been built and a barbed-wire fence erected at one of the forts, and repairs to the drains, walls, and buildings carried out.

DUNEDIN.

An iron fence has been built in front of one of the batteries and a fighting-station built. At another fort a magazine and a new gun emplacement have been built. Pipes have been laid for telephone-wires between the guns, &c., of some of the batteries.

#### STORES AND SERVICES.

Tenders were invited for the supply and delivery of general ironmongery, builders' and furnishing ironmongery, and other stores for the Public Works and other departments for the year, Contracts were also entered into for the supply of coal, firewood, &c., in the several districts, and in Wellington the usual contracts were let for cartage, window-cleaning, chimney-sweeping, and I have, &c.,
WILLIAM H. HALES, the removal of rubbish, &c.

The Hon. the Minister for Public Works.

Engineer-in-Chief.

## Enclosure to Appendix E.

TABLE of Lengths of Government Lines Authorised, Constructed, and Surveyed up to 31st March, 1899. NORTH ISLAND.

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^{*}In this case the date given is the date on which the railway was taken over by the Government.

*Reconnaisance only.

This comprises 12m. 70ch. of railway constructed by Government, and 30m. 60ch. of line constructed by private company under the District Railways Act and afterwards purchased by the Government.

*Note.—Taonui and Lichfield Branches not mentioned above, as the rails have been taken up.

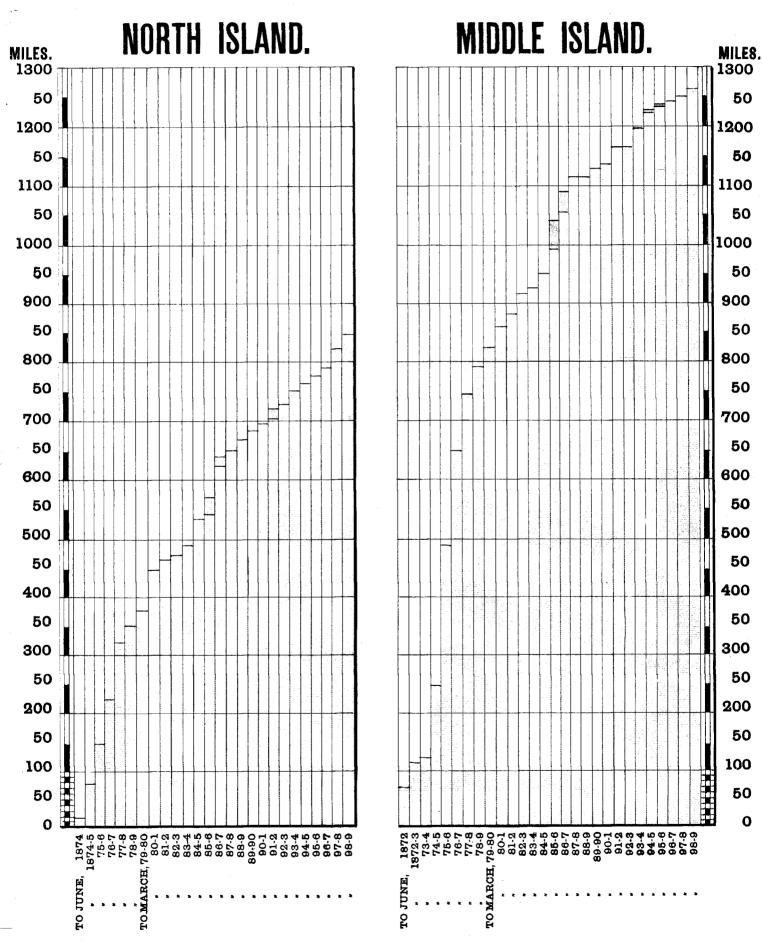
## TABLE of LENOTHS of GOVERNMENT LINES AUTHORISED, CONSTRUCTED, and SURVEYED up to 31st March, 1899-continued.

1 2 3 4 0 6 7 8 9 9 10 11 12 18 14 15 16 17 18 19 20 21 22 23 24 25 ch 27 88 29 30 31 32 38 Nelson Belgrove.  Roundell  Greymouth- Greymouth- Funner: 7 32 18 14 15 16 17 18 19 20 21 22 23 24 25 ch 27 8 29 30 31 32 38 14 15 10 10 10 10 10 10 10 10 10 10 10 10 10	
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Mokihinu Colliery 3 59 Mokihinu: to coal 3 69 0 21 4 10	24 37 24 37
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Temuka-Timaru	
Rangiora-Oxford   21 76 Rangiora-Cust   11 77	21 76
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Akaroa Flat 2 5 24 51 16 Mar., 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886	22 46
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Sury to Fairlie	36 5
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Abbetsford Clutha 46 86 59 18 306 2	-246 69
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## Number of Miles open

of

## Government Lines.

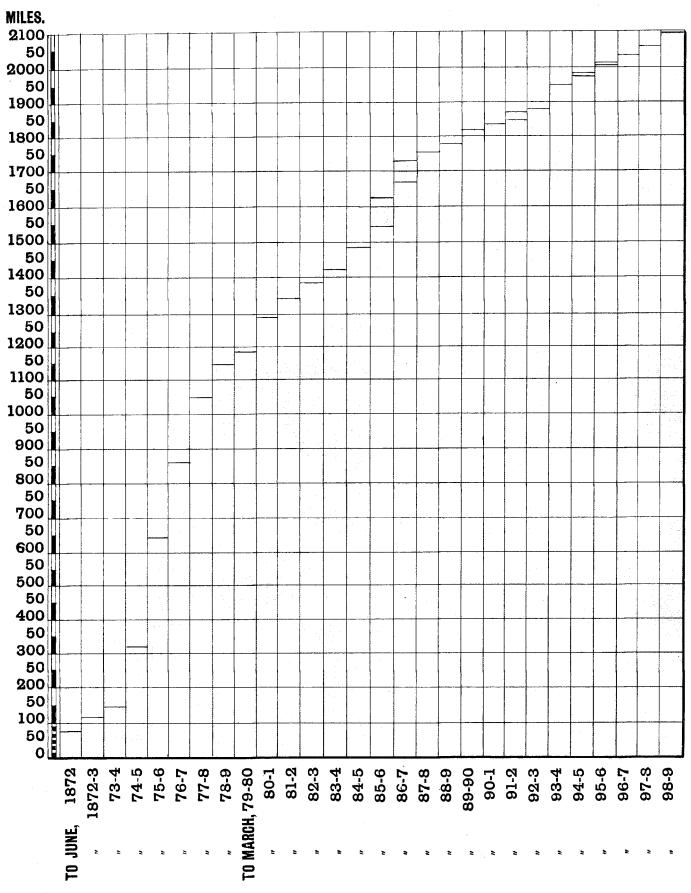


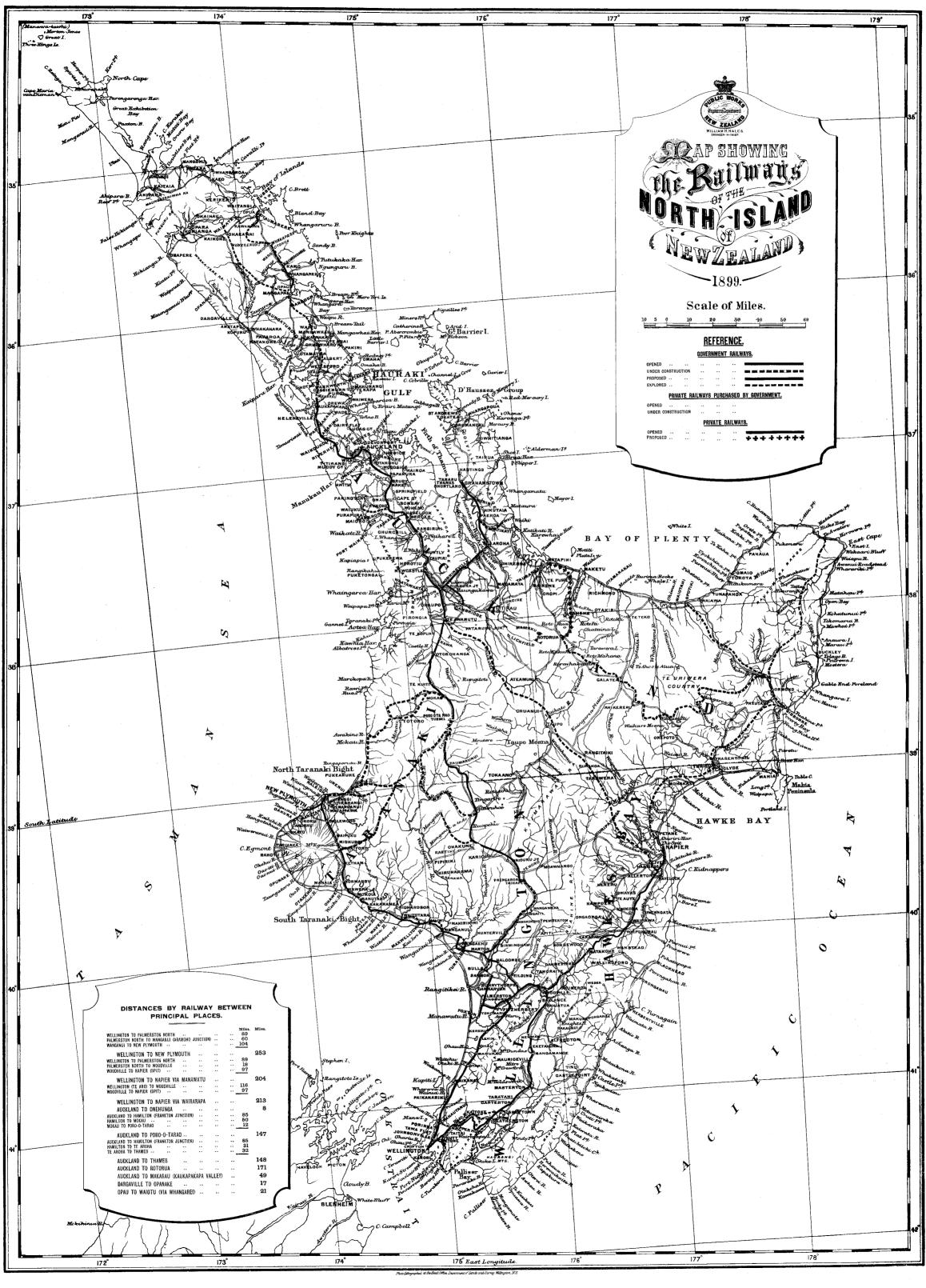
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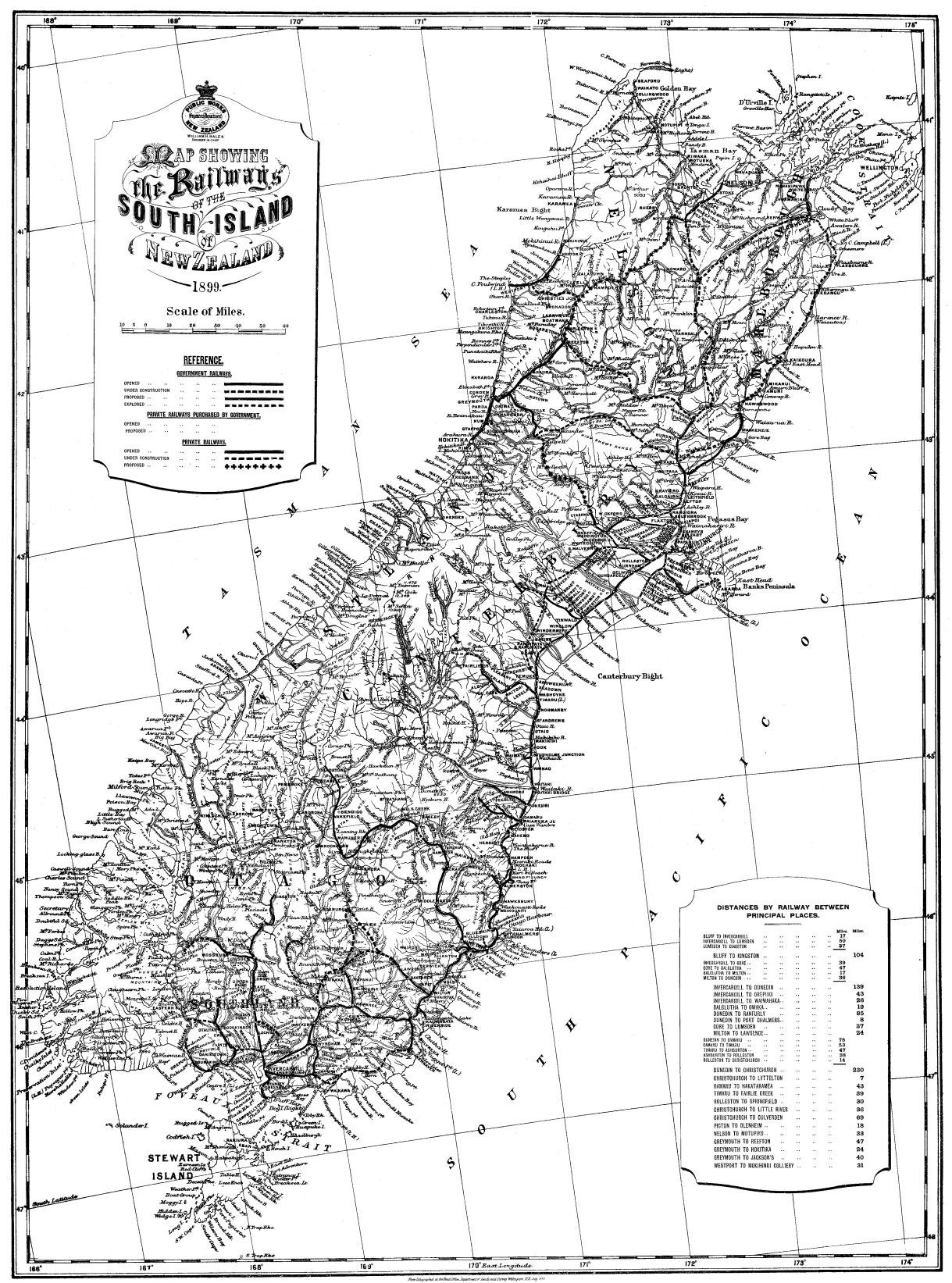
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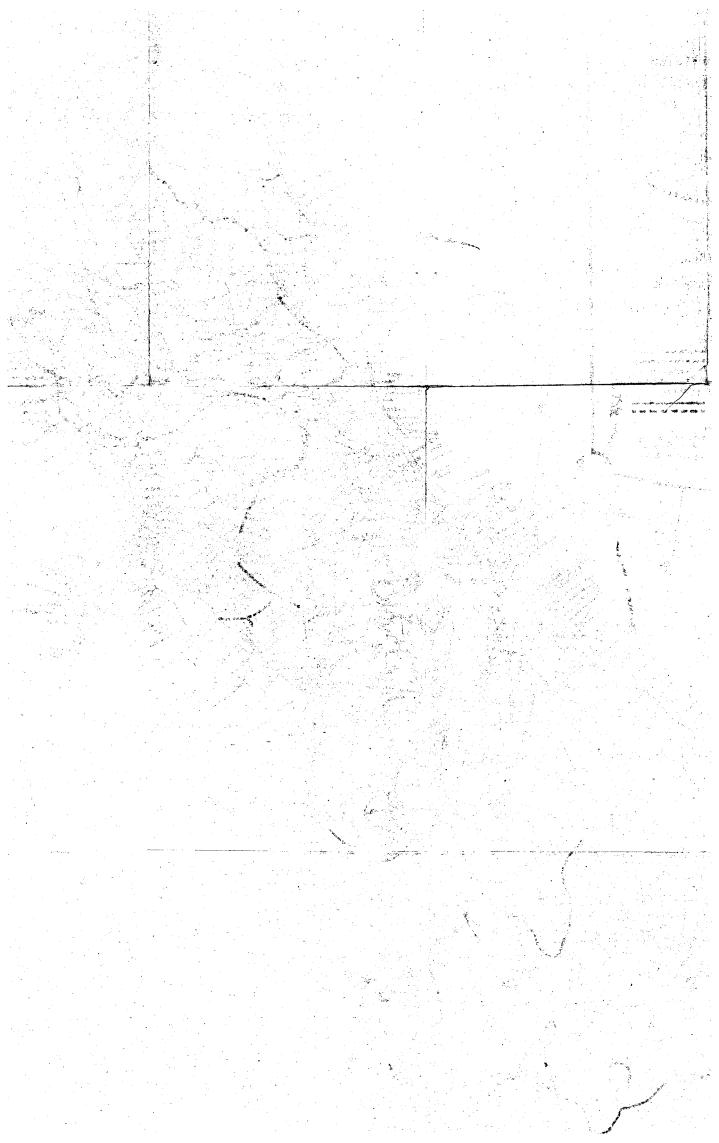
## North and Middle Islands combined.











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#### APPENDIX F.

#### NORTH ISLAND MAIN TRUNK RAILWAY.

REPORT ON THE PROPOSED NGAIRE, WAITARA, AND AWAKINO ROUTES BY MR. R. W. HOLMES, M.INST.C.E.

Mr. R. W. Holmes to the Engineer-in-Chief, Wellington.

Sir,—
Public Works Office, Wellington, 31st July, 1899.
I have the honour to forward herewith my report on the Taranaki-Auckland Railway, together with the drawings as enumerated below:—

Enclosures herewith.

## 2. Appendix. 6. Plan 3. Report by Mr. A. C. Koch.

3. Report by Mr. A. C. Koch. 4. Map of Taranaki, showing routes.

1. Report.

Plans and report

Respective merits

Best route

5. Longitudinal sections of routes.6. Plan and sections part Awakino route, by Mr. A. C. Koch.

				Inde	r to 1	Report, &c.					
					Page						Page
Extent of each route					105	Roadworks					113
General description of	location	of each	route		106	Appendix					113
Surveys					106	Central line—					
Grades and curves					107	Distances					113
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Distances			• •		-12	1, 10, 100, 10 10 10 10	• •	• •	• •	• •	TI TO

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I have, &c.,

Awakino route

The Engineer-in-Chief, Wellington.

R. W. Holmes, Resident Engineer.

Awakino route: Report by Mr. A. C. Koch

Wellington, 31st July, 1899.

I have the honour to report that, in accordance with instructions received during May, an inspection and exploration of the country along the Ngaire, Awakino, and part of the Waitara routes for a line of railway to connect Taranaki with the Central line between Wellington and Auckland have been made, and the following remarks thereon are submitted for your information:—

#### EXTENT OF EACH ROUTE.

#### Ngaire Route.

This route connects with the opened line between Wanganui and New Plymouth near Eltham Station, and with the Auckland-Wellington Central line at Kawakawa, in the Ongaruhe Valley.

		$\mathbf{M}.$	ch.	
Distance between Eltham and Kawakawa Junctions	 •••	103	5	
Distance from Wellington to Auckland via this route	 	477	5	
Distance from New Plymouth to Auckland vid this route	 *	295	75	

#### Waitara Route.

This route connects with the Wanganui-New Plymouth opened line in the vicinity of Waitara Station, on the Sentry Hill-Waitara branch line, and with the Ngaire route at 54 m. 21 ch., in the Waingarara Valley.

		м.	ch.	
Distance between Waitara and Waingarara Junctions	 •	46	75	
Distance between Waitara and Kawakawa Junctions	 	95	60	
Distance from Wellington to Auckland via this route	 •••	499	52	
Distance from New Plymouth to Auckland via this route	 	264	22	
17_D 1				

#### Awakino Route.

This route connects with the Wanganui-New Plymouth opened line at the same point near Waitara Station as the Waitara route, the routes following a common line to 21 m. 70 ch., in the Mimi Valley; it connects with the Auckland-Wellington central line at Mokau Station, in the upper part of the Mokau Valley.

	М.	ch.
Distance between Waitara and Mokau Junctions	 94	0
Distance between Wellington and Auckland via this route	 474	27
Distance from New Plymouth to Auckland via this route	 238	77

#### GENERAL DESCRIPTION OF LOCATION OF EACH ROUTE.

#### Ngaire Route.

The line on leaving Eltham Junction runs nearly straight to near the confluence of the Toko and Patea Rivers, passing over en route a corner of the dry Ngaire Swamp and the Patea River; thence it passes into the Makuri Valley, which it follows up to 16½ miles; a tunnel then carries the line into the Mangaotuku Valley, which is followed up to 30½ miles; thence by a tunnel it passes into the Makahu Valley. The line proceeds down this valley for three miles and a half to the confluence of the Pohokura Stream, which is followed up to 37 miles; a tunnel then carries line through the divide of the Patea-Wanganui watersheds into the Mangare Valley, which is followed down to the Wangamomona Valley. It proceeds up this valley to the head; thence it passes the head of the Mauku Valley, and proceeds down and up tributaries of the Raekohua Stream; thence it passes into and down the Waingarara Valley to the Tangarakau Gorge, up which it proceeds to the Paparata Stream; thence up this stream to the saddle in the Waiaraia Range. It then descends into the Heao Valley, crosses it, and enters the Paorae Valley, a tributary, which is followed to its source; thence it passes down the Huhatahi Creek to the Mangaroa River, which is followed up to 78 miles, where it passes through a gap into the Ohura Valley. The Ohura Valley is then followed up to 100½ miles, where a low saddle admits of the line passing into the Ongaruhe Valley to the Kawakawa Junction at 103 m. 5 ch.

#### Waitara Route.

The line on leaving Waitara keeps within about a mile and a quarter of the sea-coast as far as the Mimi Valley, crossing the Waitara, Waiau, Onairo, and Urenui Rivers; it then follows up the Mimi Valley to the Uruti Stream, which is in turn followed up to the tunnel which carries the line into the Moki Valley, which is followed down to the Waitara Valley; thence the line follows up the Waitara Valley to  $32\frac{1}{2}$  miles, where it enters a small valley, which is followed up to the head, where a tunnel carries the line into the Makarakia Valley, which is followed up to  $37\frac{3}{4}$  miles, where another tunnel carries the line back into the Waitara Valley, down which it proceeds to  $43\frac{1}{3}$  miles, where it passes over a low saddle and down the Waingarara Valley to the point of junction with the Ngaire route.

A saving in the cost and length of this route may possibly be effected by following up the Waitara River all the way from the Moki Stream to the Waingarara Saddle, instead of proceeding.

via the Makarakia Valley.

#### Awakino Route.

This route leaves the Waitara route at 21 m. 70 ch., in the Mimi Valley. It follows up the Mimi Valley to a little beyond Mount Messenger, where a tunnel carries line through the ridge into the Mangaongaonga Valley, which is followed down to the Tongaporutu River; thence to the sea-coast at 35 miles. From this point to Awakino Heads at  $46\frac{1}{2}$  miles the line follows the coast within half a mile, crossing the Tongaporutu, Mohakatino, and Mokau Rivers; it then follows up the Awakino River to 64 miles, a little above Mahoenui, where it passes into the Mokau Valley at Totoro by following down the Waipari Creek; thence it proceeds to the Mokau-iti Valley, either  $vi\acute{a}$  the Waikohatu Valley and a low-level bridge over the Mokau River, or  $vi\acute{a}$  the Teoteo Native Village and a high-level bridge over the Mokau River. From the Mokau-iti Valley the line passes back into the Mokau Valley, which is followed up to the Mokau Station, where it joins the central line.

This is apparently the best route for this railway in this direction, as nearly as can be determined by a reconnaissance survey. There are several alternative lines along portions of the route, but whether their merits would justify their adoption can only be determined by trial-line surveys; for instance, by carrying the line along the coast between the Mimi and Tongaporutu Rivers—a perfectly feasible route—a considerable length of line can be saved, but the cost, and avoidance of revenue-producing country up the Mimi Valley, will most likely condemn it; likewise between the Mokau and Awakino Rivers, near the sea, there are three possible routes, while between Totoro and Wairere Falls there are two good routes, indicated by red, full, and dotted lines, and an indifferent route, indicated by green line; there is also an alternative route between Mahoenui at 62 miles, and the Mokau Valley at 86 miles. The two latter routes are difficult of access from the country to the south.

## SURVEYS.

#### Ngaire Route.

This route has been surveyed by means of a trial line, with sufficient detail and accuracy to show exactly the maximum extent of engineering-works to construct it, and their cost within very narrow limits.

#### Waitara Route.

This route has also been surveyed in a similar manner.

#### Awakino Route.

From 21 m. 70 ch., where it leaves the Waitara route, to Mokau Station, on the central line, only exploration-work has been done.

#### GRADES AND CURVES.

#### Ngaire Route.

The steepest grade is 1 in 50, the sharpest curve  $7\frac{1}{2}$  chains (495 ft.) radius, which are the limits now adopted for main lines in New Zealand.

#### Waitara Route.

Grades and curves similar to Ngaire route.

#### Awakino Route.

Maximum grade to Mahoenui (62 miles) 1 in 70, possibly 1 in 80; thence 1 in 50 or 1 in 70, according to route adopted. Maximum curvature, 7½ chains radius.

#### Engineering-works.

#### Ngaire Route.

The following shows in a tabulated form the comparative degrees of extent and cost of works required to construct the line, with all equipment:—

From ,	То	Cost under £6,000 per Mile.	Cost under £8,000 per Mile.	Cost under £11,000 per Mile.	Cost under £18,000 per Mile.	Cost under £24,000 per Mile.	Cost under £30,000 per Mile.
M. ch.	M. ch.	M. ch.	M. ch.	M. ch.	M. ch.	M. cb.	M. ch.
0 0	5 26		5 25				
5 26	10 0		4 48				
10 0	16 0	5 74		•••		,	
16 0	22 77			6 76			
22 77	29 77	7 0					
29 77	31 0			1 3			
31 0	37 0	6 0	•••		•••		
37 0	38 73		•••	*	1 73		•••
38 73	47 73	ļ ,	9 0				
47 73	49 5				•••	1 10	
49 5	52 48		3 40				
52 48	$55 \ 32$			2~62			•••
55 32	60 59	İ		5 24			•••
60 59	64 73				3 77		•••
64 73	68 73				374		
68 73	75 63			6 66	•••		•••
75 63	83 56	7 73					•••
83 56	88 56		5 0		••		•••
88 56	93 54			4 78			•••
93 54	98 56		5 2	_ , ,			• • • •
98 56	103 56	•••	•••	'5 O	•••	•••	
		26 67	32 35	32 69	9 64	1 10	

Numerous watershed-divides are crossed along the route, which, owing to the general character of the country, consist of narrow ridges. Advantage is taken of this feature to provide for tunnelling through them, and so avoid the more expensive grading on the hillsides, and the useless rise and fall thereby occasioned. This accounts for the apparently large number (thirty-one, with an aggregate length of  $187\frac{2}{3}$  chains) of tunnels. There are no viaducts, and only two bridges of any magnitude—viz., those over the Tangarakau River, which are estimated to cost an average of £7,400 each.

Briefly the works of construction may be divided into three zones, thus: First zone, moderate works—From Eltham at 0 m. 0 ch. to head of Wangamomona Valley at 47 m. 73 ch., average cost per mile = £6,992. Second zone, heavy works—From 47 m. 73 ch. to Mangaroa Valley at 75 m. 63 ch., average cost per mile = £11,840. Third zone, moderate works—From 75 m. 63 ch. to Kawakawa Junction, average cost per mile = £7,757.

#### Waitara Route.

The following shows in a tabulated form the comparative degrees of extent and cost of works required to construct the line, with all equipment:—

From	То	Cost under £6,000 per Mile.	Cost under £8,000 per Mile.	Cost under £11,000 per Mile.	Cost under £18,000 per Mile.	Cost under £24,000 per Mile.	Cost under £30,000 per Mile.
M. ch. 0 0 8 0 16 0 23 0 29 0 35 0 42 0 46 75 54 42 55 32 60 59 64 73 68 73 75 63 83 56 88 56 93 54 98 56	M. ch. 8 0 16 0 23 0 29 0 35 0 42 0 46 75  55 32 60 59 64 73 68 73 75 63 83 56 83 56 93 54 98 56 103 56	M. ch 7 0 7 73 14 73	M. ch. 8 0 8 0	M. oh 7 0 4 75 0 70 5 24 6 66 4 78 5 0	M. 'ch 6 0 3 77 3 74	M. ch.	M. ch 6 0

This route may also be divided into three zones as regards works of construction, viz.: First zone, moderate works—From Waitara at 0 m. 0 ch. to Uruti at 23 m. 0 ch., average cost per mile = £6,543. Second zone, heavy works—From 23 m. 0 ch. to Mangaroa Valley at 75 m. 63 ch., average cost per mile = £14,321. Third zone, moderate works—From 75 m. 63 ch. to Kawakawa Junction, average cost per mile = £7,757.

The remarks re tunnels under Ngaire route apply equally to this route, there being thirty-eight, with a total length of 318½ chains. There are four viaducts, averaging £8,300 each.

Awakino Route.

The following table shows in a tabulated form the comparative degrees of extent and cost of works required to construct the line, with all equipment:-

From	То	Cost under £6,000 per Mile.	Cost under £8,000 per Mile.	Cost under £11,000 per Mile.	Cost under £18,000 per Mile.	Cost under £24,000 per Mile.	Cost unde £30,000 per Mile.
M. ch. 0 0 8 0 16 0 27 0 28 0 52 0 57 0 62 0 65 0 76 0 90 0	M. ch. 8 0 16 0 27 0 28 0 52 0 57 0 62 0 65 0 76 0 90 0 94 0	M. ch 11 0 5 0 3 0 14 0 4 0	M. ch. 8 0  	M. ch.  8 0 24 0 11 0	M. ch 5 0	M. ch 1 0	M. ch.
		37 0	8 0	43 0	5 0	1 0	* • •

This route cannot be divided into zones for comparing extent of construction-works, as the works on the whole are moderate, with only short lengths of heavy work unevenly distributed throughout.

From Waitara to 21 m. 70 ch., in the Mimi Valley, the line coincides with the Waitara route, the construction-works being moderate. The crossings of the Waiau, Onairo, and Urenui Rivers

cause a good deal of rise and fall.

From 21 m. 70 ch. the line continues up the bottom of the Mimi Valley, with easy formationwork to 27 miles where it passes by means of a tunnel about 40 chains in length through the ridge near Mount Messenger into the Mangaongaonga Creek Valley, a tributary of the Tongaporutu River. From this point to 52 miles, in the Awakino Valley, the formation-works will be moderate and similar in character to the part up to 16 miles. The only difficulty will be the bridging of the Mokau River, which is complicated through having to make provision for the passage of shipping. If the line proceeds up Mokau Valley for a short distance, thence by a tunnel through ridge into the Awakino Valley, the bridge would most probably have to be a low-

level one with an opening span; but if the line was run ralong the coast to Awakino Heads the bridge would be a high-level one, crossing the river at the mouth nearly on the line of the telegraph-wire. The necessary divergence up-river to obtain a low-level bridge would be very awkward and expensive to construct owing to the cliffs on each side of valley. The top of cliff at south side of river at the heads is a little over 90 ft. above high-water mark. The last sailing-vessel to enter the river (a scow) had masts reaching a height of 95 ft. above water. An opening span at the heads would not be admissible, as presenting at a critical point an obstruction to the free navigation of the entrance to the port.

The alternative line between the Mimi and Tongaporutu Rivers would continue along the coast instead of turning inland up the Mimi Valley. The great obstacles in the way of this piece of line are the White Cliffs, and the crossings of the Mimi, Wai-iti, and Tongaporutu Rivers at right angles to their courses. The White Cliffs rise abruptly from the sea-beach for some 800 ft.; they consist entirely of papa rock. Two tunnels, one 80 chains and one 27 chains in length, would be

required, and about 50 chains of the line would be on steep papa-rock sideling.

From 52 miles to 57 miles the Awakino Valley becomes very narrow and crooked, with cliffs along the sides and high spurs running out into the bends. The construction-works will therefore be heavy. Several river-crossings and tunnels may be required to keep curvature within the limits.

At 57 miles the valley opens out so that the formation-works will be much easier up to 65 miles, where the tunnel is that carries the line into the Waipari Creek Valley. This tunnel

will be about 13 chains long.

The line follows down the Waipari Creek to the Mokau River, the construction-works being moderate. The line will either descend about 200 ft. to a low-level crossing of the Mokau River, and then grade up the Waikohatu Creek to a saddle leading into the Mckau-iti Valley, or cross the Mokau River by a high-level bridge at the mouth of the Waipari Creek, and proceed up the Mokau and Mokau-iti Valleys. The best route can only be determined by trial survey, as, whichever way the line is taken between Awakino Valley at 65 miles and the Mokau Valley at 76 miles, near Wairere Falls, the formation-works will, on the whole, be heavy. The latter of the above routes is the best, as avoiding most of the fall to the Mokau River, thus allowing very much better grades. There are two other routes—one viā the north bank of the Mokau River from the Waipari Creek, the other viā the Mangaotaki Valley, the latter being, I am convinced, impracticable, owing to the precipitous nature of the country and the great rise to saddle at Paemako.

Between Mokau-iti River at 74 miles and Mokau River at 76 miles there will be a tunnel

about 20 chains in length to avoid grading over top of saddle.

From 76 miles to Mokau Station, at 94 miles, the end of this route, the line follows up the Mokau River, with occasional divergences to save distance. The formation-works will be easy, except for a mile and a half between 88 miles and 90 miles, where a waterfall in the river occurs, the sudden drop necessitating a short grade to carry line up.

From 0 m. 0 ch. (Waitara) to 57 miles, in the Awakino Valley, the height of line above sealevel will vary from 10 ft. to 150 ft.; thence the highest point will be at the junction with central line, which is 690 ft. above sea-level, the greatest rise in any one place on a steep grade being

300 ft., and this may be reduced to half the amount.

The only advantage gained by a low-level crossing of the Mokau River at Totoro is to make the line more accessible from the good country to the south. On the whole, I must say that from an engineering point of view this route is an excellent one, and by far the easiest to construct.

#### ESTIMATED COSTS.

#### Ngaire Route.

Total cost, £865,997; length, 103 miles 5 chains. Average cost per mile, £8,403.

#### Waitara Route.

Total cost, £1,008,921; length, 95 miles 59 chains. Average cost per mile, £10,538.

#### Awakino Route.

Total cost, £751,400; length, 94 miles. Average cost per mile, £7,994.

New Zealand Railways opened for Traffic to 31st March, 1898.

Total cost, £15,994,000; length, 2,061 miles. Average cost per mile, £7,750.

Tables are attached giving the estimated cost with some detail.

#### COUNTRY.

#### Ngaire Route.

The country along this route, with the exception of the Tangarakau Gorge and the upper part of the Ohura Valley, is all good pastoral land, besides being suitable for agricultural purposes for the first ten miles from Eltham, and in numerous other smaller areas along the route.

Although the Tangarakau Gorge is almost useless immediately adjacent to the line, there are

considerable areas of fair country within a short distance.

The country as far as 8 miles, near Toko, is situated on the tail of the slope from Mount Egmont. It is fairly flat; the soil is volcanic; thence to about 90 miles, in the Ohura Valley, the country is all clay and papa rock, overlaid by good soil, principally in the form of ridges. Beyond 90 miles the flat country is covered with pumice, only the hillsides being free, and at 100 miles the papa rock is overlaid with the volcanic rock rhyolite.

Up to 55 miles the country is all suitable for close settlement, and also from 66 miles to 90 miles, while the balance is only fit for close settlement in isolated places.

#### Waitara Route.

The country along this route up to 23 miles, in Mimi Valley, is good, being for fifteen miles suitable for agricultural purposes. It is described more particularly under Awakino route.

From 23 miles to junction with Nagire route it is rough, only occasional pieces being suitable

for close settlement.

This route, in addition to passing through all the rough country on the Ngaire route, passes through the rough country between the Ngaire route and the sea-coast, and then has the sea on one side for the remaining distance, which is sufficient to condemn it without considering its excessive cost per mile.

#### Awakino Route.

From the Waitara River to Pukearuhe, near the White Cliffs, the country is undulating, forming in plan a roughly shaped triangle, with its base, about four miles and a half long, between Waitara and Tikorangi, and its apex at Pukearuhe. This is bounded on the north and west by the sea, and on the south and east by rough ridgy country. The line crosses this undulating country—which is of good quality, and suitable for agricultural purposes—as far as the Mimi River, where it turns and follows up the valley. With the exception of the short length on the coast, the Mimi Valley, like the valleys of all the rivers along the coast, is formed of steep papa ridges and spurs, with a small extent of flat ground in the bottom.

From the Tongaporutu River to Awakino Heads there is a small extent of undulating country immediately adjoining the beach, which is succeeded by papa-rock ridgy hills.

From Awakino Heads to a few miles below Mahoenui the country is very broken. the Central line the country is generally good, and suitable for close settlement. The hills are less steep, and the valleys more open. Limestone shows freely throughout this last part.

#### FORMER REPORTS.

The country and engineering features of the Ngaire route have been reported upon beforenamely, in 1884 and 1889, the former on completion of exploration, the latter on completion of detail survey. My recent inspection of the country has given me no cause to modify the views expressed therein, the gist of which are included in this report.

#### LAND-TENURE.

This has not been considered, because, no matter who the land belongs to, it must bring revenue to the line, and the Government has the power of compelling proper cultivation through the Land for Settlements Act.

#### SETTLEMENT.

#### Ngaire Route.

The opening-up of the country along this route by means of roads has advanced settlement very much, large areas of bush land having been cleared and brought into cultivation. Settlers are now living along the line as far as the 50th mile, and some settlement has taken place in the Mangaroa Valley.

Waitara Route.

Very little settlement has taken place on this route beyond that in the Mimi Valley.

#### Awakino Route.

The undulating country along the coast for some distance beyond Tongaporutu River is now settled, and settlement is now extending up the Tongaporutu Valley.

From Awakino Heads to a little beyond Mahoenui settlement has taken place, a large area of

bush along the road between these places having been cleared.

A special settlement has been made at Paemako, and a considerable area has been improved at Puketiti.

#### MINERALS.

#### Ngaire Route.

Coal-seams have been seen in the Tangarakau Valley at 61 m. 40 ch., and in the Paparata Valley at  $63 \,\mathrm{m}$ .  $60 \,\mathrm{ch}$ .

Limestone in the form of shell rock has been found in the hills near 15 miles, and in the Tangarakau Gorge.

Gravel has been found up to 8 miles, and also in Tangarakau Gorge, Mangaroa, and Ongaruhe

Building-stone, suitable for chimneys, small culverts, &c., occurs in the form of shell-rock limestone in the Tangarakau Gorge, and in the form of rhyolite in the vicinity of Central line.

#### Waitara Route.

Coal as on Ngaire route.

Limestone in form of shell rock in the Tangarakau Gorge. Gravel occurs up to Uruti, 22 miles, and in Tangarakau Gorge, Mangaroa, and Ongaruhe

Building-stone as on Ngaire route.

#### Awakino Route.

Coal.—The Mokau coal-measures crop out in the Awakino Valley, close to Mahoenui.

Limestone occurs a short distance up the Mokau River from the heads, and also abundantly from a few miles below Mahoenui to the central line. There are numerous varieties, one being of an amorphous description, which can be quarried in large blocks; another is commonly described as shell rock; another is crystallized and is built up of laminations; while another consists of very small fragments of other varieties cemented together—this also occurs in the form of laminations. This variety is very suitable for constructing various articles in building-work, such as pilasters, friezes, &c., and also for such articles of furniture as billiard-table and washstand tops, and also for tombstones; it is very handsome, and takes a good polish. The laminations of the last two varieties are easily separated, and, as they vary very much in thickness and area, large slabs can be obtained, with only the trouble of separating them, suitable for any class of work.

Gravel occurs in the Mimi Valley, and upper part of the Awakino River.

Building-stone, in the form of shell rock and rhyolite, suitable for culvert-construction can be obtained, the former near Mokau Heads, the latter near Central line; while limestone, as described above, can be obtained from 57 miles to Central line, suitable for the highest classes of building- and bridge-construction.

#### TIMBERS.

#### Ngaire Route.

Ordinary building timbers, comprising rimu, kahikatea, and matai, can be obtained in abundance throughout the route, and also such timbers as maire, hinau, and rewarewa to a limited extent. In the Tangarakau Gorge a little birch and tanekaha can be obtained. Totara is very scarce.

Waitara Route.

Similar to Ngaire route.

#### Awakino Route.

Very similar to Ngaire route. A better description of birch can be obtained. Puriri in limited quantities can be obtained along the coast from Tongaporutu River northwards. Totara is scarce.

#### AREAS OF COUNTRY SERVED.

#### Ngaire Route.

On the attached plan of the Taranaki Province the country already served for ten miles on each side of the New Plymouth-Wanganui and Central lines is coloured brown. The country that would be served for ten miles on each side of the Ngaire route is coloured red.

## Mokau Port.

The area of country that will be served by this port is coloured blue.

## Awakino Route.

The area of country that will be served for ten miles on each side of this route, exclusive of that served by Mokau Port, is coloured yellow. This shows that a minimum of benefit is derived from the Awakino route.

The country along the Ngaire route changes a few miles above Nihoniho-o-te-kiore, on the Ohura River, and within the influence of the Central line, to a very inferior class, while to the westward it continues good; so that if the line as explored by myself in 1884 was adopted from either Mangaroa or Ohura Valleys across to Mokau-iti Valley, thence to and up the Mokau Valley to Mokau Station, the country coloured yellow along the northern part of Awakino route would be served by the Ngaire route, leaving a very small area which would not derive material benefit from a railway-line or seaport. This deviation would make the Ngaire route longer than continuing up the Ohura Valley, but less of it would be within the influence of the Central line.

#### RAILWAY REVENUE.

#### General.

A railway connecting Taranaki with Auckland by whatever route will not derive any revenue from through goods traffic, as it could not compete against sea-carriage any more than the Wellington-New Plymouth line can compete against the steamers trading into the Ports of Wanganui, Patea, New Plymouth, and Waitara. Consequently it must depend for revenue upon the traffic with the nearest seaport, and so much through passenger traffic as may be gained through dread of a seapassage.

According to present rates, the cost of a single first-class ticket by railway from New Plymouth to Auckland will be, according to route, from £2 12s. to £3 6s., without meals, while the present steamer-fare is £1 11s., including meals, and 1s. from Onehunga to Auckland, a very considerable difference in favour of the sea-passage, which many passengers will no doubt avail themselves of, as is done at present between New Plymouth and Wellington.

The route therefore which will bring the most traffic to a seaport must be the best. This will be that which opens up the greatest extent of good land beyond the reach of payable road-carriage.

#### Ngaire Route.

A glance at the map already referred to shows that the Ngaire route strikes well inland, and runs through good country situated inland of the belt of rough country which extends from middle

part of course of Waitara River right up the coast. This belt of rough country makes road-communication with the sea-coast very difficult and long, a feature which is all in favour of this route.

In order to shorten the distance to seaport at New Plymouth or Waitara, the line should connect with present line at Stratford. The necessity of Eltham as the junction has ceased since the adoption of the Central line as the means of communication between Wellington and Auckland.

#### Awakino Route.

The great drawbacks to this route are its being along the sea-coast for half its length, that it connects two shipping ports, that for fifty miles it must depend upon a belt of very rough country for traffic from which a minimum quantity can only be derived, and that the Port of Mokau will deprive it of a large percentage of its revenue.

#### PORT OF MOKAU.

The Mokau River at its embouchure has excellent natural advantages for the formation, at a small outlay, of a good port, suitable for moderate-sized vessels drawing up to, say, 12 ft. of water.

There is a bold headland on the south side, skirted by a reef visible at low water, which forms a natural training-wall in a good position for and does maintain the channel across the bar in a permanent position. There is an extensive tidal basin extending some twenty miles up river, giving great scouring force, which only requires to be confined by short sea-walls to give a permanently deep channel through the sand-bar. A short length of half-tide walls are also required to maintain the channel inside the bar in a permanent position, and with somewhat flatter curves than exist at the present time. There is a sand-drift along the coast from south to north, which, however, would cause little trouble, as the tidal scour and river-floods will be quite sufficient to maintain a deep channel when controlled by suitable walls.

With the port thus improved and served by good metalled roads, the country surrounding will

be in a better position than if it had a railway-line along the sea-coast.

The country for a considerable distance from the coast is suited principally for sheep-grazing, so that in a few years a large export of wool and meat will arise from the Tongaporutu, Mohakatino, Mokau, and Awakino River Valleys, which can be most ecconomically dealt with by way of this port, either by lightering to foreign trade-vessels, as is done at present at Waitara, or by coastal steamers transhipping at the larger ports. The harbour improvements mentioned would enable lightering to be carried on at any state of the tide.

In addition to the products of the soil, there will in the near future be a considerable export trade in coal from the mines up the river, and possibly also in time from the limestone deposits, which will demand some harbour improvements, which cannot be avoided by constructing a

railway.

The roads for serving the port should be located at the bottoms of the valleys, and, wherever possible, with an even grade throughout, the higher country having a lighter description of road always falling towards the main valley roads, so that all export traffic may naturally gravitate towards the shipping port. The useless rises and falls so often seen, particularly when attaining the extent of that over Taumata-maire Ridge, in Awakino Valley, should be avoided as causing useless expense for haulage, which can only detract from the prosperity of the district.

The country towards the upper part of the Awakino Valley, and upon which the Awakino route would have to depend for the bulk of its revenue, can be admirably served, and the necessity for a railway avoided, by locating the main road from Taranaki to the Waikato (which is now in course of construction) down the bottom of the Awakino Valley to the Heads, thence to the Port of Mokau, and metalling it with the laminated limestone before mentioned, it being admirably adapted

for breaking with stone-crushers at very little expense.

#### DISTANCES.

Attached hereto is a table of distances from Auckland and Wellington of important points along the various routes, and also along the Central line.

#### PLANS AND REPORT.

Forwarded herewith is a plan of Taranaki showing the several routes, also a drawing showing the longitudinal sections of each route, and also a report, with plan, by Mr. A. C. Koch, Assistant Engineer, who was instructed to assist me with the exploration.

#### RESPECTIVE MERITS.

#### Ngaire Route.

(1.) Can draw traffic from the largest area. (2.) No formidable engineering-works. (3.) Good country suited for close settlement extends on both sides of the line for 76 per cent. of its length.

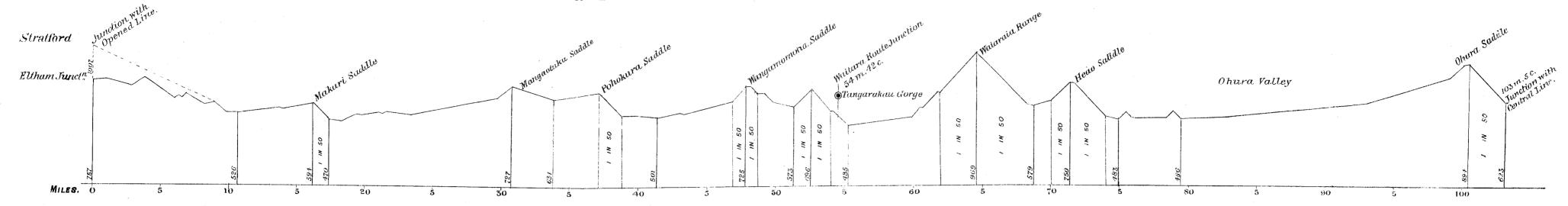
#### Waitara Route.

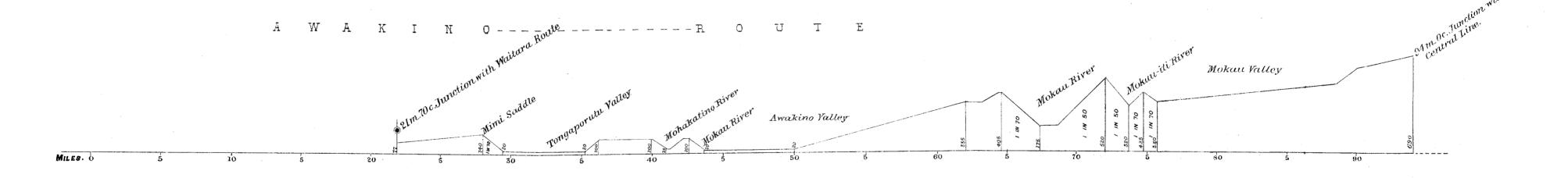
(1.) Formidable engineering-works. (2.) High cost per mile. (3.) Good country suited for close settlement extends on both sides of line for only 49 per cent. of its length.

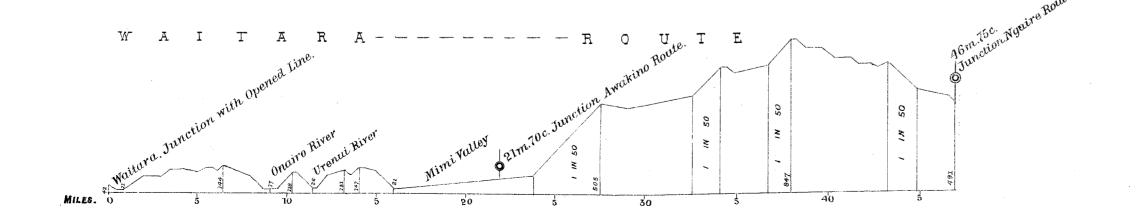
#### Awakino Route.

(1.) Easily constructed. (2.) Best grades. (3.) Good country suited for close settlement extends on both sides of line for only 40 per cent. of its length. (4.) Runs too near the sea-coast. (5.) Has to compete against sea-carriage.

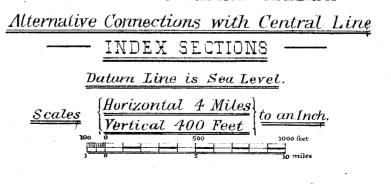




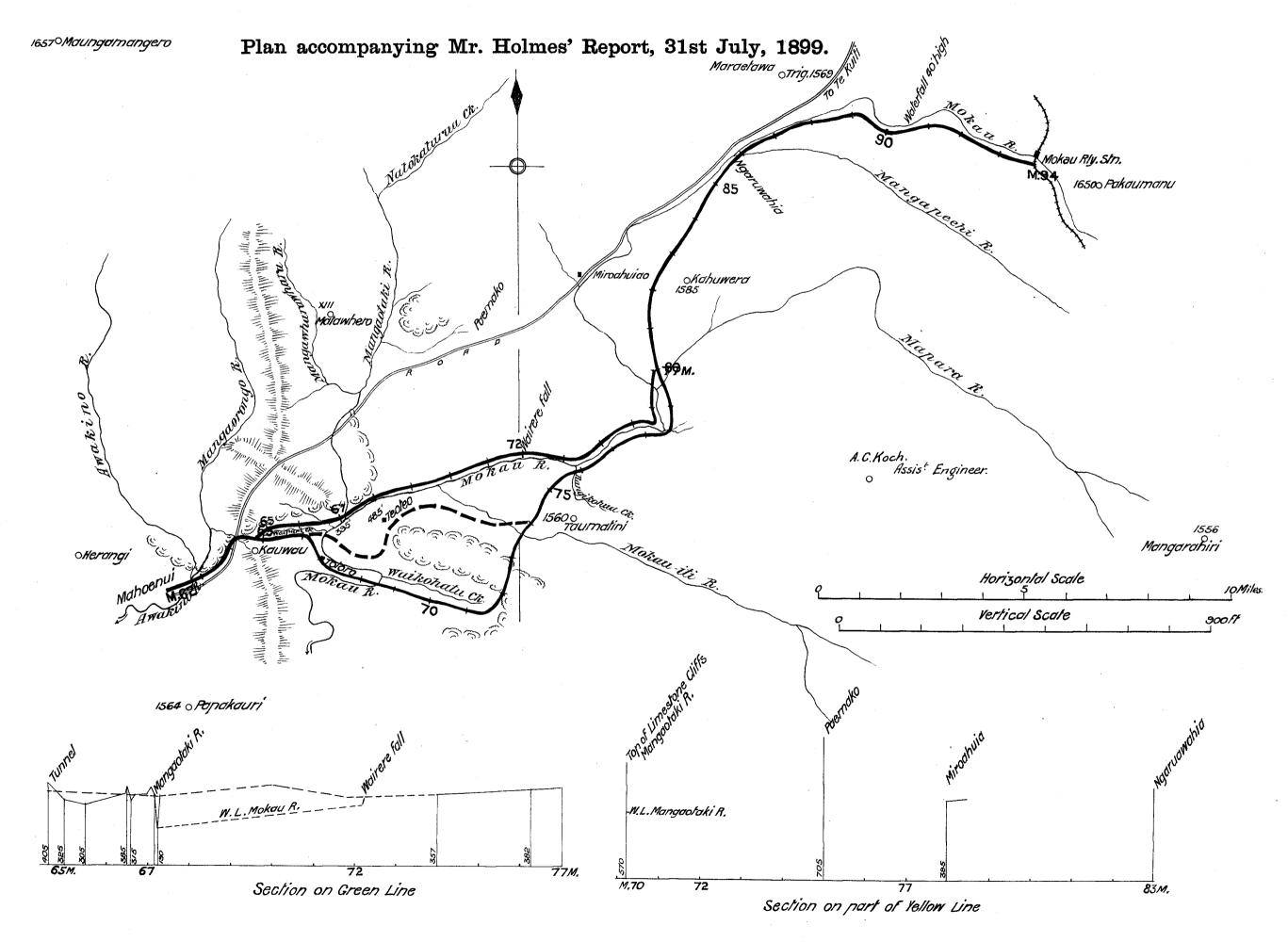




## TARANAKI-AUCKLAND RAILWAY



## ALTERNATIVE CONNECTIONS WITH CENTRE LINE.



113 D.-1.

#### BEST ROUTE.

Taking into consideration the merits as enumerated above, I have no hesitation in stating that the Ngaire route is the best, and, further, that the country passed through is good enough to support a line, especially with the deviations mentioned at each end, without taking into consideration the question of its being a means of communication between Auckland and Wellington and Taranaki; in fact, a railway-line will be almost a necessity for the future prosperity of the country, owing to the long distances which most of it is from a market, and the difficulty of maintaining roads in proper condition to allow of carting all the year round, due to the lack of suitable materials for metalling them.

#### ROADWORKS.

In conclusion, I wish to draw attention, as was done in 1889, to the necessity of locating the main road through the Tangarakau Gorge and approaches, so as not to interfere with the railwayline, as in places where the road is completed no attention seems to have been paid to the necessity of avoiding the railway-line, which will cause useless expenditure on road-deviations when railway-construction is undertaken.

#### APPENDIX.

An appendix is attached hereto giving some remarks on the length and cost of the Central line, with reasons for its adoption, as the means of communication between Auckland and I have, &c., R. W. Holmes, Wellington.

The Engineer-in-Chief, Wellington.

Resident Engineer.

#### APPENDIX.

SIR.-

Public Works Office, Wellington, 31st July, 1899.

I have the honour to draw your attention to the following remarks on the

#### CENTRAL LINE.

#### Distances.

Distance between termini of parts opened for traffic is 1403 miles.

Distance between termini of parts under construction is 1133 miles.

Length under construction at present time is twenty-seven miles. Of this distance eleven miles of formation at southern end are completed, with exception of Makohine Viaduct.

The distance between Marton and Te Awamutu is 210 miles. These places are the termini of what is generally known as the Central route. Of this distance 69‡ miles have been completed for traffic and opened.

Distance between Auckland and Wellington is 426½ miles.

## Cost.

An estimated expenditure of £1,211,665 is required to complete this line, an average of £8,610 per mile. This estimate, as per details attached, is based upon actual quantities for eighty-seven miles of the 1403 miles; the balance of 533 miles is based upon comparisons with the former part, so that it is correct within narrow limits.

## Reasons for Adoption.

The following are the chief reasons for constructing this line as the means of communication between Wellington and Auckland instead of via Taranaki:-

1. It is the shortest distance by fifty-one miles.

2. It avoids the heavy grades of opened line from Turakina to Waitotara, and the lesser grades between the latter place and Hawera.

3. There are less rises and falls by 1,128 ft.

4. The journey between Wellington and Auckland can be performed in a very much shorter time, because: (a) The distance is shorter; (b) there are fewer rises to haul trains up; (c) the line is a better running one, as the grades and curves are easier, thus allowing of greater speed.

5. The grades are flatter over the greater part of the distance.

6. It passes nearly through centre of North Island, thus opening up the interior, which can

only be effectively accomplished by a railway.

7. That the country is excellent on both sides of line up to the 61st mile from Marton, and is capable of supporting a line without regard to through traffic. That the country is good to the westward of line for remainder of distance. That the country to the eastward, although inferior, is capable of providing considerable freight, such as wool, stock, &c.

8. That it is the only means of tapping the large forests in the Waimarino Block.

9. That the royalty derivable from these forests, if properly conserved, will pay for the line.

10. That these forests will be a perpetual source of revenue.

11. That it will enable the country between these forests and the Wanganui River to be suitably settled, which will otherwise remain to a great extent unproductive.

12. That it will enable the San Francisco mails to reach Wellington and the South Island in

the shortest possible time.

#### Forest-conservation.

As the forest in the Waimarino and other blocks lying between the Murimutu Plains and the Wanganui River near Taumaranui occupies country that is adapted to forest growth more than to ordinary settlement, owing to inferior quality of soil and rigorous climate, and as this forest is extensive enough to afford a permanent revenue for the railway, steps should be taken to insure its being worked on systematic lines, and provision made for perpetuating the forest by compelling the replanting of all areas cut out with suitable quick-growing trees.

I have, &c.,

R. W. Holmes,

Resident Engineer.

The Engineer-in-Chief, Wellington.

Resident Engineer.

TABLES OF DISTANCES BETWEEN WELLINGTON AND AUCKLAND. Via CENTRAL LINE.

From	To Wellington.	To Auckland.	Intermediate Distances.
	M. ch.	M. ch.	3.5
Wellington		426 39	M. ch.
Mantan Tunation	116 34	310 5	116 34
Man and the first and the second states	138 74	$287 \ 45$	22 40
M( - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	149 74	276 45	11 0
(D) : 11 ( 3) 1	161 14	265 25	11 20
Was a summer ( Management of Discount of D	185 34	241 - 5	24 20
XX7 a in the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state	195 34	$\frac{211}{231} \frac{5}{5}$	10 0
Waimarino (summit of long grade from Wanganui Rive		$\frac{201}{206}$ $\frac{3}{20}$	24 60
Taumaranui (bottom of long grade from Wanganui Rive	$\frac{252}{252}$ 71	173 48	32 57
Kawakawa (point of junction, Ngaire route)	268 39	158 0	15 48
W	274 79	151 40	6 40
Dana a tama ( I aman I lim's)	279 51	146 68	4 52
Malan (and the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the fir	292 4	134 35	12 33
To Arraments	326 39	100 0	34 35
Analyland	426 39		100 0
New Plymouth	252 0	445 0	

#### Viâ NGAIRE ROUTE.

${f From}$		The second second	To Wellington.	To Auckland.	Intermediate Distances.
•			M. oh.	M. ch.	M. ch.
Wellington	***	• • •	•••	477 - 5	
Marton Junction, central line	•••		116 34	360 51	116 34
Eltham Junction	•••		216 0	2 <b>61</b> 5	99 46
Strathmore Township	•••		238 15	238 70	$22 \ 15$
Wangamomona Township	•••		257 13	219 72	18 78
Head Wangamomona Valley (heavy work	begins)		264 0	213 - 5	6 67
Waingarara Junction, Waitara route, an ment rough country	d commend	<b>8</b> -	270 20	206 65	6 20
Coal-seams, Tangarakau	•••		278 0	199 5	7 60
Heao (end rough country)	•••		288 0	194 5	5 0
Mangaroa (end heavy work)			290 0	187 5	7 0
Nihoniho, on Ohura River	•••		299 20	177 65	9 20
Kawakawa, junction with central line		.,,	319 5	158 0	19 65
Waimeha (end works in progress)			325 45	151 40	6 40
Poro-o-tarao (end opened line)	•••		330 17	146 68	4 52
Mokau Junction, Awakino route			342 50	134 35	12 33
Te Awamutu			377 5	100 0	34 35
Auckland			477 5		100 0
New Plymouth			252 0	296 0	

## Via Waitara Route.

From	To Wellington.	To Auckland.	Intermediate Distances.
	M. ch.	M. ch.	M. ch.
Wellington		499 52	
Marton Junction, central line	116 34	383 18	116 34
Eltham Junction, Ngaire route	216 0	$283 \ 52$	99 46
Stratford	221 22	$278 \ 30$	5 22
Sentry Hill Junction (10½ miles to New Plymouth	243 10	256 42	21 68
Harbour)			
Waitara, junction with opened line	245 72	253 60	2 62
Urenui	256 62	242 60	11 0
Mimi (rough country begins)	261 72	237 60	5 0
Uruti (heavy work begins)	270 0	229 52	8 8
Waingarara, junction with Ngaire route	292 67	206 65	22 67
Coal-seams, Tangarakau	300 47	199 - 5	7 60
Heao (end rough country)	305 47	194 - 5	5 0
Mangaroa (heavy work ends)	312 47	187 5	7 0
Kawakawa, junction with central line	341 52	$\frac{158}{158}$ 0	29 5
Waimeha (end works in progress)	348 12	151 40	6 40
Poro-o-tarao (end opened line)	352 64	146 68	$4\overline{52}$
Mokau, junction with Awakino route	365 17	134 35	12 33
Te Awamutu	399 52	100 0	34 35
Auckland	499 52		100 0
New Plymouth	252 0	264 0	

## Viâ AWAKINO ROUTE.

From	To Wellington.	To Auckland.	Intermediate Distances.
	M. ch.	M. ch.	M. ch.
Wellington		474 27	
Marton Junction, central line	116 34	357 73	116 34
Eltham Junction, Ngaire route	216 0	258 27	99 46
Stratford	$221 \ 22$	253 - 5	5 22
Sentry Hill Junction (10½ miles to New Plymouth	243 10	$231 \ 17$	21 68
Harbour)			
Waitara, junction with opened line	245 72	$228 \ 35$	2 62
Urenui	256 72	217 35	11 0
Mimi Valley, junction with Waitara route	267 62	$206 \ 45$	10 70
Tongaporutu Heads'	281 0	$193 \ 27$	13 18
Mokau Heads	288 40	$185\ 67$	7 40
Awakino Heads	292 40	181 67	4 0
Mahoenui	308 0	166 27	15 40
Wairere Falls, Mokau River	322 0	152 27	14 0
Mokau, junction with Central line	339 72	$134 \ 35$	17 72
Te Awamutu	374 27	100 0	34 35
Auckland	474 27	• • • •	100 0
New Plymouth	252   0	239 0	•••

# ESTIMATES OF COST. CENTRAL LINE. Estimate of Cost of Completion.

From	To	Section.			Length.	Rate per Mile.	Amount.
M. ch. 22 40 33 40 40 40 50 45 61 40 69 0 484 32 91 62 103 40 111 40 121 40 65 0 49 0	M. ch. 33 40 40 40 50 45 61 40 69 0 A84 32 91 62 103 40 111 40 121 40 129 37 83 0 65 0	Makohine Mangaweka Paengaroa Hautapu Falls Waiouru Murimutu Raetihi Waimarino Makaretu Ohongo Whakapapa Ongaruhe Ohinemoa			M. ch. 11 0 10 0 10 5 10 75 7 40 13 67 8 75 11 58 8 0 10 0 7 77 18 0 16 0	\$ 3,933 12,684 10,000 8,575 6,998 6,640 13,500 9,000 12,000 8,000 10,000 5,777 7,326	£ 43,263 126,836 100,625 93,790 52,485 91,638 120,656 105,525 96,000 80,000 79,625 104,000 117,222

NGAIRE ROUTE.

Estimate of Cost.—Based upon Actual Survey.

Section.		Subdivision No.	From	To	Length, Net.	Rate per Mile.	Amount
		_	M. ch.	M. ch.	M. ch.	£	£
Ngaire	• • •	1	···	5 26	5 25	6,446	34,244
,,	•••	2	5 26	10 0	4 48	7,639	35,138
,,	•••	3	10 0	16 0	5 74	5,538	32,951
,,		4	16 0	22 77	6 76	8,731	60,678
,,		5	22 77	29 77	7 0	5,112	35,782
,, ,	•••	6	29 77	31 0	1 3	10,404	10,794
,, ···		7	31 0	37 0	6 0	5,188	31,126
<i>"</i> ····		8	37 0	38 73	1 73	17,460	33,392
Fangarakau	•••	6	38 73	47 73	9 0	6,631	59,679
,,		5	47 73	49 5	1 10	23,353	26,272
,,		4	49 5	<b>52 48</b>	3 40	6,676	23,367
,,		3	<b>52 48</b>	55 32	2 62	10,141	28,143
,,		2	$55 \ 32$	60 59	5 24	8,064	42,737
,,		1	60 59	64 73	3 77	16,300	64,586
Heao		1 1	64 73	68 73	3 74	15,498	60,830
,,	,.	2	68 73	75 63	6 66	10,221	69,762
Ohura		5	75 63	83 56	7 73	5,032	39,820
, , , , , , , , , , , , , , , , , , , ,	. ,. <i>.</i>	4	83 56	88 56	5 0	7,348	36,740
<i>"</i>		3	88 56	93 54	4 78	10,281	51,150
"		2	$93\ 54$	98 56	5 2	6,873	34,540
,,	•••	1	98 56	103 56	5 0	10,853	54,266
					103 5	8,403	865,997

Waitara Route.

Estimate of Cost.—Based upon Actual Survey.

Sec	tion.		Subdivision No.	From	То	Length, Net.	Rate per Mile.	Amount.
Waitara			1	M. ch.	M. ch. 8 0	M. ch. 8 0	£ 6,050	£ 48,400
. "	•••	•••	2 3	8 0 16 0	$\begin{array}{cc} 16 & 0 \\ 23 & 0 \end{array}$	8 0 7 0	7,810 5,657	62,480 39,600
"			4 5	23 0	29 0	6 0	28,826	172,960
"	•••		6	29 0 35 0	$\begin{array}{cc} 35 & 0 \\ 42 & 0 \end{array}$	6 0 7 0	16,901 $10,739$	101,409 75,174
"		• • •	- 7	42 0 ( 46 75 )	46 75	4 75	9,200	45,42
Tangarakau			3	54 42	55 32	0 70	10,331	9,040
"	•••		2 1	55 32 60 59	$60 59 \\ 64 73$	5 24 3 77	$8,064 \\ 16,300$	42,73 $64,58$
Ңеао ["]			1	64 73	68 73	3 74	15,498	60,83
" Ohura			2 5	68 73 75 63	75 63 83 56	6 66 7 73	$\substack{10,221\\5,032}$	69,76 39,82
,,	•••	•••	4 3	83 56 88 56	88 56 $93 54$	5 0 4 78	7,348 $10,281$	36,746 51,150
. "	•••		2	93 54	98 56	5 2	6,873	34,540
,,	•••	•••	1	98 56	103 56	5 0	10,853	54,266
						95 59	10,538	1,008,921

# AWAKINO ROUTE. Estimate of Cost.—Based upon Exploration Survey.

8	ection.		Subdivision No.	From	То	Length.	Rate per Mile.	Amount.
Awakino			1	M. ch.	M. ch. 8 0	M. ch. 8 0	£ 7,000	£ 56,000
"			2	8 0	16 0	8 0	8,800	70,400
,,			3	16 0	27 0	11 0	5,000	55,000
,,			4 5	27 0	28 0	1 0	24,000	24,000
,,				28 0	52 0	24 0	9,000	216,000
,,			6	52 0	57 0	5 0	12,000	60,000
,, .			7	57 0	62 <b>0</b>	5 0	6,000	30,000
,,			8	62 0	65 0	3 0	5,000	15,000
,,			9	65 0	76 0	11 0	11,000	121,000
,,			10	76 0	90 0	14 0	6,000	84,000
"	•••	•••	11	90 0	94 0	4 0	5,000	20,000
						94 0	7,994	751,400

#### AWAKINO RAILWAY ROUTE.-MAHOENUI TO MOKAU RAILWAY-STATION.

Sir.—

Public Works Department, Auckland, 5th July, 1899. I have the honour to report as follows on that part of the proposed Awakino Railway route between Mahoenui and the Mokau Railway-station.

Referring to the accompanying sketch-plan and sections, I have examined the country along the line shown in red, and also partly the country along the deviations shown in yellow and green.

Yellow Deviation, from 63½ Miles to 86 Miles.—It might be worth while running a trial over this line when the trial surveys are being made, but the necessary rises and falls are against it, and the work would be very heavy along the Mangaotaki; besides, a line following the Mokau River would be more serviceable in opening up the country.

Green Deviation, from  $64\frac{1}{2}$  Miles to 80 Miles.—I am of opinion that if the line is made along this deviation, instead of by Totoro, the grades would be easier, the total distance would be about two miles and a half shorter, and the total cost would not be more than that of the red

The Mokau River from Waipari Creek to the Wairere Falls runs between limestone cliffs which rise to a height of 200 ft., in places, above water-level of river. The Mangaotaki River, which is about 100 ft. wide at water-level, runs also between similar cliffs. It has a papa-rock bottom, and would have to be bridged at an economical height above water-level, and the line on to Wairere Falls would have to be carefully located, with rising and falling grades of, say, 1 in 70, so as to ease the work and adapt the line to the country.

Red Line, from 62 Miles (Mahoenui) to 94 Miles (Mokau Railway-station).—Starting from 62 miles, the line follows up the Awakino Valley to 64½ miles; grades easy, and cross-section flat. It crosses the Awakino River about 623 miles.

At  $64\frac{1}{2}$  miles the dividing-ridge of papa rock is passed through by a 13-chain tunnel.

From 641 miles to 671 miles the line falls with 1 in 70 grade, running down valleys of Waipari Creek and Mokau River; work moderate.

From 67½ miles to 68½ miles the line runs along Mokau River, crossing it at about 68½ miles. The formation-work here would be moderate, and the bridge about 200 ft. in length. The grades would be easy.

From 683 miles to 72 miles the line follows up the Waikohatu Creek Valley, rising with 1 in 50 grade, and passes over saddle at 10 miles, with a 50 ft. cutting. Formation-work would be heavy here, as cross-gullies would have to be crossed on the sideling.

From 72 miles to 733 miles the line falls with 1 in 50 grade to Mokau-iti River; work moderate.

From 73\frac{3}{4} miles to 74\frac{3}{4} miles the line rises with 1 in 55 grade; work moderate.

At  $74\frac{3}{4}$  miles the line passes through limestone ridge with tunnel about 20 chains long.

From 74½ miles to 75½ miles the line falls with 1 in 55 grade; work moderate.

From 75½ miles to 88½ miles the line follows up the Mokau Valley with flat grades and easy work, the large bends of the river being cut off by passing over saddles in the low hills.

From 88½ miles to 90 miles the line rises with 1 in 70 grade to rise over waterfall in Mokau

River; work would be moderately heavy here.
From 90 miles to 94 miles (Mokau Railway-station) the line would follow up Mokau Valley,

cutting off bends where possible; grades and work easy.

As the Waikohatu is much lower than the valley leading to the saddle, at 10 miles from Mokau-iti, I think it would be advisable to run a trial, as shown in dotted red line, from 66 miles to 74 miles. The maximum length of bridge required to cross any of the rivers—except Mokau and Mangaotaki—on the square will be about 60 ft., with usual end spans. Ballast shows in Mokau River, at Totoro, and also in Awakino River.

An approximate estimate of this part of the line of railway, including formation, rails, stations, and rolling-stock, amounts to £240,000. I have, &c.,

R. W. Holmes, Esq., Resident Engineer.

A. C. Koch, A.E.

#### APPENDIX G.

#### NORTH ISLAND MAIN TRUNK RAILWAY.

REPORT ON THE CHARACTER OF THE LANDS AFFECTED VIÂ CENTRAL ROUTE, BY MR. H. J. LOWE.

Department of Lands and Survey,

District Office, Wellington, 4th September, 1899.
Referring to your memorandum of the 22nd ultimo (S.G. 39554), I have the honour to forward herewith a report by Mr. District Surveyor Lowe on the value of the lands adjacent to the line of railway between Taihape and the northern boundary of the Wellington District.

I regret that time has not permitted the work being done more fully. Mr. Lowe and a couple of draughtsmen have done their best; and the information and plans, so far as I can find, are as J. MACKENZIE,

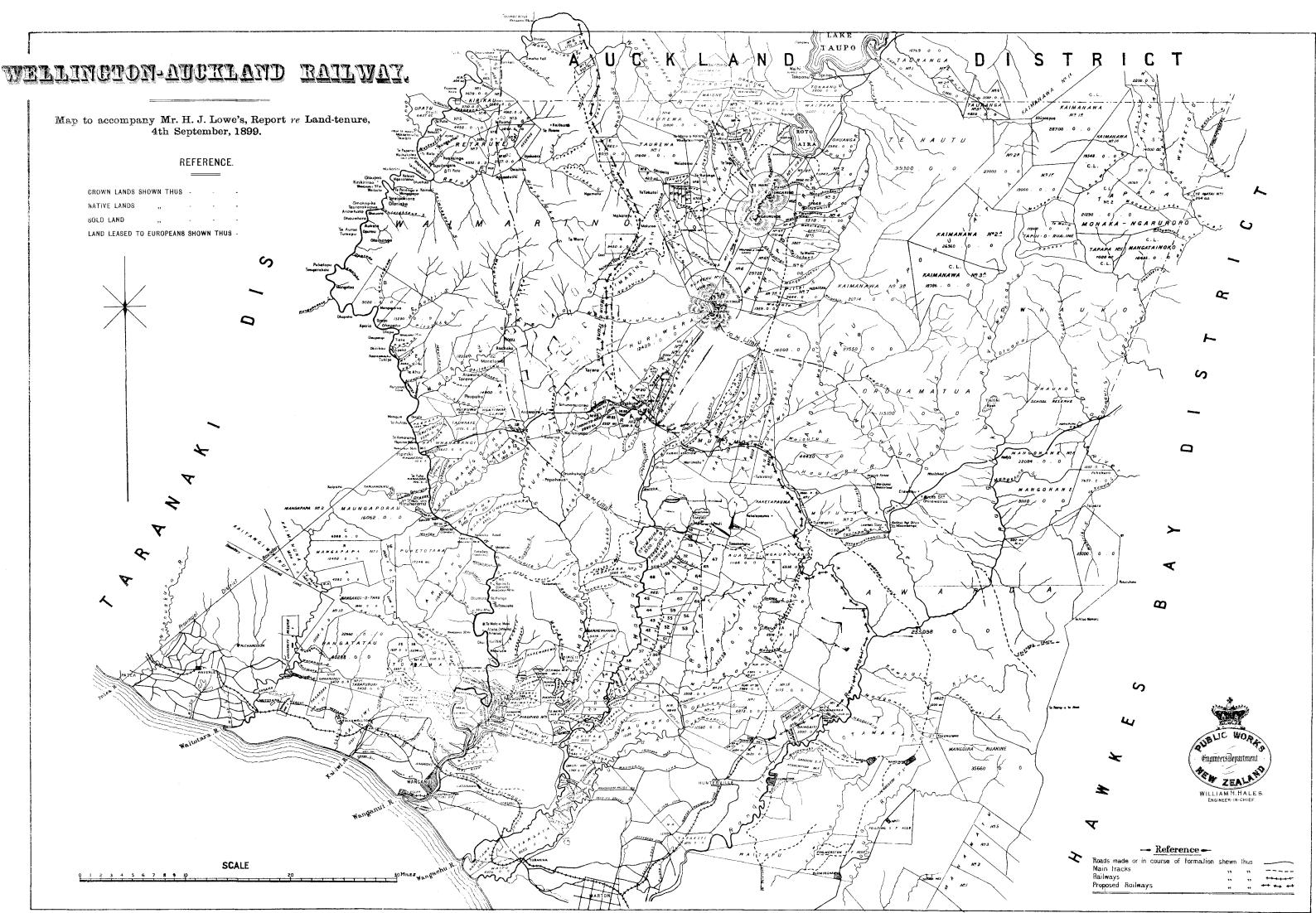
The Surveyor-General, Wellington.

For Chief Surveyor.

Wellington, 4th September, 1899.

Table showing Lands along the Central Route of the North Island Main Trunk Railway, starting from an East-and-West Line through Taihape, and extending for Ten Miles on either Side of the Line to the Boundary of the Wellington Land District at Taumaranui, showing the Crown, Native, and Alienated Lands, their Approximate Areas, and Present and Past Selling values: also some Notes of Timber Soil &co.

Name of Block.	Area within		<del></del>	Ten	ure.		,	General Remarks.
rams of block.	Ten-mile Limit.	Crown.	Value.	Native.	Value.	Alien- ated.	Value.	
Awarua	55,048	Acres. 900	£ 1,350	Acres.	£	Acres.	£	680 acres open fern and grass country, 220 acres
Awarua				31,300	62,600			undulating bush country, medium size mixed Average price, £1 10s. per acre.  Mostly open fern and grass country, hilly, undulating with areas of agricultural land all suitable for smal farms. Average price, £2. Contains about 3,000
Awarua Motukawa	32,935	10,278	8,300			22,848	33,000	acres of good milling timber.  Occupied in farms under 640 acres. Sold at £1 10s. 900 acres low country on river, partly open, partly good bush; 1,300 acres high open country, light soil, on limestone; 8,000 acres high bush and open
Motukawa			•	22,657	30,000	•	. • •	country, on limestone, containing rimu, matai, and some totara, also a great quantity of good kaiwaks (or pihautea): 12s. 6d. to £1 2s. 6d.  Open fern and grass country, some up to 2,000 ft. above sea, some up to 3,000 ft.; also undulating and flat bush, of which at least 2,000 acres could be
Те Кариа	8,200	300	375	••	••	7,900	9,875	milled. Flat and undulating land around Turangarere could be cropped.  Practically all sold in farms of 200 acres, with some small improved farms under 50 acres; also contains site of proposed township of Mataroa, 300 acres. Average selling-price of whole block, 17s. 6d.
Ponuiotane	6,600	2,200	2,750			٠		to £1 10s.  Bush country; hilly; cut into farms of 200 acres,
Ponuiotane		,				4,400	5,500	but forfeited, and now open for selection. Hilly bush country; sold in areas of 200 acres each, and now being felled and cleared for sheep.
Ngaurukehu	9,251	1,120	1,400			•••	••	Hilly, mixed-bush country, good soil; can cut into small areas; not much for milling purposes.  Average price, £1 5s.
Ngaurukehu	••	••	••	8,131	10,164	••	••	Hilly bush and open country, good soil; could cut into small farms. Average price, £1 5s. Some good flax-swamps.
Ruanui	11,166	1,610	3,220				• • •	Hilly mixed-bush and open country, improved; let to Europeans by the Natives.
Ruanui	••	••	••	9,536	27,668	••	••	Hilly, undulating, and flat bush and open country; improved, and carrying about three sheep to the acre. Leased by Natives to Europeans.
Raketapauma	19,689	7,976	6,640	11,713	10,400			High land, 2,000 ft. to 3,000 ft.; open tussock, bush, and swamp; some suitable for farms under 640 acres, and balance under 2,000 acres. Bush contains good rimu, and matai, and kaiwaka, also some good totara, but somewhat difficult of access for milling purposes, more especially the eastern
Mannakarata	9,744	535	535	1,509	1,509	7,700	5,775	portion. Sold over ten years ago, in areas under 2,000 acres,
Maungakaretu Rangipo-Waiau	43,000	34,598	21,625	8,402	5,274	.,,50		at 15s. per acre; mostly cleared and under sheep. High, open tussock country, 2,000 ft. to 3,000 ft.; pumice-sand on limestone. Partly bought by the Crown; leased until 1903 to Europeans; could be greatly improved if cut into areas up to 5,000 acres.
Carried forward	195,633	59,517	46,195	93,248	147,615	42,848	54,150	A



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D.-1.

TABLE showing Lands along the Central Route of the North Island Main Trunk Railway, &c .-- continued.

Name of Die .1	Iame of Block. Area within				Tenu	re.			General Remarks.
Name of Block	<b>x</b> .	Ten-mile Limit.	Crown.	Value.	Native.	·Value.	Alien- ated.	Value.	General Remarks.
Brought forwa			Acres. 59,517	£ 46,195 8,500	Acres. 93,248 6,000	£ 147,615 3,000	Acres. 42,848	£ 54,150	High, open tussock country; pumice-sand on lime
Rangipo - Wais Nos. 1 and 2		23,000	17,000	8,500	0,000	3,.000			stone, papa, and sandstone; partly spoilt by vol- canic deposit. Mostly bought by Crown, but leased to Europeans until 1903.
Oruama <b>tu</b> a	••	15,700		•••	15,700	7,950			Open tussock country; pumice-sand on papa and sandstone. Leased.
Muremutu 1		500	112	56	388	194	• • •		High, cold country, on slopes of Ruapehu. Leased till 1902.
Muremutu 2	••	8,822	7,462	4,664	1,360	850		••	Flat and undulating open tussock country; pumice soil on papa, limestone, and sandatone. Mostly bought by Crown; leased to Europeans until 1902; could cut into small runs over 2,000 acres.
	::	13,000 11,000	5,602 6,286	$3,501 \\ 2,368$	7,398 4,714	4,624 2,946			Ditto.
Muremutu 5		13,081 11,315	8,562 4,223	5,351 4,000	4,519	2,824	7,092	7,500	Ditto. Flat, undulating, and hilly forest land; cut into
- · · ·		32,188	17,844	7,500					areas of under 640 acres. Some flat and undulating mixed forest land; some
Rangiwaia 4					14,344	10,000			hilly and mountainous, covered with birch forest. Some flat and undulating mixed-forest land, some
Parikauau		559			559	559			open grass country, and some hilly birch country.
Tarere Otaroro		285 100			285 100	285 100		::	Some small Native blocks of good bush land.
Okehu		1,370			1,370	1,370		::	Some small reason blocks of good busic failu.
Whataroa Paungataua	• •	492 500	::		492	492	500	500	Good bush land. Sold many years ago.
	nd	31,000			31,000	34,500			Hilly and undulating forest country; could be cut into areas of less than 640 acres (£1 2s. 6d); parts fit for milling.
Tupapanui Marekura		1,280 3,000			1,280 3,000	1,600 3,750			Undulating bush country. Hilly, undulating, and flat mixed bush country suitable for small farms under 640 acres; contains
Waiaka <b>ka</b>		4,514	••				4,514	2,250	good milling timber.  Lower part good heavy rimu forest; upper part
Ngapakihi		2,480			2,480	3,720			poor birch country, on the slopes of Ruapehu. Flat and undulating heavy forest country; suitable
Rangitaua	••	22,965	13,324	10,000		• •			for milling. Southern portion flat and undulating, heavily timbered (mixed) forest country; suitable for areas under 640 acres; contains some very good milling
Rangitaua					341	170			timber. Northern portion, on slopes of Ruapehu, mostly pool
Rangitaua	- •	,	• •	••		• •	9,300	10,462	birch forest.  Mostly heavily timbered flat and undulating forest country; cut into areas of about 200 acres; partly
									felled and grassed, settlers having cows and a creamery; many thousands of feet of milling
Raetihi		17,310	5,895	7,370	9,915	12,400	1,500	2,000	timber close to railway route.  Heavily timbered flat and undulating forest country suitable for small farms under 640 acres; contains
Uriwera		12,429	••		12,429	3,750			quantities of good milling timber.  Partly high limestone table-land, with mixed forest rest slopes of Ruapehu, birch forest and scrub, &c.
Waimarino		278,035	236,000	200,000					Flat, undulating, and hilly bush country, also flat
			•						open plains; hills papa and sandstone, with sprinkling of pumice. Flats north of Manganui
									o-te-ao mostly spoilt by deposits of pumice. Hills good sheep country; some good milling timber also
				İ	}		1	}	The totara forest, 5,000 acres at north end, not yet
		,							properly tested. Parts could be sold under 640 acres, parts under 2,000 acres, parts in larger
								ĺ	areas; while a large area could best be kept as a permanent forest reserve.
Waimarino	••		••	••		••	22,780	12,000	Flat and undulating heavy bush country; cut into small farms under 640 acres; contains thousands of feet of good milling timber.
Okahukura	••	33,000	33,000	8,250					Open tussock plains of pumice-sand; good merino- sheep country.
Taurewa 1		17,600	17,600	8,800	,.	••	• • •		High bush country; unsuitable for small farms; flat, hilly, mountainous.
Taurewa 4 Taurewa 2	••	21,000			21,000	11,500	500	950	High bush country; flat, hilly, mountainous.
Tawhai		5,000	2,000	500	660	330	500	250	Ditto. Partly poor birch country, and partly open tussock
	- 1				2 000	750	)		plain. Mostly poor birch forest.
Tawhai	••	••	• • •	• • •	3,000	130	•••	• •	nationary poor biton forest.

An extract from Mr. G. T. Murray's report on the milling timber in the Waimarino, Raetihi, Rangitaua, Otiranui, and adjacent blocks, as shown by green line on tracing No. 2, is added to these schedules. In addition to this there are totara forests in the north end of the Waimarino probably covering some 5,000 acres, but not yet properly vested. 91,800 acres at 7,000 ft. per acre, and an expenditure in working-expenses of 3s. 6d. per 100 ft., would alone represent the circulation of £1,123,550.

H. J. Lowe,
J. W. A. Marchant, Esq., Chief Surveyor, Wellington.

District Surveyor.

#### [EXTRACT.]

Wanganui, 20th August, 1897. In the Waimarino country the quantity of valuable timber is enormous. The labour of preparing

this land for grazing purposes is very great, and, as a rule, the soil and climate do not allow of sufficient grass to make this labour remunerative. The cost of felling the bush is from £1 15s. to £2 5s. per acre. The timber is so large and so durable, and there is such a quantity of it, that

the ground is littered with logs, and it takes many years to make a good clearing.

A very large area of this fine forest has been already taken up by settlers—in the great majority of cases in areas of 200 acres. Most of the settlers are working-men, and can barely contrive to comply with the clauses of their leases, which compel them to improve so much a year-i.e., to destroy so much timber every season. After it is destroyed the settlers have not the means to stock or fence their clearings; still, hundreds of acres are being felled and burnt every year.

The timber is acknowledged to be the most valuable crop the land will ever produce. On an attached sheet I show results of measurements actually taken to ascertain the number of trees per acre, their size, and variety. In its natural state, on Crown and Native lands combined, I reckon there were approximately as follows (vide attached tracing):-

Good milling timber, on flat and easy land 62,700Good milling timber, on undulating land... 11,600 Fair milling timber, on easy ground 17,500

91,800

This block extends along the line of the proposed railway for about twenty miles, and no part of it is more than six miles off the line, with almost level access to it. The greater part of this area has been allotted to settlers, but a very large portion of the allotted land has not been occupied at all, or thrown up after a short occupation. Some is Crown land yet unallotted, and the remainder is Native land not yet acquired. The Native land is the Raetihi Block and Pakihi (17,450 acres), of which 13,640 acres contain good milling timber.

What I would suggest is that all sections containing good milling timber which are unallotted or forfeited should be reserved, as well as all Crown land of similar value; also, that all Native land suitable for milling should be reserved as soon as it is obtained. On all these lands the timber should be put up to tender only when the line reaches them; after being cut out they

should be disposed of for grazing purposes.

There is plenty of rough land unsuitable for milling, but even more fitted for settlement than the heavy flat bush that may be opened by pushing on the Raetihi-Ohura Road. This country, though rough, is covered with light, good-burning bush, and is much warmer than the flats. The timber on the coastal districts is being rapidly exhausted. The most important assets to the trunk railway are the Waimarino forests; and, if the bush is allowed to be destroyed in the present manner, by the time the railway reaches them much of the best timber will have disappeared.

I may mention that Mr. Penrin, of the Victorian Forest Department, was much struck by

these facts.

The Surveyor-General, Wellington.

G. T. MURRAY, Road Surveyor.

#### APPENDIX H.

#### NORTH ISLAND MAIN TRUNK RAILWAY.

REPORT ON THE CHARACTER OF THE LANDS AFFECTED VIA NGAIRE, WAITARA, AND AWAKING ROUTES, BY MR. H. M. SKEET.

Department of Lands and Survey, District Office, New Plymouth,

3rd August, 1899.

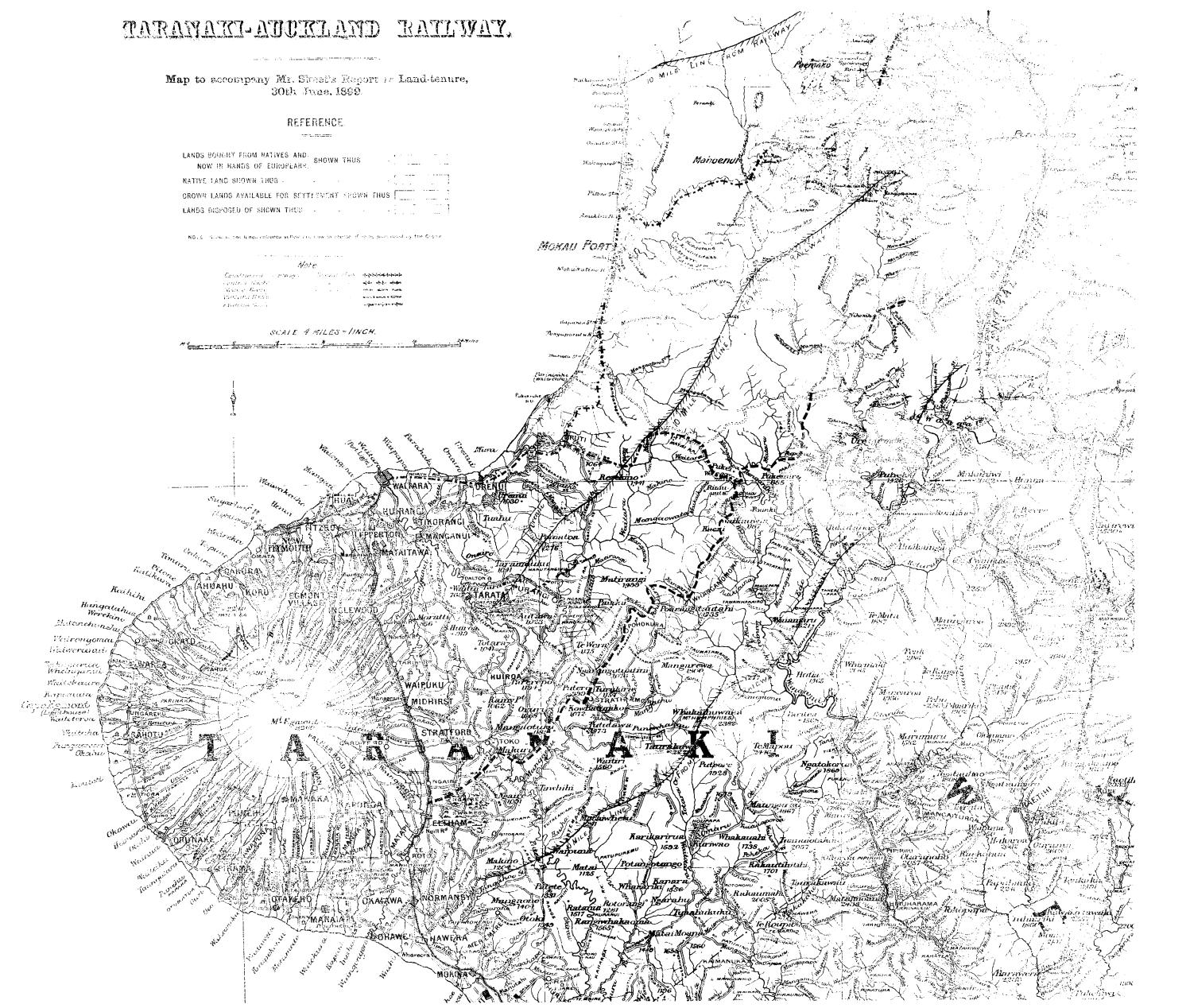
Sir,— In compliance with the instructions contained in your telegram of the 17th May, 1899, and that of the 22nd idem, Mr. H. M. Skeet, District Surveyor, has examined the land on the probable routes of railway-lines—(a) Ngaire to junction with Central route at Kawakawa; (b) Waitara to junction with Ngaire route at Waingarara; (c) Waitara viá Awakino to junction with Central route at Mokau Railway-station-and I now enclose his report, with a lithograph map illustrating it.

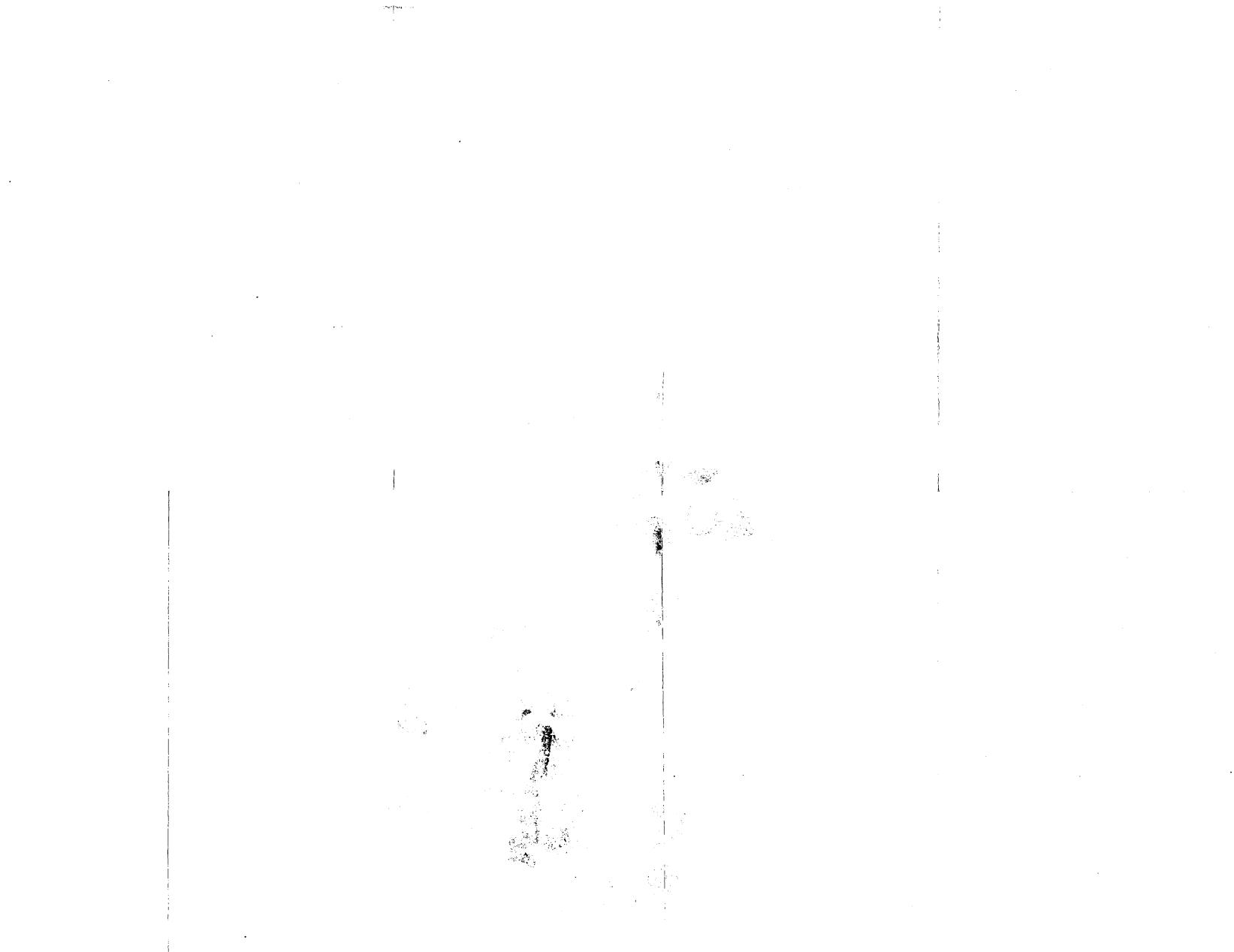
Although written on the 30th June last, the report was delayed at Mr. Skeet's request, for the reason that the Native Land Court was then defining the interests of the Crown in lands affected by the proposed routes, the particulars of which (on the Ngaire route) have only just reached me.

In addition, some 21,618 acres in this Land District, and certain areas in the Auckland Land District that would be opened up by the Awakino route, have recently been purchased by the Crown from the Native owners, but, as no definite information is available, I am unable to locate the purchases on the map accompanying the report, the Native Land Court maps being still in the custody of the Auckland Survey Office.

The Surveyor-General, Wellington.

John Strauchon, Chief Surveyor.





Sir,— New Plymouth, 30th June, 1899.

I have the honour to report that, according to your instructions, I have examined the land along the several suggested lines of connection between Taranaki and the Main Trunk Railway (North Island), and report as follows:—

#### Ngaire Line.

First mile, starting from the railway near Eltham, is through land in a high state of cultivation; then two miles through damp ground near the Ngaire Swamp; the next two miles through first-class land, newly brought into use; three miles and a half more (to the Patea River), through the Pukengahu Block, first-class agricultural land. The Toko blocks continue on to the 15th mile, all rich agricultural land, greatly improved and occupied; Huikama Block, from the 15th to the 23rd mile; the holdings here are larger, well improved, and stocked. Contiguous to this block the country is generally settled in areas, from 100 to 800 acres, now being improved. 23 miles to 26 miles is through Mangaere Block, part of which is divided into a small-farm improved settlement, and other parts held under ordinary systems of tenure; all the sections are improved. 26 miles to 31 miles, through the Pohokura Block, which is divided into large holdings made into sheep- and cattle-farms; areas, from 600 to 3,000 acres, well improved and stocked. In most cases the land would be classed as agricultural and first-class pastoral. 31 miles to 34 miles, down the Makahu; the Ross Special Settlement is on one side and general settlement on the other. 34 miles to 38 miles is through land divided into sections from 200 to 700 acres, pastoral land. From the 38th mile to the 50th mile is through the improved small-farm settlement of the Wangamomona Valley, with the land on both sides of the settlement cut up into larger sections held on the general tenure system; first-class pastoral. 50 miles to 54 miles, from Raekohua over the ridge to Waingarara, and on to Tangarakau; this portion takes in some broken country, pastoral, fit for larger holdings. 54 miles to 62 miles is up the Tangarakau Gully, where the land on both sides for two miles is much broken, with black-birch spurs, not suitable for agricultural purposes. The timber and coal on this portion would be a large source of revenue. Up the Paparata, over the saddle, on to Heao to the 67th mile is good pastoral land. 67 miles (Heao) to 71 miles (Parae), along the valley, is good land fit for general agricultural purposes. On the eastward the Ohura Valley, a valley of good general settlement land, would drain into line. About Parae, the head of the Heao Stream, there is about 1,000 acres of light bush and scrub. From Parae to Huhatahi the line runs over a ridge; good first-class pastoral land. 75 miles (Huhatahi) to 80 miles (Mangaroa) is through first-class agricultural land, soil good, all forest. Mangaroa to Ohura, two miles heavy bush land, first-class quality. On the north side is Ellis's fine clearing of 500 acres; on the south side standing bush; easy sloping hills. The line from the Ohura Crossing to Nihoniho, for a distance of six miles, is through patches of bush, fern flats, and poor fern hills. On the north side of Ohura it is all forest land of good quality; a portion of this has been set apart for an improved-farm settlement. From Nihoniho, 85 miles, to 88 miles, Taupirikura, the line is near the Ohura Stream; the land on north side is bush, of good soil; on the south side fern slopes, spurs, and hills of moderate quality. The land continues the same to Otahu; on the south side the ridges and spurs are more broken, with the bush-line lower down; fair pastoral. The next length, from Otahu to Kawakawa, 12 miles, is through pumice-flats, poor fern slopes and ridges, inferior country; on the north side the land is forest, soil of better quality, good pastoral. From Kawakawa to within three miles of Poro-o-tarao Tunnel the country consists of small flats near the streams, terraces, and good-looking rolling hills, with patches of bush on the higher land. The soil is not good, there being too much pumice, and fires have burnt the first soil; the land is only fit to be cut up into large sections. The last three miles to Poro-o-tarao is a mixture of bush more suitable for settlement.

Regarding the quality and quantity of land available for settlement or occupied along the Ngaire line: Starting from Eltham to Pohokura, with a ten-mile belt on each side, for the first fifteen miles it would give 128,000 acres of first-class agricultural land, occupied and well improved. Timber would be a large source of revenue. In this length I have cut off the area of the first five miles for the present constructed railway. The next sixteen miles would give 210,000 acres of land, 100,000 of which would be agricultural, 110,000 first-class pastoral. With the exception of portions eastward, this land is occupied, and in a state of great improvement. Timber, again, would be a considerable source of revenue. From the 31st mile, Pohokura, to Wangamomona, a distance of eight miles, would give 80,000 acres of first-class pastoral land, suitable for sections of 200 acres to 1,000 acres. This portion has not a great number of settlers as yet; they reside along the main road. From Wangamomona to Raekohua, a distance of sixteen miles, is partly up the Wangamomona Valley, where the improved-farm settlement is situated. This is nearly all occupied in small holdings. The back portions are more suitable for larger holdings—300 to 1,000 acres. This is about 150,000 acres of mixed country, 130,000 of which is Crown land, the remainder Native land. From Raekohua to Tangarakau, some 10,000 acres of fair pastoral country, with a good patch of general agricultural country on the Upper Waitara and head of Waingarara (that the Moki Road would tap)—say, 10,000 more. The Tangarakau portion of eight miles, for two miles on each side of line, is much too broken for successful agricultural purposes. The timber is mostly black-birch, that, with the other timbers, would be fit for cutting, as the means of access allowed. Coal outcrops in many parts on this portion. From Paparata to Heao, 12,000 acres of agricultural and pastoral land would be available. Heao to Parae, good agricultural land. This portion would drain all the fine land o

from the westward. In this portion is included the 2,000 acres freehold and leasehold of Mr. Ellis, 500 of which is in grass, with several hundreds more being felled for next season. On the east side of line there are about 10,000 acres of good general country. From Ohura to Nihoniho, on the south side of the road the land is what would be classed as second-class pastoral, fern ridges, slopes, bush gullies, and hill-tops; 20,000 acres on the north side is bush land, of good soil, of which 10,000 acres is pastoral and agricultural, suitable for areas from 200 to 1,000 acres. The Waikaka Road would open up the land to Mokau-iti. From Nihoniho to Otahu, a distance of ten miles, the land on the north side would be pastoral, with patches of agricultural. The streams that run into Waikaka have valleys with considerable areas of open fern and scrub land, the hill-tops being all forest—some 60,000 acres in all; the south side of the line is second-class pastoral, requiring to be divided into large sections. There are 60,000 acres in this portion. From Otahu, where the pumice-covered land commences, to the Central line near Kawakawa, twelve miles: On the north side the land is bush and pastoral, and 40,000 acres would be available; on the south side 9,000 acres would drain to the line, but there is so much pumice on the land that it would require to be divided into large holdings to be of use. From Kawakawa to Poro-o-tarao the country would be classed as inferior pastoral.

Crown Lands.—On the Ngaire line the Crown has acquired from the Natives—Taumatamahoe Block, 114,597 acres; Maraekowhai Block, 22,529 acres; Ohura South Block, 72,665 acres; West Taurangi Blocks, &c., 104,639 acres; part of Mohakatino Block, 15,000 acres; Whitianga Block, 14,808 acres: total, 344,238 acres. The nature of the timber in the heaviest forest land about the Wangamomona, Waingarara, Upper Waitara, Tangarakau, Heao, Mangaroa, and north side of Ohura is rimu, kahikatea, black-birch, matai, and patches of totara, and would be avail-

able.

#### Waitara Line.

Starts from the railway-station, Waitara. To Mimi, fourteen miles, is close to the coast through a closely settled district of first-class agricultural land, divided into small holdings. Mimi to Uruti is up the Mimi Valley for seven miles and a half through what was forest country, but now well improved. This portion is held in larger holdings. Up Uruti to Moki Road, two miles and a half, rich alluvial flats and good hills. Moki Road to Moki Stream, a distance of five miles, the line passes over a rough piece of country; pastoral land. Down the Moki for two miles to the Waitara there is a good piece of mixed agricultural and pastoral land. Up Waitara the line should keep to the valley as far as the Waingarara saddle, instead of over two ridges with long tunnels viâ Makarakia and back to Waitara. A saving of several miles would be effected. There is now a road located up the Waitara Valley, which shows its suitability for a railway-line. From Moki to Waitara, below the Waingarara saddle, a distance of eleven miles, it is good pastoral land. From Waitara to junction with the Ngaire line in the Waingarara there is a good patch of mixed agricultural and pastoral country, a length of five miles.

The amount of available land that the line would open up is as follows: The open part from Waitara Station to Mimi, 22,000 acres, with another 78,000 that the inland roads bring in. From Mimi to Moki, 80,000 acres of mixed agricultural and good pastoral country would be rendered accessible. This portion is capable of being subdivided into moderate-sized sections. From Moki to Waingarara, the railway would affect 75,000 acres. The piece at the head of the Waitara, about 10,000 acres, is general agricultural country; the balance good pastoral, requiring to be in larger sections. Timber in the Waitara and its tributaries would be a considerable source of revenue. On the hillsides there is some very fine rimu and kahikatea; totara is not plentiful. The

roading about the Waitara country would be heavy in many places.

# Awakino Line.

Starting from Waitara, this line will follow the Waitara line to Uruti, twenty-four miles. From Uruti the line follows up Mimi to the ridge dividing the Tongaporutu waters, a distance of Through the Lepperton Special Settlement it is bush land in course of improvement; generally agricultural and pastoral. From the saddle to Tongaporutu the line would be through broken country for two miles, then down the Tongaporutu Valley for four miles to the heads. This is through improved-farm-settlement blocks, agricultural and pastoral land. From Tongaporutu Village to Mokau, a distance of eight miles, the line would run through a narrow strip of land that lies between the hills and the coast, not more than half a mile wide; all good land, and occupied by settlers and Natives. From Mokau it is a question whether the line should follow the coast further to the Awakino River or take up the Mokau Valley for seven miles, then cross a narrow ridge to the upper part of Awakino. It would pass through good pastoral land, with occasional flats on the bends, and good timber and limestone. From Mokau over the narrow ridge to Awakino for several miles the land would be broken, good pastoral. Mokau to Awakino by the coast, four miles along a narrow strip between hills and coast. The first two miles of Awakino is good land, then the valley narrows in, and for five miles the land available would be little. Onwards to Mahoenui the valley widens out with good flats and terraces, distance about seven miles through good rich land, mostly limestone on north side of line. The land is occupied in holdings of 700 to 2,000 acres, greatly improved, some of the settlers having 1,200 acres cleared and in grass. Mahoenui the line crosses over a long ridge to Totoro, on the Mokau River. The country is fern, scrub, and light bush land, distance five miles, pastoral and agricultural land. From Totoro the line follows down a bend of the Mokau, then up a good valley and over a low saddle to the Mokau-iti, length some seven miles, through open land, with a strip of bush at the main ridge, streams swampy, good general country, agricultural and pastoral, limestone formation. From Mokau-iti the line continues through open country to Mokau, length two miles, rich flats near streams,

and fair slopes; follows up Mokau to Mapiu, three miles and a half through open land, pastoral. From Mapiu, for another five miles the line continues up the Mokau Valley through pastoral country; small patches of bush, with swamps, on the lower ground. For another eight miles to the Mokau Station, on main trunk line, it is still near Mokau Stream, through pastoral country of not good quality, swamps near streams, and pumice in soil. The land back from river, where

there is forest, is of much better quality.

Amount of land that line would open up (being a coast-line to Awakino, the land would be all on one side): Taking from Uruti, as the Waitara line is common to both there, there will beto Tongaporutu, 96,000 acres would be tapped by the roads coming down the Mimi and Tongaporutu Valleys; one-fifth would be agricultural, remainder pastoral of good quality, excepting narrow strips of black-birch land. From Tongaporutu to Mokau there are 60,000 acres, available by the roads coming down Mohakatino and Mokau. With the exception of a few thousand acres near Tongaporutu, Rattenbury's 3,000 acres at Kawau, and Jones's lease at Mokau, the land is in the hands of Natives; 10,000 acres in this length would be agricultural, the remainder good and fair pastoral. From Mokau to Awakino, 7,000 acres would be tapped. From Awakino to Mahoenui, on the north side are 22,000 acres of small grazing-runs, in a high state of improvement, which would be tapped by the railway, and also the 36,000 acres of the balance of the Awakino Block, occupied and also well improved; all first-class pastoral country. On the southern side extending to the Mokau River are 22,000 acres first-class pastoral, with occasional patches of agricultural land, which would also drain into the railway; 4,000 acres only of this portion is in the hands of the Crown. From Mahoenui to Mokau, 20,000 acres on north side, first-class pastoral, with patches of agricultural. The Crown have Mahoenui Block of 6,624 acres, and in the Puketiti Block the Natives have parted with many of their interests, the land being occupied and improved by the new holders; limestone formation. South side, about 10,000 acres of good pastoral land would come into railway. From Mokau over the ridge past Mokau-iti on to Mokau again, on the north side 45,000 acres would be made accessible to the railway-line; possibly more of the Kinohaku Block would diverge the same way; good pastoral country, with agricultural in places. On south side 45,000 acres would be opened; pastoral, with some agricultural. The Umukaimata and other blocks of Crown land make 38,000 acres within this area. length up to within seven miles of the Mokau Station, on Main Trunk Railway: On north side there are 25,000 acres of pastoral country, 9,000 acres of which is Crown land, the remainder is still in the hands of the Natives; on the south side of the line, together with the valleys of Mokauiti and Mapui, 50,000 acres would be opened up by the railway; good pastoral country. The Crown has one small block (Kahuwera) in this portion. The remainder of the land to the Main Trunk Line, I think would be opened out by that line, so I have not considered it. As regards timber on this line: On Mimi, the Tongaporutu, Mohakatino, Mokau, aad Awakino Valleys, considerable quantities of good pine would be available. In the Mokau country coal and limestone would be a great source of revenue. The roading of the country on the whole route could be done at a moderate cost. With the exception of the part with pumice, where it would require a large area to get sufficient good patches for a sheep-farm, the pastoral land is all good sheep country, capable of carrying large numbers of sheep. An average of one and a half sheep to the acre would be well within the mark; in places three or four could easily be managed. Everywhere good homesteadsites can be found that would enable any part of the land to be occupied. The agricultural portions could be available for general settlement in smaller areas where dairying, &c., would be carried on. Large pieces of Native land have been acquired, but there appears to be a tendency on the Natives' part not to dispose of the frontage on the likely main roads. Judging from previous experience, this is likely to retard settlement later on. I have, &c., H. M. Skeet, District Surveyor.

J. Strauchon, Esq., Chief Surveyor, New Plymouth.

P.S.—Since writing the above there has been 21,618 acres more land acquired from Natives on the Awakino line.—H. M. S. 2/8/99.

# APPENDIX I.

# RECONNAISSANCE SURVEYS FOR GISBORNE-ROTORUA AND GISBORNE-OPOTIKI RAILWAYS.

REPORT ON, BY MR. J. STEWART, M.INST.C.E.

#### WHAREKOPAE-RUATAHUNA ROUTE.

Sir,—
Auckland, 21st July, 1899.
In pursuance of instructions embodied in your memorandum, P.W. 98/3337, of date 15th

In pursuance of instructions embodied in your memorandum, P.W. 98/3337, of date 15th November last, I have the honour to report, for the information of the Hon. the Minister for Public Works, that I proceeded to Rotorua, and thence to the Urewera country, "to ascertain, in the first instance, if it is possible, at reasonable cost, to construct a line of railway via Wharekopae, Ruatahuna, Galatea, and Kaingaroa Plains, with grades not steeper than 1 in 40 on the straight, and curves of not less radius than  $7\frac{1}{2}$  chains, &c."

My interim reports during the progress of the work referred in some detail to the route I took, and some conclusions arrived at, but it will be well to embody the whole in this report.

Having some knowledge of the country for the first twenty miles from Rotorua, I spent very little time on that part, but pushed on to Galatea and the Tuhoe-land, where it was very evident that the key to the position lay.

The only valley leading from the Rangitaiki Plains, near Galatea, right up to the main divide, or backbone of the country, is that of the Whirinaki and its continuation of the Okahu. But to commence at the entrance of this valley on the plains, and work upwards through dense bush, without having first determined the most favourable point to make for in the main range, would lead to great loss of time. I therefore determined to first explore the main range and find the most favourable place for crossing, which, being accomplished, I could then work outwards towards each end.

At Ngaputahi, on the Waikaremoana Road, I met Mr. Elsdon Best, the officer then in charge of the works there, and from that gentleman I received most valuable assistance in making my way inland with my camp equipage. Mr. Best was also fortunately able to accompany me to Toreatai, the extreme eastern kainga on the route, and explain to the Ngatipotiki Natives the nature of my mission, and so establish me on a good footing with the somewhat suspicious and hitherto rather exclusive Natives of the Urewera. At Toreatai, also, I met Mr. Reilly, overseer on the stock-track works, and from him received information which proved of use in determining my course of procedure eastward of the main divide.

This main range of mountains, for the purposes of reconnaissance, may be considered as extending from Otawhau in a very irregular but generally north-east direction towards the East Cape, and including the mountains Huiarau, Maungapohatu, Te Wana, Maungatapere, and Wharekopae. From the latter point the range takes a northerly bend, and embraces the headwaters of the Waikohu, resuming its north-east direction and dropping, probably, to its lowest level at the Opotiki-Gisborne Road, beyond which it does not concern this inquiry.

Several passes, or saddles, give more or less favourable crossing-places in this line of country; all, with the exception of that at the Gisborne-Opotiki Road, are about 3,000 ft. above the sea. In the examination of the country my principal difficulty lay in the absence of any trustworthy topographical maps. No detail survey-work has ever been executed, with the exception of a little at each end, and I found the sketches of river-courses and other topographical features on the published maps nearly always positively misleading.

Having in view all circumstances, I determined on beginning the exploration in the vicinity of Maungapohatu. Toreatai was then the extreme point to which pack-horses could be taken, and I established my first working camp at Ohaeia, close to that kainga. Beyond, the stock-track through to Hangaroa and Wharekopae had been roughly cut, but was impassable for horses. This track, however, proved to be of very great service to me, as it was the means of making rapid examinations of the country in its vicinity, and I soon determined that the most favourable point at which to cross the watershed was about two miles east of Maungapohatu. The crossing-place is broad and flat, but I afterwards found that a higher ridge must be encountered between the Owhakarotu and an upper affluent of the Anini, two streams of the Hawke's Bay river system.

I decided to open out the stock-track for pack-horses as far as the Anini, and establish a fixed camp there, working onwards by a flying camp to Wharekopae. The crossing of the Anini, and getting into the head-waters of the Waimana, as the upper part of the Hangaroa is called, required much and serious consideration. About a mile and a quarter above the crossing of the Anini by the stock-track, that river is formed by the junction of the Pukukaho on the west and the Okauia on the east, both rising in very deep gorges in Te Wana. I finally decided on the following plan as the least objectionable, but it proved to be one of the most difficult problems to solve in the whole work. After crossing the Owhakarotu-Pukukaho saddle, grade down the right of the Pukukaho into the Anini, grade down that river, still on the right, until a crossing-level is reached,

cross and grade up the left bank, to the Anini-Waimaha saddle, the lowest point of which I

explored and observed.

From Anini main camp I took a flying-camp and seven carriers, using the stock-track, and observing the country in various directions from the several camping-places. Two days' march beyond Anini we struck the works of the stock-track, and shortly afterwards reached the open country. From Mr. Skeates, overseer of the stock-track works, I received much information relative to routes and tracks, and we were otherwise much assisted by the kindness of that gentleman. From the stock-track clearing the route to Wharekopae lay through heavy scrub of various kinds, and fern. We had now the great advantage of open country, and could view and observe the levels of the several master-points of the railway route without actually going on

From the Hangaroa River the route takes up the valley between the Mokonui-Aorangi Range on the left and the Kupenga-ataramainuku Range on the right. After getting into the Wharekopae drainage this route leads down a minor branch of that river, but the descent is so great that I determined to explore a route viâ the main Wharekopae Stream and the Ngutuwera Valley to the west of Mokonui-Aorangi. This I did later on, but found the difficulties much greater, and I believe the first-named route is the better one.

From Wharekopae I rode into Gisborne and procured further data from the Survey Office there, and I have to express my thanks to the officers of that department for their assistance and

courtesy towards me.

I made no attempt to examine in detail the route between Wharekopae and Gisborne, further than to observe that the route would be of very gradual descent down the Rivers Whare-

kopae, Waikohu, and Waipaoa, all through settled country, much of it closely settled.

On returning to the Anini main camp via Maungatapere and the Ngutuwera Valley above mentioned, I received your instructions of date 21st February, to explore the Gisborne-Opotiki route, and not to go into too much detail in connection with the work then in hand. I therefore decided not to take any absolute levels of the several ridges through which it was possible that a detail survey might show tunnels to be required, but to be content with a close observation of these places.

I made all haste to the observation of the western half of the route. Here I was much assisted by the Waikaremoana road-tracks and works, and the numerous Native tracks, some of which are available for horses. I examined the main range from Maungapohatu to Huiarau, and the ridge dividing the Whakatane drainage from that of the Okahu, which leads into the Whirinaki. I believe I have noted all the important and salient features there, but I should have liked to have spent another two weeks on this part. As it was, I hurried over it, in order to have time to examine the Opotiki route. The want of accurate topographical features on the maps was particularly against me here. For instance, the old Native settlement of Te Mimi is, as shown on sheet No. 5 of the Auckland four-miles-to-the-inch maps, just four miles too much north of its real place, according to the District Surveyor of Gisborne. This explains much of my perplexity in trying to locate various features in that direction from Maungapohatu.

I camped at the point where the Waikaremoana Road crosses the Huiarau Range, and examined the country backward towards Maungapohatu and westward towards the Ruatahuna hills and rivers. I then moved to Heipipi, on the Whakatane, and examined the Mangakirikiri branch from Papuera to the ridge, and the Mimiha, a day's march up the valley. I then made all haste back to Rotorua and Auckland, to take up the exploration of the Gisborne-Opotiki route.

Having thus described my movements in making this reconnaissance survey, I now beg to give a short, and I hope a clear, description of the line between Gisborne and Rotorua.

Referring to that part of your instructions, as quoted above, which relates to the curves being not less than  $7\frac{1}{2}$  chains radius, I must premise that, under such a condition, the line could not be made at reasonable cost, but would be of a most expensive character. In grading along many of the mountain-sides, scored as they are with deep ravines set as close together as the sharp, precipitous ridges will allow, and with cross-section slopes running up to 1 to 1, a limit of  $7\frac{1}{2}$ chain curves would mean that in such parts one-half of the line would be in tunnel and the other half on viaduct. If a grade-line were set out in surface contour on such places, it would be at once seen that the curve-limits and speed at present in vogue on the colonial railways cannot be adopted on the mountainous parts of this line without very far exceeding the limits of cost generally kept in view; but by the adoption of curves and speeds used on what are commonly known as light railways—viz., curves of a minimum of  $1\frac{1}{2}$  chains radius, and speeds of a maximum on these curves of fifteen miles per hour—this line may be made at a very small cost. My reconnaissance is equally applicable to both these systems, as the route would be the same whatever scale of construction may be adopted. I have kept in view gradients of 1 in 50 to allow of compensation in curvature, and on this basis the line is quite feasible.

I wish to make it clear at this point that I do not, in using the term "light railway," mean any reduction of the standard gauge, as I hold it to be an ascertained fact that, down to the limit of 11 chains radius of curvature, the colonial gauge will admit of suitable rolling stock travelling at the rate of fifteen miles per hour. The configuration of these ravines and dividing-spurs, while they demand the minimum radius mentioned, is particularly well suited for the use of parabolic or transition curves, which are so conducive to the comfort and safety of traffic on such railways.

#### DESCRIPTION OF THE LINE.

The line may, consequent on the configuration of the country, be divided into three sections. 1. Gisborne to Wharekopae, or to a point a short distance below the Ngatapa wool-shed. About thirty-five miles of easy grades and curves. This section calls for very little remark. It will be best located in the river-valleys of the Waipaoa, Waikohu, and Wharekopae. It would

require careful study in location to keep in view safety from floods and river encroachments. The route would touch Ormond and Karaka. About twenty-five miles of this section are common to the Gisborne-Opotiki route. A minimum of 10 chains radius may be used here, and the grades would be very easy, the level of Wharekopae being about 455 ft. above the sea, and the inter-

mediate risings and fallings short and of no account in limiting the haulage.

2. Wharekopae to Galatea, about a hundred miles of mountainous country, extreme limits of curves and grades. The section commences where the maximum grades and curvature must be used to ascend and traverse the mountainous country of Tuhoe-land. The first ascent is long and continuous, being about 1,230 ft. rise, and requiring a length of about twelve miles, which can just be obtained by grading up the hills and valleys, whence arise the southern tributaries of the river, to a saddle near the north end of Kupenga-ataramainuku. From this summit the line would grade along the north-west side of the valley, keeping on the lower spurs of the Mokonui-Aorangi Range to the Ngutuwera Gorge. This gorge is narrow and deep, and offers no serious obstruction. The rise to this place from Wharekopae saddle would not be more than 260 ft. in nine miles. From Ngutuwera the line would pass over a flat under Trig. R. 111, and thence grade round the numerous spurs and ravines of the head-waters of the Hangaroa, which above the Ngutuwera is called Waimana. An average grade of 1 in 116 for twenty-two miles would reach the Waimana-Anini saddle, 2,900 ft. This would be crossed with a moderate cutting, and the line graded down the Anini Valley to a distance sufficient to admit of grading up on the other side to the next saddle, that between the Pukukaho and Owhakaroto. This is one of the most difficult parts of the country to surmount. I had hoped to avoid a tunnel here, and left the examination of it until after my return from Gisborne, but I cannot place its elevation at less than 3,460 ft. The grade-level at Anini Viaduct would be about 2,500 ft., and the rise in six miles 620 ft., making gradelevel at the saddle 3,120 ft., or 340 ft. under the saddle. The eastern face of the ridge is very steep and precipitous; the western is less so. I did not make, for reasons before stated, any detail measurements of this ridge, but the length of tunnel may be taken as 30 chains. From this tunnel the line would descend easily to the Owhakarotu, and on to the main divide, at 88½ miles, crossing on the surface at an elevation of about 3,100 ft.

The line is now in the drainage of the Whakatane, and the course is, with generally level formation, along the middle slopes of Maungapohatu to the saddle at the head of the Waiawa and Hopuruahine Valleys. This saddle is on the main divide, which is here recrossed at nearly the same elevation, and the line, with a nearly level formation, keeps along the slopes of Te Peke, rounding into the Orangitutaetutu and out again on to the eastern slope of the Huiarau range. It could now finally recross on the level at the place crossed by the Waikaremoana Road, elevation 3,165 ft. But this would entail, in rounding into the Okahutara, and the spurs stretching from the main range into that valley, a length of about three miles and a half, which may be saved by passing on to a point about two miles and a half south-west of the road-crossing, and, at a narrow part, tunnel about 200 ft. under the ridge. The length of tunnel would be about 22 chains, but, besides saving the length as above, it would avoid much interference with the Waikaremoana Road, along the Tuakura Range, which would otherwise result.

From this point the line would wind around the spurs of the Kopainui and the Ruatahuna Streams, in the Whakatane drainage, grading down into the Mimiha to a point in that valley high enough to allow of grading out of it and into the Okahu, at 114 miles. There is a low saddle in the ridge between the valleys, estimated, by comparison with other known points, at 2,800 ft. high; but I did not move the camp up the Mimiha, and I am not so clear on this point as on the other parts of the line. This saddle is the last one on this section, and a tunnel of about 22 chains in length, and 200 ft. under the ridge, must be reckoned on. From this point the line would grade down the Okahu and Whirinaki Valleys to the entrance of the Rangitaiki Plains at about 135

There is more difficulty to be encountered in the western half of this section than in the eastern. Between Maungapohatu and Galatea the ravines are deeper, closer together, and the mountain-sides more precipitous than in the country drained by the Anini and the Hangaroa to the eastward, and the grade down the Okahu and Whirinaki is equal to the worst of it in the

number and narrowness of the ravines and the sharpness of the dividing spurs.

3. Galatea to Rotorua, forty-five miles: This section includes the plains between the Urewera Hills and the Rangitaiki, and is wholly in open country. There will be a heavy grade up to the Kaingaroa Plains of the maximum rate. There are several convenient gorges, which would allow of a surface-line being laid out with easy curves. The maximum grade will be required, to a shorter extent, in descending to the Mangakokonoku Creek, near Kakaramea, but thence into Rotorua the line will be comparatively easy, following the road route, excepting near Pakaraka, where a location more to the westward would be desirable. I have shown the route, as correctly as the circumstances will allow, on sheets Nos. 4 and 5 herewith, of the four-miles-to-the-inch maps of the Survey Department; but, from the paucity of topographical features, and the inaccurate condition of river sketches shown thereon, this must be taken as an approximation merely. I have made what I consider due allowance in length for the sinussities of location, in grading in and out of ravines. Without actually running contours in position, this cannot be more accurately determined. Appended also is a diagramatic section of the line, showing at a glance the conditions of grades and elevations as above described.

#### DESCRIPTION OF THE COUNTRY.

From Gisborne to Wharekopae the country is the alluvial of the papa and limestone of the Poverty Bay district. Papa formation is also to be traced close up to the Ngutuwera; westward of that, however, no trace of calcareous formation was observed. The rocks along the Waimana, Anini, Pukukaho, and Owhakarotu are all clay-slate of a very loose structure near the surface,

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and the ultimate fragments small. Maungapohatu is of a close and rather fine-grained sandstone, with horizontal stratification. This is the only building-stone observed in the route, and it is of fair quality. There are, on the slopes below the north-east end of the mountain, masses of loose, angular stone, from the size of a house downwards, and which, from the smooth and often perpendicular sides and sharp arrises, show the material to be fit to stand the very severe frosts and humid weather of that district. After leaving Maungapohatu, and all the way to the Galatea Plains, no rocks but those of clay-slate were seen. These are of the very loosest structure, as a rule. Some harder bands are to be found, but, from the polyhedral nature of the ultimate frag-ments, this rock is all easily excavated. From Galatea to Rotorua the country is of the pumice and rhyolite-rock formation, too well known to need any description. Nothing in the shape of rivergravel or sand was to be seen in any part of the route, and, for ballast, dependence would have to be placed on the clay-slate rock, abundance of which would arise out of the cuttings and on deposits of pumice-gravel on the Kaingaroa Plains. Machine-broken limestone would probably have to be used on Section 1. All over the forest country, underneath the surface soil, is to be found either the common small yellow pumice-gravel or a few inches of fine clean grey sand, both evidently subaerial deposits. Very little of the pumice is to be observed east of Maungapohatu,

and generally it is only in patches, but the grey sand is almost universal.

The timbers on the line are, from Ngutuwera to Maungapohatu, a distance of nearly thirty miles, principally black birch (Fagus fusca), very suitable for sleepers and bridges. From Maungapohatu to Galatea Plains the forests are of mixed tawa bush, and of little value for railway-work. Near Te Whaiti there is a valuable totara forest, which is Government property.

As regards formation, Section 1 calls for very little remark. It is the ordinary work required in alluvial plains, but much care would have to be given to guard against slips. Almost the whole of Section 2 would be in side-cutting along the slopes of hills and mountains, many of which are as steep as  $1\frac{1}{2}$  to 1. The full width of formation must be in the solid, and in many places the rock will not stand steeper than 1 to 1, although, excepting in the upper strata of sand and soil,  $\frac{1}{2}$  to 1 may be taken as the rock-batter over three-fourths of the length. In many places the spurs are so narrow between the ravines that, even with  $1\frac{1}{2}$  chains minimum of curvature, short tunnels of 30 to 40 yards in length must be put in, but, without setting out the line, the number of these cannot be determined. On Section 3 little need be said, excepting that much care and judgment would be necessary in locating the line, and forming through the hot springs and pools of Kakaramea and near Whakarewarewa.

Bridges.—As a whole, the route is particularly light in bridge-work; there are no extensive viaducts, anything worthy of the name being almost confined to Section 1. I append a tabulated list of bridges, which, I believe, will include all waterways above 10 ft. span, and from which a

sufficiently close estimate may be made.

#### GISBORNE-OPOTIKI ROUTE.

On the completion of the reconnaissance as above described, and in pursuance of instructions in your memorandum of the 21st February, I left for Opotiki to take up the work of exploration for

a line of railway from Gisborne to that place.

This route has, from an exploration point of view, great advantages over that through the Urewera forests. There is a road right through, about half of which is bridle-track, and the rest fit for wheel traffic. There are places of public accommodation at Poututu (twenty-seven miles) and Motu (fifty-seven miles). Thence northwards to Opotiki, 112 miles from Gisborne, I was greatly indebted to the hospitality and great kindness of the only two settlers in the bush for accommodation, and breaking what would otherwise and in the circumstances have been a very long journey. From near the Motu Bridge, fifty-two miles from Opotiki southwards, the country is settled, and the original bush may be said to be cleared. The main ridge of the country is about ten miles south of the Motu Township, and is there low and flat compared with the Huiarau saddles. It is very little higher than the Mamaku summit, on the Auckland and Rotorua Railway, and from this point southwards the country is clear, and I was enabled to do more in four days than I could accomplish in a month at Maungapohatu. In traversing the bridle-track north of Motu, one is enabled to closely see and get familiar with ravines and spurs, in all respects similar to those through which the railway would have to pass. And, to any one experienced in laying out railways in broken country, it is conclusively evident that a limit of  $7\frac{1}{2}$  or even 5 chains radius would be prohibitory.

DESCRIPTION OF THE LINE.

As mentioned in the first part of this report, a length of about twenty-five miles out from Gisborne is common to both routes. Starting, then, from the point of divergence, about three miles below the confluence of the Wharekopae and the Waikohu, the line would keep up the most bent of the Weikohu to Boutstu. north-east bank of the Walkohu to Poututu. At or near that place the rise to the summit would commence, and preferably a regular and continuous grade, equivalent to an average of 1 in 50, excepting where necessarily broken for stations, would be continued round the spurs and slopes of the Waikohu into the valley of the Rangiriri to a crossing-place on that stream, thence back along the dividing ridge between the Rangiriri and the Kokokupara round the southern end of this ridge, and on to the saddle of the main range, which is here only about 2,000 ft. high. The line might cross the divide on the surface, but it would be more convenient to make a 20 ft. cutting and pass the road over the railway.

On crossing the saddle the line is in the Motu drainage, and descends to the Motu Township with a grade of 1 in 102; but, although the Motu is a Bay of Plenty river, there is no possibility of a suitable route being found down its valley. It is nearly seventy miles to the sea, and twenty-five more along the beach to Opotiki. On the other hand, the road route from Motu to Opotiki is, for our purposes, also impracticable, passing over three high ridges, with long and tortuous ravines

between.

Careful consideration convinced me that the valley of the Otara, which leads from near Motu to Opotiki in a comparatively direct course, offered the fewest objections and certainly the shortest distance, and I determined to explore and examine in some detail a route leading from Motu to the nearest head of the Pakihi, which, by its junction with the Waiti, forms the Otara. I therefore moved my camp to Motu, and explored the ridge to the west of the valley, eventually fixing on the Hiwi Marie saddle as the most suitable crossing-place.

This saddle is about 2,180 ft. above the sea, and it would be quite possible to grade upwards

from the Motu and top this ridge without a tunnel; but, as that would entail two miles more of length of line, I do not advise it. The tunnel, of which I append a section, is only 14.2 chains long, and it saves a height of 210 ft. The grade from the Motu to this saddle is 1 in 56.

The down-grade towards Opotiki is of very much the same character as Section 2 of the

Wharekopae-Ruatahuna route; some parts are very precipitous, and the branch ravines close and narrow, as before described. This down-grade is equivalent to an average of 1 in 60 for a length of twenty miles from Hiwi Marie to Parekowhai. The total length of the line I estimate at ninetyeight miles, being fourteen miles shorter than the Gisborne-Opotiki Road. For comparison with the other route, the length from Opotiki to Rotorua may be taken as eighty-five miles, making 183 miles viá Opotiki as against 180 by the Urewera country.

The route is shown on the accompanying sheet No. 5 of the published maps, along with the Urewera route. The same conditions as to curvature exist on this line as described for the other, and apply particularly to the length between Poututu to the entrance on the Opotiki flats, a

distance of about sixty miles.

A diagramatic section appended shows a most favourable comparison, from an engineering point of view, with the other route. The summit height is 1,000 ft. lower, and there are only 14 chains of tunnelling through main ridges, as against 74 chains in the other case.

The country from Gisborne right up to the summit, at forty-eight miles, is of papa and limestone formation. The papa slopes seem here to be, in a degree more than usual, given to slipping. This extends as far up as the crossing of the Rangiriri; above that, and to the summit, the ground is more stable, and the harder limestone is found. Although no calcareous formation was observed north of the main summit, the country there seems to be as rich in grass as on the southern side. Motu the valley attains a width of several miles, and there is scope for large settlement west of the river and up its valley to the southward. The bush is of the ordinary mixed character, principally tawa. The soil is chocolate-coloured, heavy, and moist. The rocks of Hiwi Marie ridge and down the Pakihi and Otara are clay-slate, loose on the surface, and in all respects similar to those in the Okahu and Whirinaki Valleys on the other route.

Comparing the amount of settled country traversed by the two routes, the existing traffic, and the possibilities of future settlement, there seems to be as great a preponderance in favour of the

Opotiki route on commercial and social grounds as there is in engineering.

Appended is a tabulated list of bridges on this route, including, so far as I know, all waterways

requiring more than 10 ft. span.

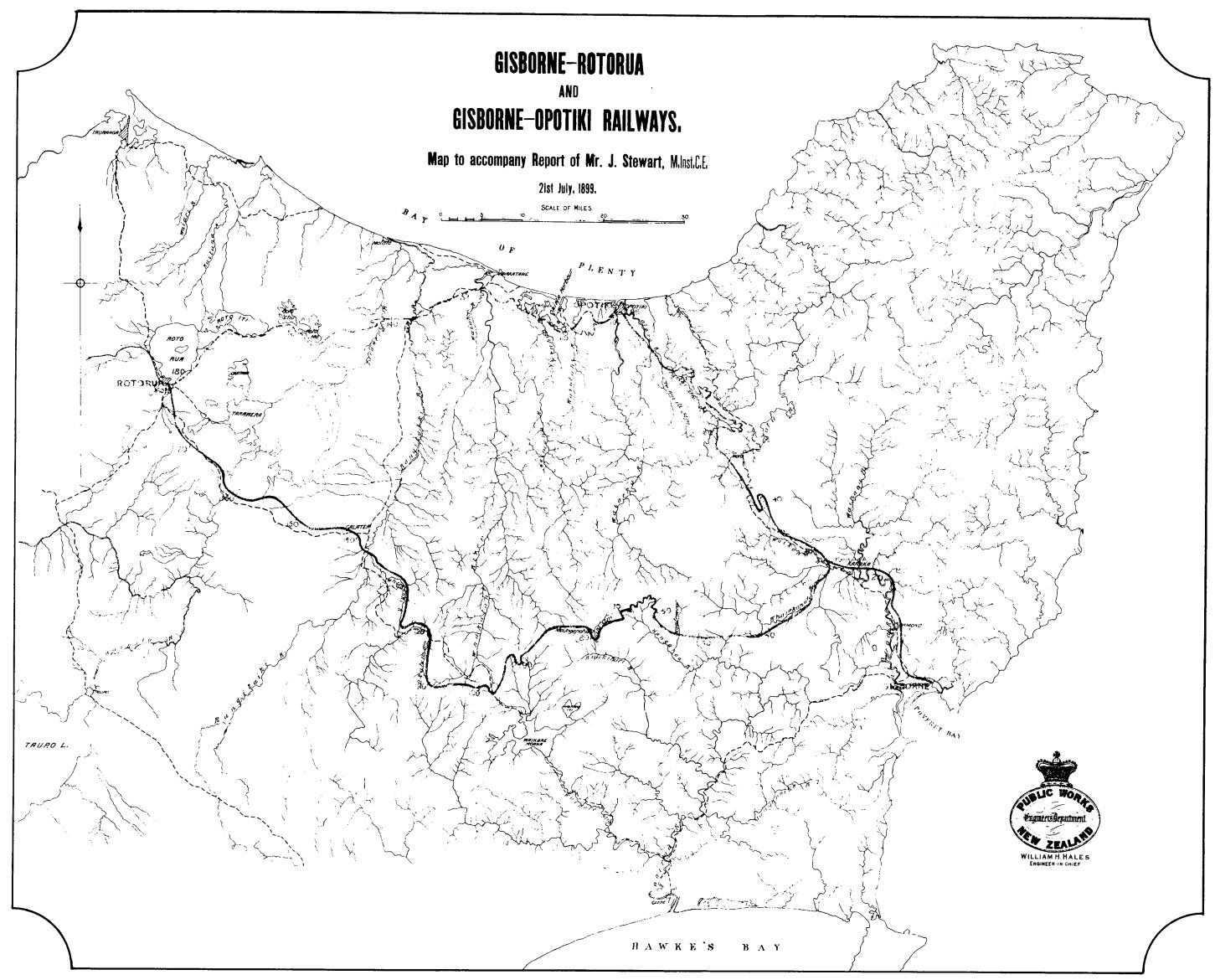
Trusting the above particulars, as the result of my investigations, will meet the present requirements of the Government. I have, &c.,

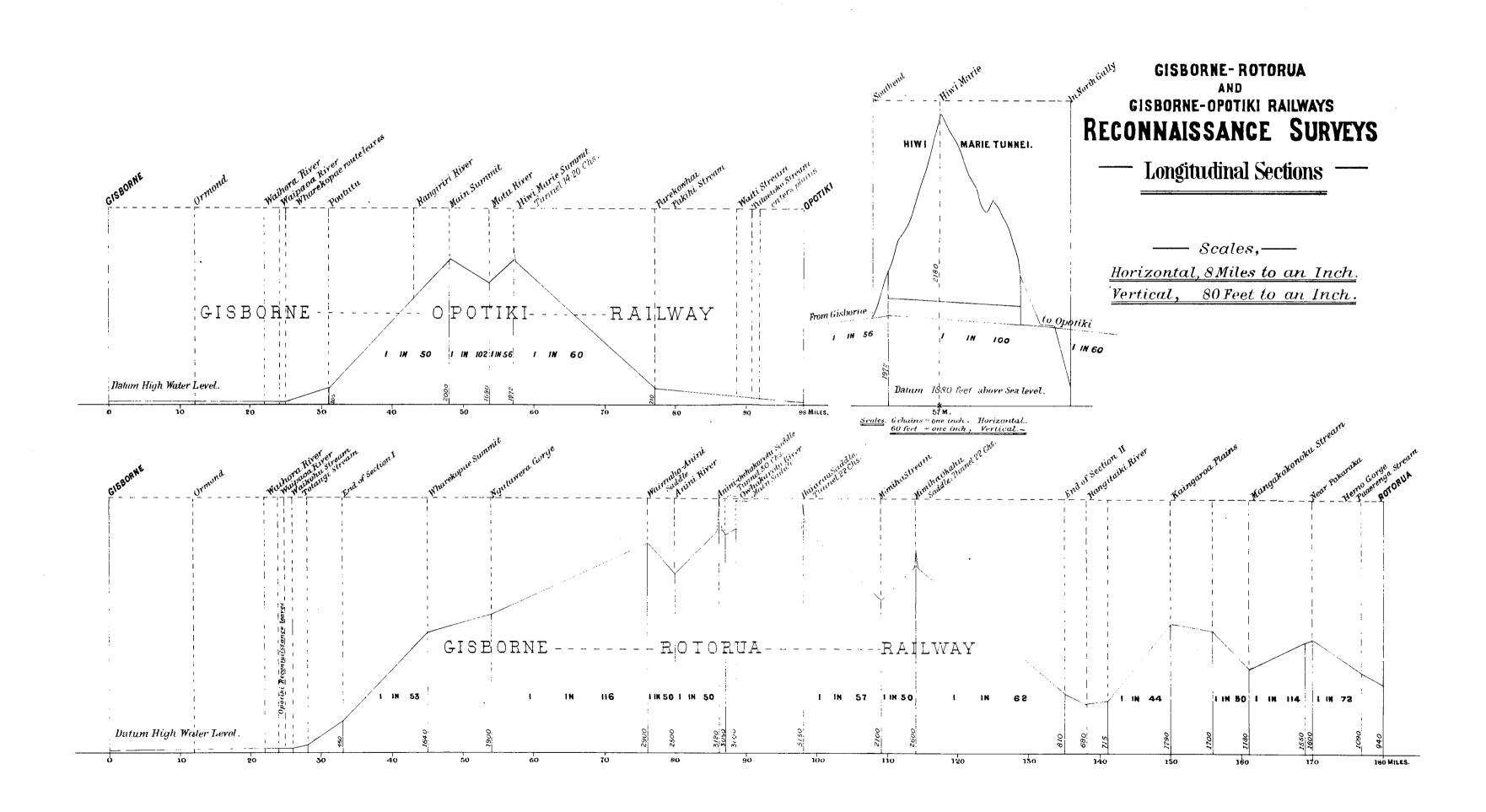
The Under-Secretary, Public Works.

JAMES STEWART, M.Inst.C.E.

Abstract of Bridges above 10 ft. of Waterway.—Wharekopae-Ruatahuna Route.

					Sp	ans.	Total Length.		
Bridges.					No.	Length.	Beam.	Truss.	
						Ft.	Ft.	Ft.	
Sundry, eight			•••	• • •	24	20	480	• • • • • • • • • • • • • • • • • • • •	
" four		•••	•••		24	20	480		
Waipaoa		• • •	• • •		6	80	•••	480	
_	•••				6	20	120		
Waikohu	•••			•••	<b>4</b> .	60	•••	240	
"	• • •				4	20	80		
<b>l</b> otangi					1 \	40		40	
"	• • •				<b>2</b>	20	40		
Ngutuwera			,		$rac{2}{3}$	80		240	
,,		• • •			2	60		120	
,,				•••	4	40		160	
Anini					1	80		80	
"			•••		6	20	120		
)whakarotu		••	•••		1	40		40	
					4	20	80	•••	
Mimiĥa					$\frac{4}{3}$	20	60		
Rangitaiki		•••			1	80	•••	80	
"	•••	•••	•••			60	• • •	120	
"	•••	•••	• • •		2	40	•••	80	
Langakokonoki		•••			$egin{array}{c} 2 \ 2 \ 3 \end{array}$	20	60		
n Waipa Valle	v	•••	•••		9	20	180	• • • • • • • • • • • • • • • • • • • •	
Puarenga	<i>J</i>	•••			6	20	120		
				<b>!</b>	Tota	als	1,820	1,680	





Abstract of Bridges above 10 ft. of Waterway.—Gisborne-Opotiki Route.

					Sı	oans.	ns. Total Leng	
	Bridges.				No.	Length.	Beam.	Truss.
				!		Ft.	Ft.	Ft.
Sundry, eight		•••			24	20	480	
" four		• • •			24	20	480	
Waipaoa					6	80		480
,,					6	20	120	
Sundry, eight					24	20	480	
Rangiriri					1	40	•••	40
"					$\frac{4}{1}$	20	80	
Motu			•••	• • •		80	•••	80
"					10	20	200	
Pakihi					1	60		60
"					4	20	80	
Waiti				•••	1	60	•••	60
. "		•••		• • •	4	20	80	
$\Gamma$ utaetoko		•••			1	60	•••	60
"	•••	•••	• • •	•••	4	20	80	•••
					Tot	als	2,080	780

#### The Under-Secretary for Public Works to Mr. James Stewart.

(Telegram.) Wellington, 23rd August, 1899. Could you kindly wire rough approximate estimate of total cost of Gisborne-Rotorua and Gisborne-Opotiki Railways respectively, including rails, sleepers, stations, rolling-stock, and everything complete. Also wire separately approximate cost per mile of same railways in sections, the character of line to be estimated for being that recommended in your recent report. Also, have you any knowledge of country between Opotiki and Rotorua? If so, could you send brief description by mail, and wire in meantime rough approximate estimate of cost of line between those points? Mark your reply "Collect."

James Stewart, Esq., C.E., Auckland.

H. J. H. BLOW.

#### Mr. James Stewart to the Under-Secretary for Public Works.

(Telegram.)

Auckland, 23rd August, 1899.

Telegram re Gisborne Railways received. Will compile and wire rough estimates within a day or two; further report on country between Opotiki and Rotorua by mail.

The Under-Secretary, Public Works, Wellington.

JAMES STEWART.

## Mr. James Stewart to the Under-Secretary for Public Works.

Auckland, 26th August, 1899.

ROUGH approximate estimate of cost of Gisborne-Rotorua and Gisborne-Opotiki Railways. Firstly, Gisborne-Rotorua—Earth and rock formation, £296,500; tunnels, £40,700; bridges and culverts, £26,290; fencing, gates, and level crossings, £30,090; permanent way, £207,000; stations, plate-layers' cottages, and water supplies, £46,310; rolling-stock, £57,400; total, £704,290. Cost per mile in sections (exclusive of rolling-stock). Section 1, 35 miles (curve, minimum 10 chains), £3,171. Section 2 (curve, minimum 1½ chains), 100 miles, £4,163. Section 3 (curve, minimum 10 chains), £2,657. Secondly, Gisborne-Opotiki Railway—Earth and rock formation, £176,055; tunnel, £7,800; bridges and culverts, £17,750; fencing, gates, and level crossings, £17,003; permanent way, £112,700; stations, platelayers' cottages, and water supplies, £34,800; rolling-stock, £57,400; total, £423,508. Cost per mile in sections, exclusive of rolling-stock; Section 1, Gisborne to Poututu, 31 miles, minimum curves 10 chains, £3,223. Section 2, Poututu to Opotiki, 67 miles, minimum curves 1½ chains, £3,973. In above estimate rails are taken as 40 lb. steel; fastenings, standard; gauge, standard; sleepers, ten per rail throughout, but somewhat lighter than standard; rolling-stock, bogie throughout; stations, standard, and include workshops for light repairs; speed on Section 2, 15 miles per hour.

The Under-Secretary, Public Works, Wellington.

JAMES STEWART.

#### MEMORANDUM for the Under-Secretary for Public Works.

Auckland, 28th August, 1899.

Opotiki-Rotorua Country.

REGARDING the continuation of the Gisborne-Opotiki reconnaissance survey towards Rotorua, my information does not enable me to speak with much certainty on two very important heads—viz., the amount and character of maximum grading, and the extent and class of the necessary

bridging.

A ridge of hills of moderate height divides the valley of the Waioeka, the main river of the Opotiki Plains, from that of the Waiotahi. This ridge would probably not offer much difficulty. From the Waiotahi, passing inland of the Ohiwa Harbour, and to the Nukuhou Valley, the country is rather broken, and I am unable to say what minimum of curvature might be necessary. From Nukuhou to Whakatane the same broken character of the country continues, the hills stretching down from the tuhoe-land at Waimana to the sea at Whakatane being about 400 ft. in height. I am not aware what facilities may exist for grading down into the extensive plains which extend between the Whakatane and the Tarawera Rivers, but no doubt the matter is practicable enough, and very probably easy compared with some parts of the route between Opotiki and Gisborne.

The Whakatane-Rangitaiki Plains extend crosswise a distance of about fourteen miles, and end on the west bank of the Tarawera River. There the country rises up like a wall, as seen from a distance, and forms the broken forest table-land which extends inland from Matata, and is continuous through the lake-country to the Kaingaroa Plains. Here the grading will require much exploration, as the total rise from the plains to the forest saddle above Rotoma is over 1,000 ft., requiring a length of ten miles to overcome it. From Rotoma and Rotoehu to Rotorua the country is not difficult, and some of it particularly easy. The total distance, Opotiki to Rotorua, may be put at eighty-five miles, the distance as the crow flies being fifty-seven miles.

The bridging on the eastern half of this route would be rather extensive. The rivers are the Waioeka, Waiotahi, Nukuhou, Whakatane, Waioho, Rangitaiki, and Tarawera. Three of these, the Waioeka, Whakatane, and Rangitaiki, drain an immense extent of very mountainous country, and are subject to very heavy floods, and carefully considered flood-openings would be necessary in addition to the bridges, in a line crossing these valleys. From Tarawera to Rotorua the

bridge-work will be of a very slight and easy character.

It will be seen that a large extent of the route from Opotiki to the Tarawera is across rich alluvial plains, about half of which are closely settled, and form important agricultural districts. Of the ridges and hills between these valleys I can only speak of the Whakatane Range, and, so far as my observation extends, these are of clay-slate, but of considerably closer and harder nature than those I observed in the interior explorations. The country from Tarawera to Rotorua is wholly of soft rhyolitic rocks and gravels.

There is not a large extent of bush on this route. It exists in rounding the Ohiwa Harbour to the Whakatane Hills, and from the rise west of the Tarawera to Tapuwaeharuru on Rotoiti. About three or four miles more extend between Rotoiti and Tikitere. With these exceptions the

country is open.

Considering the great extent of easy work on this line of country, amounting probably to three-fourths of the whole length, I am inclined to think the large amount of bridging may be balanced in cost by the easier formation in earthworks, and that the average cost per mile may be no more than that I have estimated for Gisborne-Opotiki. Of course, no more rolling-stock would be required than what I have estimated for that other part of the route—which is a very full estimate, and, you will observe, is the same as for the Urewera route of nearly twice the length, but which would not have half the traffic.

The Under-Secretary for Public Works.

JAMES STEWART, M. Inst. C.E.

The Under-Secretary for Public Works to Mr. James Stewart.

(Telegram.) Wellington, 31st August, 1899.

PLEASE send by first post lithograph map, scale four miles to an inch if possible, showing possible route Opotiki to Rotorua, to illustrate your report of the 28th instant.

James Stewart, Esq., M.I.C.E., Auckland. H. J. H. Blow.

The Under-Secretary for Pullic Works to Mr. James Stewart.

(Telegram.)

Wellington, 31st August, 1899.
Could you wire rough approximate estimate of probable cost of line between Opotiki and Rotorua, so as to enable comparison to be made as regards total cost of both routes?

James Stewart, Esq., C.E., Auckland.

H. J. H. Blow.

## Mr. James Stewart to the Under-Secretary for Public Works.

(Telegram.)

Auckland, 1st September, 1899.

Rough approximate cost of formation and permanent-way, Opotiki—Rotorua, may be taken as that of Section 1, Gisborne-Opotiki—say, £3,220 per mile, or for eighty-five miles £273,700; no rolling-stock to be added. Have posted maps showing approximate route as near as I can make it out in absence of detail examination of salient points.

The Under-Secretary, Public Works, Wellington.

JAMES STEWART.

MEMORANDUM for the Under-Secretary for Public Works.

Auckland, 1st September, 1899.

Opotiki-Rotorua Reconnaissance.

HEREWITH I send you (under separate cover) sheets Nos. 4 and 5 of the published four-mile-scale maps. On these I have shown, as requested in your telegram of yesterday's date, a possible route, in so far as my present knowledge extends, of the extension of my late Gisborne-Opotiki exploration to Rotorua.

I would have accompanied my report of 28th ultimo with this delineation had I had sufficient detail knowledge of the hills and broken country to be traversed to satisfy myself as regards even an approximation; but, as you deem it necessary, I have done my best to pick out a feasible route.

It will be gathered from my report that the location of the line between the Waioeka and Waiotahi, the rounding of the Ohiwa Harbour, the crossing of the Tarawera to the plateau of the lake-country, are the points on which I had no detail knowledge. I have drawn the line after a close study of the one-mile-to-the-inch section maps, but it is quite possible that considerable variations, even in the general location, may be necessary to get the proper grades and avoid expense.

James Stewart.

## APPENDIX J.

#### WELLINGTON-NAPIER RAILWAY.

REPORT ON ALTERNATIVE ROUTES FOR DEVIATION OF LINE IN ORDER TO AVOID THE FELL INCLINE OVER THE RIMUTAKA, BY MR. P. S. HAY, M.A., M.Inst.C.E.

Mr. P. S. HAY to the Engineer-in-Chief.

Sir,— Public Works Office, Wellington, 19th August, 1899.

I have the honour to make the following report on the various possible routes for the proposed deviation of the railway-line over the Rimutaka, to avoid the steep gradients and sharp curvature between the Upper Hutt and the Summit Station and the Fell Incline. This report is based on the results of Mr. J. H. Dobson's surveys and explorations, and on my own inspections of the country through which the proposed deviations viá the Coach-road Saddle and the Tauherenikau would pass.

To avoid the Fell Incline a trial line was surveyed by Mr. Dobson, starting from a point about three-quarters of a mile beyond Kaitoke Station and ending at Featherston. This line follows the coach-road gullies; it has been levelled and cross-sections have been taken, so that the quantities and estimates may be taken as correct, except in so far as they might be altered by minor deviations of the finally located line. From about the two-mile peg on the above line a traverse has been run viā the Tauherenikau River to Woodside Station, but only aneroid levels have as yet been

taken along this route to determine the heights of the principal points.

To avoid the 1-in-35 grades and numerous 5-chain curves on the existing line from the Upper Hutt to Kaitoke, a trial traverse with aneroid levels has been run from the Upper Hutt Station along the slopes of the Hutt Valley and through a low saddle near Kaitoke into the Pukaratahi Valley, to join the Road Saddle and Tauherenikau routes near the Pukaratahi River; this is No. 1 line on the plan. A variation of this line, No. 2 on plan, has been run to get flatter grades and a crossing of Mungaroa Valley without a viaduct. These lines do not utilise any portion of the existing line. To ascertain if any portions of the existing line could be advantageously used, No. 3 trial line was run, and a variation of it, No. 4. The ruling gradient adopted in running all these lines was 1 in 60, and the sharpest curve allowed for was 10-chains radius. The gorge of the Hutt River was also examined to ascertain if it was possible to take the line viā the Hutt River and Pukaratahi River to join the Tauherenikau or Road Saddle routes.

In addition to the above, Mr. Dobson examined a suggested route starting from the existing line at Ladle Bend and crossing the Rimutaka by Lucena's Pass. This he reports impracticable. He also examined a suggested route starting from the Mungaroa flats, and thence through the lowest country to Cross Creek and Pigeon Bush; this he reports impracticable, except with a five-miles tunnel. He also examined the proposed route via the Wainui-o-mata, Orongaronga, and Wairongomai, and confirmed Mr. Rochfort's condemnation of it. The length of line to be constructed by this route would not be less than thirty-four miles, of which over twenty miles would be on 1-in-40 gradient. It is evidently not a promising route, though it is urged in its favour that it would be better for settlement than any of the other routes, and would not cut off any of the

country now served by the railway.

The trial line from Kaitoke to Featherston via the Road Saddle shows that a line can be got of the following general character: Grades—Kaitoke to the Summit Tunnel, 1 in 55; sharpest curve on this gradient, 10-chains radius; Summit level, 995 ft. above datum (present Summit 1,244 ft. above datum); length of Summit tunnel, 143 chains; grade in tunnel, 1 in 60, falling towards Featherston (in the final location this grade would be put all on the straight, a flatter grade being put where the curve occurs); grade tunnel to Featherston, 1 in 40; sharpest curve on this grade, 10-chains radius. In addition to the tunnel 143 chains long, the other works of any note are a bridge across the Pakuratahi River, also bridges over the Rimutaka, Tidswell's, Beal's,

and Cave's Creeks. There are no particularly heavy earthworks. The line joins the existing railway about 23 chains south of the Featherston Station. Its length is about 9 miles 66 chains, and the estimated cost is £181,200.

To get a grade of 1 in 55, with perhaps somewhat sharper curves than 10-chains radius, it would be necessary to lengthen the deviation and join the existing railway about three-quarters of a mile beyond the Featherston Station. This would increase the cost of this deviation to about

£194,000 as estimated by Mr. Dobson, but I think this amount is rather little.

The grades obtainable on either of the above lines do not compare favourably with those obtainable by the Tauherenikau route, and I have examined the country between Abbott's Creek and Fernside and Woodside Stations to ascertain approximately what grades could be got by running the line either to Fernside Station or to Woodside Station—in this latter case crossing the Tauherenikau River at as high a level as possible in order to get the flattest possible grade.

If a line were constructed from the Road Saddle Tunnel down the left side of Abbott's Creek,

If a line were constructed from the Road Saddle Tunnel down the left side of Abbott's Creek, and along the hillsides beyond Featherston to Fernside Station, the continuous grade obtainable, assuming the grade through the tunnel was 1 in 70 on the straight, would be about 1 in 75; with the grades where on curves flattened proportionately to the curvature, this line would probably give a working gradient no worse than 1 in 66 on the straight, depending on the relative amount of straight to curved line in the section. The works would be much heavier than for the 1-in-55 line; in addition to larger bridges or viaducts being required for the tributaries of Abbott's Creek, a viaduct of about 150 ft. in height and of considerable length would be required over Boar Bush Creek behind Featherston. On the hillsides to the south of this creek there is a large slip, or, rather, dislocation of the ground, reaching up to about the grade-level; but I do not know that this would be an important factor, as probably a moderate cutting would take the line back into solid ground. The cost of this alternative deviation, Kaitoke to Fernside, may be taken as £260,000. Better grades than those on the trial line would be required between Kaitoke and the Summit Tunnel to get approximately balanced grades for the probable up- and down-country traffic. Though not quite so good, this route approaches very nearly the Tauherenikau route as regards grades.

If, as another alternative, a line were constructed like the preceding from the Road Summit Tunnel, down the hillsides on the left bank of Abbott's Creek, then along the hillsides between Featherston and the Tauherenikau River, crossing the river at a level of 70 ft. to 80 ft. above the level of Woodside Station, and then running along the terraces and flats to Woodside, the continuous grade obtainable, assuming that the grade in the Summit Tunnel is 1 in 90 on the straight, would be With the grades on the curves suitably and proportionately flattened, according to the sharpness of the curve, it is probable that a working gradient of 1 in 82, or perhaps better, could be obtained by careful location of the line, depending on the relative lengths of curved and straight line on the section between the Summit Tunnel and the Tauherenikau River crossing. The bridges over Tidswell's Creek, Beal's Creek, Cave's Creek would become viaducts of some size, and the viaduct required to cross Boar Bush Creek would be 250 ft. high, though the line could, I think, be run up the gully to avoid the viaduct; also there would be either a smaller viaduct or a high bank required for a gully about halfway between Featherston and the Tauherenikau. There would likely be some short tunnels required at some of the gullies; the bridges or viaducts might be considerably reduced by these tunnels, but I have not assumed that this would be so in the approximate estimate given below. The worst part of the country along which this alternative route runs is, I think, that around the sides of Cave's Creek. The hillsides are much more favourable, I think, for railway-construction than those along which it is proposed to construct some portions of the Midland Railway, and more so than some other places where railways have been already constructed in New Zealand. The best grades from Woodside to Kaitoke are obtainable by this route, and the worst parts of the line would be safer than the worst parts along the Tauherenikau route. The cost of construction from Pakuratahi to Woodside would be very heavy—say, £350,000. In this I have included a sum of £25,000 for short tunnels in addition to the cost of the Summit Tunnel, and £93,000 for bridges and viaducts. There would be some difficulty in getting grades from the Upper Hutt to the Summit sufficiently flat to avoid the use of assistant engines with the present ratio of up- to down-country traffic on a line with so flat a gradient as this one between Woodside and the Summit Tunnel. A possible variation of this route would be to run up Boar Bush Gully and tunnel through to Cave's Creek watershed; this would make the grade steeper, perhaps not much better than the grade viá the Tauherenikau; but I have no reliable data for determining the grades or the amount of tunnelling required.

The line viá the Tauherenikau would branch off from the Abbott's Creek route at a point about

The line vid the Tauherenikau would branch off from the Abbott's Creek route at a point about two miles and three-quarters beyond Kaitoke. After crossing the Rimutaka Creek by a small bridge this line runs for a little over two miles along the spurs and intervening flats, until the tunnel through the main range is reached. This length of line is fairly easy, and should only require moderate banks and cuttings, and a number of culverts. If put on the grade suggested by Mr. Dobson, the tunnel would be about 70 chains long. It will probably be through slate rock, and will require to be lined throughout. If, however, the tunnel grade is made to fall instead of rise to the south end, the saving in rise and fall, curvature, and length of line between the Pakuratahi and the tunnel will be likely to justify the lengthening of the tunnel sufficiently to give an easy up-grade from the south to the north end; this will also be of considerable advantage in constructing the tunnel. At the north end there is a large creek, which will be likely to give trouble similar to that experienced at the ends of the Spooner's Range Tunnel. The approach cutting at this end will be long, through a piece of comparatively flat ground; the upper end of this flat forms the virtual summit for this route. Beyond the tunnel the line will run down the right bank of a tributary of the Tauherenikau to its junction with the river. At the end of the first mile the grade is not very high above the creek, but for the last three-quarters of a mile or so the creek falls

rapidly, and at its junction with the river the grade-line is about 180 ft. above the river-bed. Along this last section the creek is cutting into its banks, and there are a number of slips, one or two of some size: in one case what appears to be an old slip, overgrown with small scrub, reaches above the grade-line; in all the other cases the upper edges of the creek-banks where cut away and fallen in are well below the grade-line. Judging from the slopes of the hillsides, the works required along the tributary to form a railway-line would not be very heavy for the first mile, but would be somewhat heavy for the last three-quarters of a mile or so. Cuttings, banks, and culverts, with perhaps one or two small bridges, would be the works required.

and culverts, with perhaps one or two small bridges, would be the works required.

After leaving the tributary creek the line would follow the right bank of the Tauherenikau for about four miles and a half. There will be some heavy work on this section, especially on the first three miles. The cuttings will be heavy; some short tunnels at bluffs and bridges over tributary creeks will be required. The works would be lighter on the last mile and a half as the gorge opens out more, and generally the slopes of the hillsides seem not to be so steep. About three miles from Woodside Station the line would cross the Tauherenikau River either on a bridge or on a viaduct, according to the grade adopted, and would then run on the terraces or on the hillsides, as

the grade may require.

The continuous grade obtainable from Woodside to the tunnel will vary from 1 in 60 to about 1 in 81, according as the grade begins near the crossing of the river or near Woodside Station. When the grades are suitably flattened on the curves in proportion to their radius, I think it is probable that a ruling grade not worse than 1 in 70 on the straight can be got from Woodside to the tunnel. The corresponding ruling grade for the proposed 1-in-60 line would be about 1 in 56. The volume of the present traffic fully justifies the adoption of the 1-in-70 grade, and if a new line is worth making the best obtainable grade should be adopted. The 1-in-70 grade would, of course, be a little more costly, owing to the line having to run for some distance on the hillsides after crossing the river instead of on the flats; the viaduct across the river should not cost much more, if anything more, than the tunnel, cuttings, and bridge that would be required for the line with the steeper grade. Against this extra cost it will be a distinct advantage to have the gradeline as high above the river as it can be got in the lower length of the tributary creek and the upper two miles or so of the gorge. The additional height gained by the 1-in-70 grade on these sections will be from 30 ft. to 70 ft., and will give a safer if not a cheaper line.

The hills are of slate along the tributary creek and the Tauherenikau, and where it is exposed to the atmosphere it does not seem to be of a very stable character. I only saw some small slips on the banks of the Tauherenikau, along which the proposed line would run. These at present are not of any great moment. The line will avoid the large slip just above Buck's house, which I take to be the one Mr. Rochfort refers to in his report. The occurrence of a slip as large as this on the line after it was made would necessitate a heavy expenditure in making a tunnel to avoid it. The cuttings in this slate rock will, I think, weather considerably, and all tunnels will have to be lined throughout. Until, however, the grade-line is defined along the hillside, and the character of the works approximately determined, it will not be possible to make any very definite statements as to the probable stability of the works that will be required to form a railway-line down the Tauherenikau for the first three miles, or as to their probable extent and cost.

Woodside, being the highest point on the existing line between the Waiohine and Tauherenikan Rivers, is the proper ending-point for the deviation. Better grades than the 1 in 70 on the straight could only be got by keeping the line on the hillsides and crossing the Waiohine at a higher level than at present. The Tauherenikau Valley does not afford facilities for doing this except at great cost.

The above-described deviations do not cut out the steep gradients and numerous curves of only 5-chains radius between the Upper Hutt and Kaitoke. This will best be accomplished,

I think, by a combination of No. 1 and No. 3 trial lines, described below.

No. I trial line starts from the Upper Hutt Station, and runs for about a mile over the flats; then it rises for about six miles on a 1-in-60 gradient, broken by a short length of 1-in-550 grade. The Mungaroa Stream and Valley would be crossed by a long viaduct, from 50 ft. to 140 ft. high. The line is on steep sideling ground for a short distance south of the Mungaroa Stream, and also on steep sideling ground from Mungaroa to a point opposite Kaitoke, seven miles from the Upper Hutt, where it passes over a low saddle requiring a tunnel at least 20 chains long. From the saddle the line runs through easy country to join the Kaitoke-Featherston trial line near the Pakuratahi, the length from the Upper Hutt to the Pakuratahi crossing being about nine miles. The estimated cost of this line is, say, £111,000, in round figures, for the nine miles. No. 2 line is an alternative to the lower portion of No. 1 line, but it increases the length by a mile and a quarter, while it is estimated that the cost of construction would only be lessened by £5,000 to £6,000; this is too small a saving to justify the increased length, except the extra length were required for the purpose of getting a flatter ruling grade to meet possible traffic requirements.

No. 1 trial line is quite independent of the existing line; but No. 3 line was run to determine how much of the existing line between the Upper Hutt to Kaitoke could be made use of. This line begins to rise on the hillside immediately after leaving the Upper Hutt Station, and joins the existing line just south of the Mungaroa Railway-station. A short length of the line and the station would be utilised. The line leaves the existing railway about 15 chains beyond the Mungaroa Station, and joins it again about a quarter of a mile south of the Kaitoke Station. The length of new line required is eight miles and a quarter, the estimated cost of which is £105,000. No. 4 line is an alternative of part of No. 3 line; it uses a portion of No. 2 line; it lengthens No. 3 line by about one mile, at an estimated saving in cost of £5,000, which is too little to justify the additional length.

The levels taken and the examination made show that the Hutt Gorge below the junction of the Pakuratahi is very rough, and it is only possible to take a railway-line up the gorge at great cost.

The extra length puts this route out of the question for any line going through the Road Saddle. For the Tauherenikau route a good grade could be got from the Upper Hutt to the Summit Tunnel. There would be about two miles and a half of very rough heavy work required in the Hutt and Pakuratahi Gorges, and a high viaduct over the Pakuratahi River; the line would run at a considerable distance from the trial line run from the Pakuratahi to the Tauherenikau River, and pass through the range by a tunnel most likely at some distance from the tunnel-site as surveyed. The only advantage offered by this route is a uniform grade from the Upper Hutt to the Summit; but the cost to get a safe line up the Hutt Gorge would be so great that it would be better to get whatever improvements in grades that may be deemed necessary by lengthening the tunnel through the saddle opposite Kaitoke.

The working gradients stated in each case make sufficient allowance for lengths of level required for passing-places. In the case of the up-grade on the Tauherenikau route—Woodside to the tunnel—two passing-places are allowed for. These will very considerably increase the trafficcapacity of the line; they will hardly ever be likely to be required as stations, as the settlement in the valley must always be small or nil under existing conditions. The passing-places cause a considerable steepening of the ruling working grade, which will spoil the line if ever a double line is required to be made, as a double line would probably be made with continuous grades from Woodside to the Summit Tunnel. A continuous working grade of 1 in 73 from Woodside to the tunnel would be sufficient for a much greater traffic than the present; and it is a question to be settled whether it would not be the better course to omit these passing-places if the line is made by this route. The passing-places are shown at approximately equal distances apart between Woodside and Kaitoke, and making the Mungaroa Station equidistant between Upper Hutt and Kaitoke put it on perhaps a bad site. Two passing-places are shown on the Road Saddle-Woodside route; one would serve as a station for the Featherston traffic, the other would be merely a passing-station.

It would be necessary, in order to avoid, if possible, any necessity to use assistant engines, to get sufficiently flat grades from the Upper Hutt to the Summit Tunnel on the deviation line For the ratio of up- to down-country traffic given in the General Manager's memorandum (attached) the grades required for the Tauherenikau route would be 1 in 64 on the straight; for the Road Saddle-Woodside route, 1 in 74 on the straight; and for the route ending at Fernside Station, 1 in 60 on the straight. Purely passenger traffic would require equal grades both ways, so would heavy excursion traffic to the Wairarapa. There will be some difficulty experienced in getting the 1-in-64 grade from the Upper Hutt to the Kaitoke Tunnel, and still more in getting the 1-in-74

grade without unduly lengthening the line or lengthening the Kaitoke Tunnel.

I think the choice of routes for the deviation will be found to lie between (1) a line from the Upper Hutt through Kaitoke Saddle, following somewhat closely the first two miles of No. 3 line and the last seven miles of No. 1 line so as to get a uniform working grade, combined with the Tauherenikau route, with 1-in-70 grades on the straight; and (2) a line with suitable grades between the Upper Hutt and Kaitoke Saddle, combined with the Road Saddle-Woodside route, with 1-in-82 grades on the straight. The only objection to this latter route is its much greater probable cost.

It would be possible to adopt either of these alternatives, and for the present, if it is thought advisable, only construct a section of the permanent deviation from about the Pakuratahi River crossing to Woodside, and form a temporary connection to the existing line between Kaitoke and the Pakuratahi, leaving the Upper Hutt-Pakuratahi section of the deviation to be done at some This would involve the loss of some £8,000 or £9,000 required to form the temporary future time.

The advantages to be expected to be got from the construction of the deviation with 1-in-70 grades or 1-in-82 grades on the straight against the down-country traffic, with properly balanced grades against the up-country traffic, would be: A much quicker service between Wellington and Woodside; a saving of seven miles in length of journey, and of over 1,100 ft. of rise and fall to be surmounted by each train; a greatly diminished number of goods-trains required to haul a given amount of traffic; a considerable saving in rolling-stock maintenance by the cutting-out of the 5 miles 8 chains of curves of 5-chains radius, and 1 mile 46 chains of curves of 5½- to 7-chains radius, on the existing line between the Upper Hutt and Cross Creek Stations (the limits of curvature on the new line being, say, 10-chains radius Upper Hutt to the Summit, and 7½ or 8 chains Summit to Woodside); the saving of the expenditure required to keep up the Cross Creek Station; the saving of the useless haulage of Fell brake-vans, weighing 12 to 18 tons, for each train up or down the Fell Incline; the saving of expense of running assistant engines between the Upper Hutt and the Summit, and between Cross Creek and Pigeon Bush, and some saving in maintaining the permanent-way on the Fell Incline. The grade of 1 in 70 on the straight will enable fully loaded engines to be run through from Woodville to Wellington (this grade offering about the same resistance to traction as the 1 in 76, with curves of 15 chains radius, between Woodville and Woodside), or the grade of 1 in 82 on the straight would enable an engine to take up some additional loading between Eketahuna and Woodside, in addition to its full load from Woodville to Eketahuna, and take this additional load through to Wellington without assistance.

The probable saving in working-expenses on the present annual traffic should be at least £12,000 to £13,000, but against this there would be, in the case of the Tauherenikau route, the cost of working a branch line to Featherston or Pigeon Bush; with the Road Saddle-Woodside route, this, perhaps, might be avoided, though it must be admitted that the station on the hills about 370 ft. or so above Featherston would be somewhat inconvenient. There would also, for some time at least, be an increased cost in earthwork maintenance. With increasing traffic, such as may reasonably be expected, there would be correspondingly greater saving in working-expenses.

The deviation vid the Tauherenikau will reduce the distance from Woodville to Wellington to about 1071 miles, as against 105 miles by the Manawatu line; but in view of the slower speeds

through the Manawatu Gorge, and the slow rate of travelling from Tawa Flat to Wellington, the time from Woodville to Wellington  $vi\hat{a}$  the Tauherenikau deviation would, I think, be a little shorter, as it also should be by the Woodside-Road Saddle route—in both cases for passenger-trains. The ruling gradient  $vi\hat{a}$  the Manawatu line against traffic to Wellington is 1 in 56, with 42-chain curves, as against 1 in 70 on the straight by the Tauherenikau deviation.

I have endeavoured to condense into the attached table all the information available as to the costs as estimated and the salient features of the several routes. The costs given for hauling 100,000 tons of gross loads of goods-trains (i.e., the weight of wagons and their loads only, exclusive of the weights of the engines) from Woodside to the Upper Hutt, over the several routes, are computed on the supposition that engines of about the power of the new B engines will be run on the deviation, also that the gross weight of the trains up the 1 in 15, exclusive of the weights of the Fell engines and Fell brake-vans, is 110 tons. The average weight of the trains up the incline is, for the last year, just under 100 tons, so the comparison should not be unfair to the existing line. It would, however, be possible to get Fell engines capable of taking up greater loads; but, on the other hand, it would also be possible to get more powerful engines than the B engines, and I have no doubt by the time the deviation is made that such engines will be in use.

The volume of the present traffic over the Rimutaka Incline is given in the attached memo-

randum from the General Manager of Railways.

The information regarding the Wainui-o-mata-Wairongomai route is hardly complete enough to enable any very definite comparisons being drawn between it and the other possible deviations between the Upper Hutt and Woodside. The estimated cost of this deviation is given by Mr. Dobson at £378,000, and is so high that the route will not at all compare with the Road Saddle-Featherston route, with equal grades 1 in 40, but for which the ascertained cost is only £181,200. In addition to this the distance would be ten miles longer. The great cost, the steep ruling grade,

and the great extra length are, I think, quite sufficient to condemn this route.

A considerable time will be required to make the permanent survey of the whole deviation from the Upper Hutt to Woodside—say, eighteen months to two years for a party as ordinarily constituted; therefore, if anything is intended to be done in the near future, the survey should be put in hand soon. The first work to be done should, I think, be the running of a grade-line from the north end of the tunnel down the Tauherenikau to Woodside on the 1-in-70 grade. This, with a sufficient number of cross-sections at suitable points, would enable the general character and amount of the works required to be approximately ascertained. Then a similar survey should be made from the east end of the Road Saddle Tunnel to Woodside. The limits of curvature should be 10-chains radius, except for the worst parts of the Tauherenikau, when 7½-chain as well as 10-chain curves should be tried. In the final location of the adopted line all grades on curves should be reduced to make the probable traction on each curve no worse than on the steepest grade on the straight. I think also that provision should be made for putting transition curves at the ends of all curves. As there is no very reliable information available for curve-resistance on 3 ft. 6 in. gaugel ines, I would recommend that some measurements of curve-resistance be made sufficiently numerous and accurate to enable the results to be used with confidence in all future railway locations.

P. S. Hay.

PROPOSED DEVIATION, WELLINGTON-NAPIER RAILWAY, OVER RIMUTAKA.

SUMMARY OF LEADING FEATURES OF the SEVERAL ROUTES between Upper Hutt and Woodside Stations.

Route.	Ruling Gradients.		ade to Waira- luired for Ex- atio of Traffic de in (1).	Length: Upper Hutt to Woodside.	Rise and Fall: Upper Hutt to Woodside.	Estimated Cost.	req 100,000 loa	Estimated Number of Trains required for Haulage of 100,000 Tons of Gross Engine- load from Woodside to Upper Hutt, and Cost of Haulage.					
	Wairarapa to Wellington	Wellington to Wairarapa.	Ruling Grade to We rapa required for isting Ratio of Tr for Grade in (1).	Lie Uppe Wo	Rise Uppe WC	Rise Uppe Wo Estim	B Engines.	Two Fell Engines.	Number of Train- miles.	Cost.	Summit Tunnel.	Other Tunnels.	Height of Summit above Sea-level.
Upper Hutt to Featherston, viâ		(2) 1 in	1 in 34 on straight	Miles.	Ft.	£ 285,000		Trains	12,235	£ 1,835	Yd. 3,146	Yd. 440	Ft.
Road Saddle	1 in 50 on straight	55	1 in 45 on straight		1,000	298,000	380		8,645	1,297	3,146	440	}
Upper Hutt to Fernside, viâ No. 1 line and Road Saddle	1 in 66 on straight	1 in 55	1 in 60 on straight	23	1,419	370,000	287	••	6,601	990	3,120	440 + 500*	897
Upper Hutt to Woodside, viâ No. 1 line and Road Saddle	1 in 82 on straight	1 in 55	1 in 74 on straight	23 <del>1</del>	1,279	460,000	235		5,464	820	3,100	440 + 800*	897
Upper Hutt to Woodside, vid No. 1 line and Tauherenikau	1 in 70 on straight 1 in 56 on straight	1 in 60 on str.	1 in 64 on straight 1 in 53 on straight	221	1,347	325,000	338	••	6,120 7,605	918 1,041	1,5 ⁴⁰ to 1,650	440 + 800*	979 to 927
Existing line	1 in 15+ 5-chain curves	1 in 35 + 5-chain curves	••	293	2,485		••	910	••	5,200		• •	1,144

MEMORANDUM for the GENERAL MANAGER, New Zealand Railways.

Public Works Office, Wellington, 9th June, 1899.

#### RIMUTAKA DEVIATION.

COULD you please give me information on the following points:-

Passenger-trains each way per day.

Goods-trains each way per day.

Total number of trains Cross Creek to Featherston in a year.

Total number of trains in a year, Featherston to Cross Čreek, to be sent up incline. Gross tonnage of same, exclusive of engine-weights.

Total number of trains down incline in a year.

Total number of trains up incline in a year.

Gross tonnage of same, exclusive of engine-weights, and exclusive of incline brake-van. Is this van always used, and what is its weight?

Total number of trains in a year Summit to Upper Hutt.

Total number of trains in a year Upper Hutt to Summit.

Gross tonnage of the same exclusive of engines. Assistant-engine mileage, Upper Hutt to Summit. Assistant-engine mileage, Pigeon Bush to Cross Creek.

Is there any marked increase in cost of rolling-stock maintenance on Wellington-Woodville Section due to sharp curvature Upper Hutt to Cross Creek?

1899 returns, wool, sheep, cattle, timber, firewood, general merchandise (Wellington-Waira-).

P. S. Hay,

Superintending Engineer.

#### New Zealand Government Railways, Head Office, Wellington, N.Z., 22nd June, 1899.

MEMORANDUM for Mr. P. S. HAY, Superintending Engineer, Public Works Department, Wellington.

THE following information is forwarded in response to your memorandum of the 9th instant: number of passenger-trains each way per day. Cross Creek

Traffic over Rimutaka for year ended 31st March, 1899:-

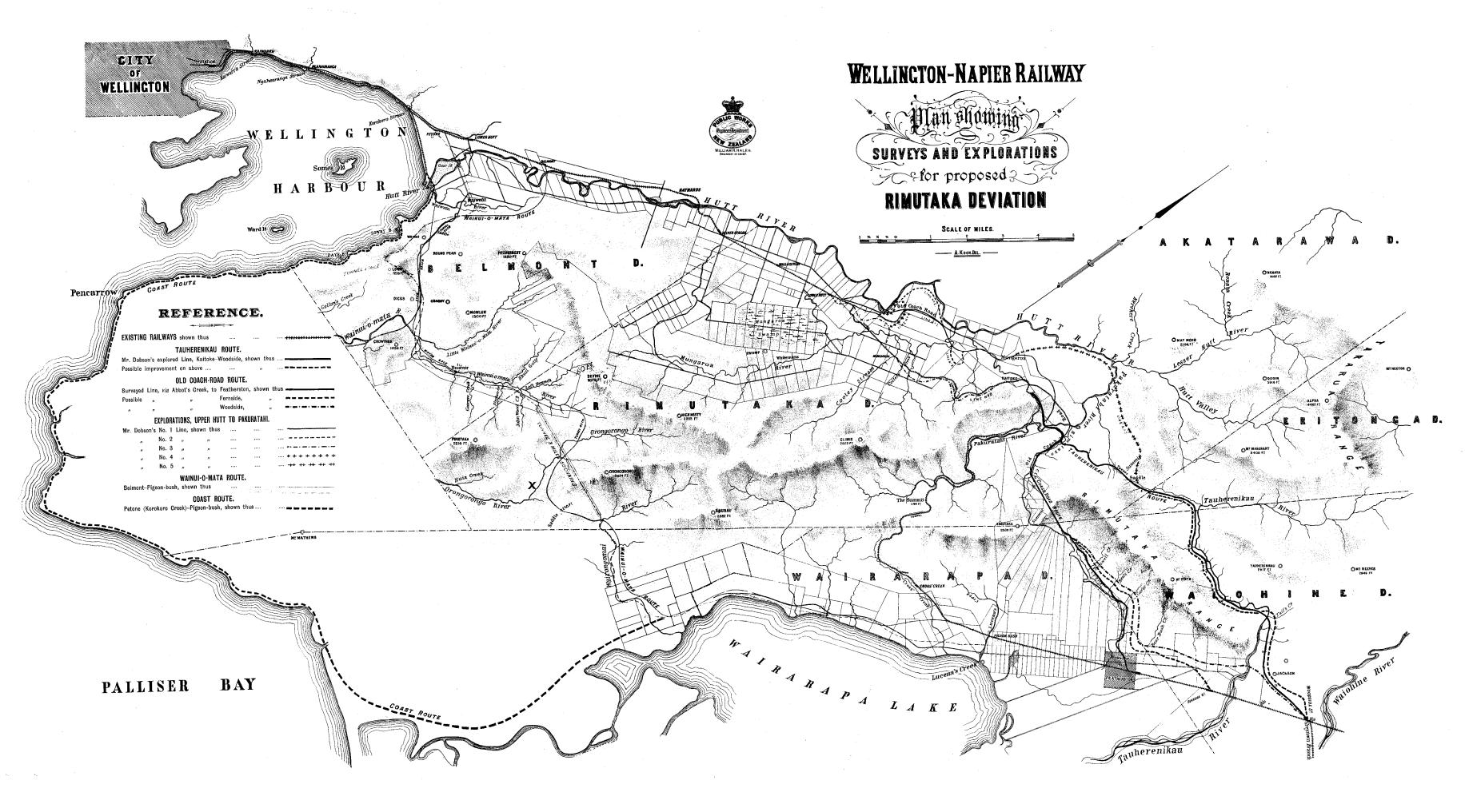
	Cattle.	Sheep, &c.	Wool.	Firewood.	Timber.	Grain.	Merchandise.	Minerals.
North South	No. 222 1,792	No. 1,873 421,197	Tons. 3 5,947	Tons. 48 5,298	Tons. 130 25,852	Tons. 4,978 691	Tons. 11,367 4,516	Tons. 2,640 405
Total	2,014	423,070	5,950	5,346	25,982	5,669	15,883	3,045

Tonnages are exclusive of weights of engines and Fell brake-vans. The weight of Fell brakevan is 6 tons; and one, two, or more, according to train-load, are put on all trains either ascending or descending the incline. With the exception of that for Cross Creek-Summit, the tonnages are approximate.

In addition to traffic given under heading of "Traffic over Rimutaka," a large quantity of coal for locomotives, timber, ironwork, cement, &c., for maintenance works, is conveyed over the incline. The tonnage of this departmental traffic is, however, included in that for trains given on first page of this memorandum.

An answer to your inquiry in regard to increase in cost of rolling stock maintenance will be sent in a few days. T. Ronayne,

General Manager (per T. W. W.).

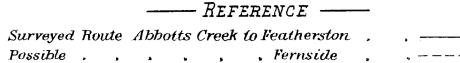


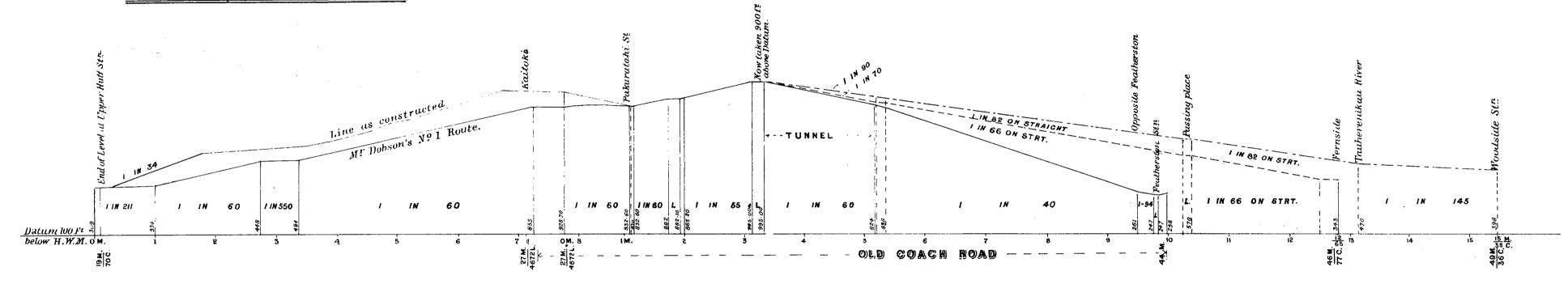
# WELLINGTON * NAPIER RAILWAY RIMUTAKA DEVIATION SURVEYS

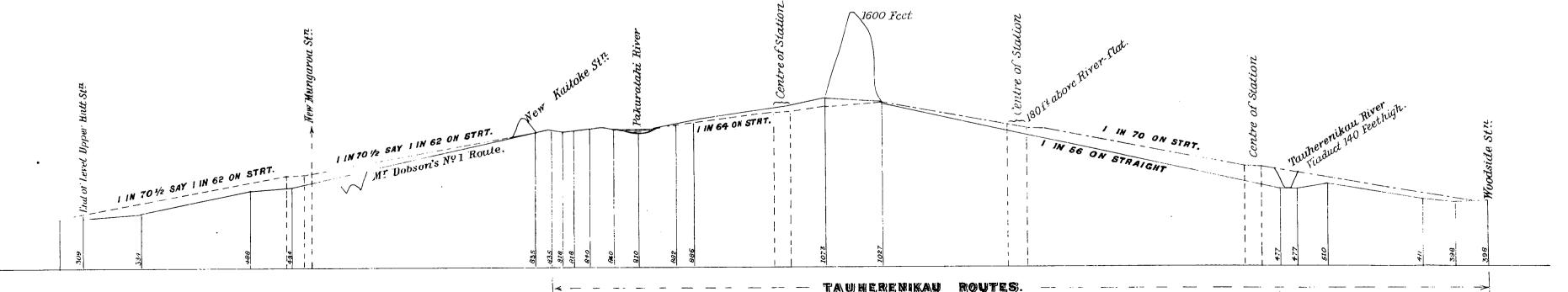
-Scale of Longitudional Sections -

Horizontal. One inch to one mile.

Vertical. Four hundred feet to one inch.







137 D.-1.

New Zealand Government Railways, Head Office, Wellington, N.Z., 15th July, 1899.

MEMORANDUM for Mr. P. S. HAY, Superintending Engineer, Public Works Department, Wellington.

RIMUTAKA DEVIATION .- With further reference to your memorandum of the 9th ultimo, the Locomotive Superintendent of this department states that wagon-tires and brasses will run about four times as long on a fairly straight road, in comparison with such a road as between Upper Hutt and Cross Creek T. RONAYNE,

General Manager (per T. W. W.).

## APPENDIX K.

#### WELLINGTON-NAPIER RAILWAY.

REPORT ON PROPOSED ROUTE FOR DEVIATION OF LINE IN ORDER TO AVOID THE FELL INCLINE OVER THE RIMUTAKA, BY MR. R. W. HOLMES, M.Inst.C.E.

Public Works Office, Wellington, 11th September, 1899.

Hon. Minister for Public Works.

Mr. R. W. Holmes, Resident Engineer, having made an examination of the country from Petone to Pigeon Bush, in the Wairarapa Valley, with a view of ascertaining if a practicable route for a railway is obtainable by way of the Wainuiomata, Orongorongo, and Wairongomai Valleys, his report and plans are submitted for your information.

It will be seen by the report and plans that the country between the Lower Hutt Valley and the Wairarapa Lake is of a very rough character, being intersected by high ridges, through which, in order to obtain a line with moderately easy grades, it will be necessary to construct two large tunnels, one through the Wainuiomata Ridge being one mile in length, and the other through the Orongorongo, between the head of the Wainuiomata and the Wairungamai Valley, will require to be 3 miles 50 chains long, the latter on a grade of 1 in 100. This latter tunnel, on account of its great length, will be costly to construct, and will take a long time to excavate, besides the difficulty of working such a length of tunnel with heavy trains on a grade of 1 in 100, unless very efficient means of ventilation are provided.

Mr. Holmes estimates the cost of constructing the 30 miles 60 chains of new railway at £463,547, but has probably underestimated the value of the work in the long tunnels, for which I consider £35,000 should be added. The construction of the railway along the Wainui-o-mata Valley is likely to interfere considerably with the source and head-works of the Wellington City water-supply, consequently some objection to the work may be expected from the Corporation.

WILLIAM H. HALES.

Engineer-in-Chief.

MEMORANDUM for the Engineer-in-Chief, Public Works Department.

#### WELLINGTON-NAPIER RAILWAY.

PROPOSED DEVIATION BETWEEN PETONE AND PIGEON BUSH  $\emph{VI}\^A$  WAINUI-O-MATA—LOW-LEVEL LINE.

Public Works Department, Wellington, 9th September, 1899.

I have the honour to inform you that I have examined the country between the Petone Station and Pigeon Bush Station, via the Wainui-o-mata and Wairongomai Valleys, with the object of seeing whether or not a practicable route exists for a deviation of present line of railway and now report upon the same as follows:-

The obstacles to the construction of a line are three watershed-divides—namely, Hutt-Wainui-o-mata, Wainui-o-mata-Orongorongo, and Orongorongo-Wairongomai.

The saddles in these divides cannot be made use of because the mountain-sides are too precipitous, too broken by branch valleys, and too liable to slip to permit of the construction of a railway-line in the position that would be necessary to allow of grading over them; also, there is not sufficient distance to grade down in from the Orongorongo River to the Wainui-o-mata River with a 1-in-60 grade, while a Fell incline on a very unstable foundation would be required on the Wairongomai side. The summit-level of a graded line would be about 1,400 ft. above the sea,

and situated at the head of the Wainui-o-mata River.

The difficulties presented by these divides can be surmounted by the construction of two tunnels, one 80 chains (one mile) long between Lowry Bay and Wainui-o-mata, the other 3 miles 50 chains long between Wainui-o-mata and Wairongomai Rivers, passing under the Orongorongo

River at a depth of 800 ft. below the bed.

There will be two miles of heavy work grading up to the first tunnel from the Hutt Valley, and three miles of heavy work grading down the Wairongomai Valley from end of second tunnel,

the rest of the formation-works will be very easy, and situated on flat ground.

With the exception of three miles in the Wairongomai Valley the formation-works will be very stable, neither liable to slip nor suffer damage by flood, consequently the maintenance of line will be very light.

21—D. 1.

The position of line is indicated on the accompanying plan.

The distance from Petone to Pigeon Bush is 303 miles, which is the length of deviation or new line to construct.

The distance from Wellington to end of deviation at Pigeon Bush via constructed line is 41 miles, and viá deviation is 37 miles 33 chains, a saving of 3 miles 47 chains being effected on the actual distance, and  $10\frac{1}{4}$  miles on the present paying distance.

The highest point or summit of the line is at the Wellington end of the long tunnel, its height

above sea-level being 560 ft., and 584 ft. below summit of constructed line.

The maximum grade required is 1 in 70 against the traffic to the Wairarapa, and 1 in 80 against the traffic from the Wairarapa, which is the larger quantity: they are therefore situated in the most advantageous position. The accompanying section indicates the extent and rates of

The maximum curvature required is  $7\frac{1}{2}$  chains radius, which may possibly be reduced to 10 chains radius. The sharp curvature is confined to two parts of the line, situated between the 3rd and 6th mile pegs, and between the 16th and 20th mile pegs, which aggregate a length of seven miles; the rest of the line consists of long straights with flat curves: the line will therefore be an extremely favourable one for fast travelling, both as regards grades and curvature.

The estimated cost of deviation, complete with all equipment, is £463,547, made up as

follows:-

From	То	Distance.	Item.	Rate.	Amount.
м. сн.	м. сн.	M. CH.		£	£
0 0	3 0	3 0	Mile	7,000	21,000
3 0	$6 \ 40$	3 40	"	30,000	105,000
6 40	12 50	6 10	. "	5,000	30,625
12 50	16 20	3 50	,,	59,840	216,922
16 20	19 60	3 40		10,000	35,000
19 60	30 60	11 00	"	5,000	55,000
		1			£463,547

Average rate, £15,075 per mile.

The long tunnel must be on a grade of 1 in 100, descending towards the Wairarapa. Should the products of combustion emitted by the locomotives prove troublesome, ventilation may be effected by sinking a shaft from the Orongorongo Valley, and driving a current of air down it into the tunnel by means of a small stream of falling water derived from the river, and delivered near bottom of shaft at a high pressure by means of piping, a pressure derived from a head of 800 ft. being available; or the water may be led to the lower adit of tunnel from the point marked X on plan, and there, with an available head of 700 ft., be used to either drive air through tunnel by means of fans, or to generate electricity and work the up-traffic by means of electrical locomotives.

The country between the reservoir in the Wainui-o-mata Valley and the narrow belt of flat

country along the Wairarapa Lake is quite unfit for settlement; it is only fit for a forest reserve, or to act as a catchment-basin for supplying Wellington with water and power as far as the Orongorongo Valley is concerned. The Wairongomai Valley is merely a precipitous mountain-

gorge

The chief points in favour of this route are: (1) Shorter by 3 miles 47 chains than constructed line; (2) low summit-level—viz., 560 ft. above sea-level; (3) only one bridge of any magnitude—viz., that over the Hutt River; (4) easily maintained; (5) very easy grades; (6) does not interfere with present line through Featherston.

R. W. Holmes, Resident Engineer.

By Authority: John Mackay, Government Printer, Wellington.—1899.

# WELLINGTON-NAPIER RAILWAY.

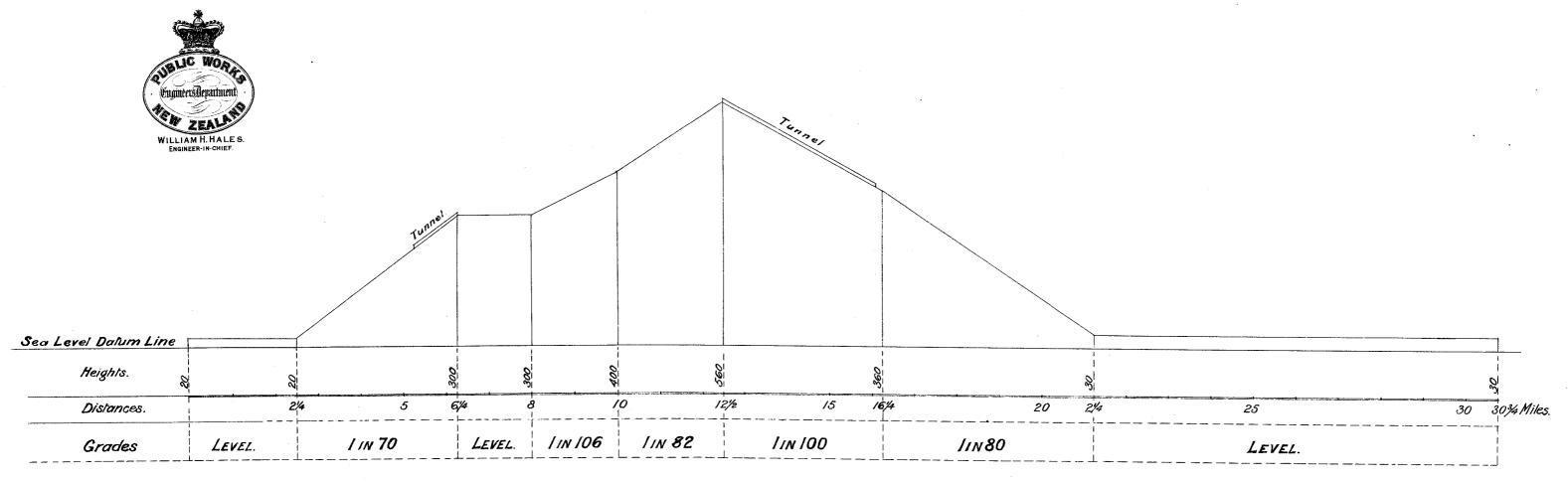
# RIMUTAKA DEVIATION.

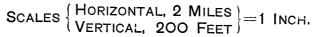
# WAINUI-O-MATA ROUTE.

LOW-LEYEL LINE, PETONE-PIGEON BUSH.

Longitudinal Section accompanying Mr. R. W. Holmes's Report, 9th Sept., 1899.

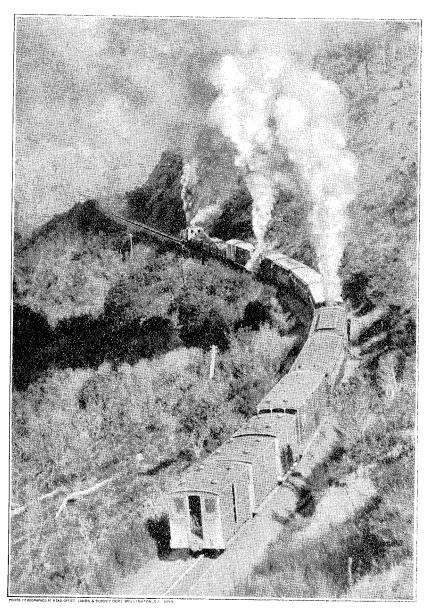
Note! This Section refers to dotted Yellow Line on Plan accompanying MI HAY'S Report.





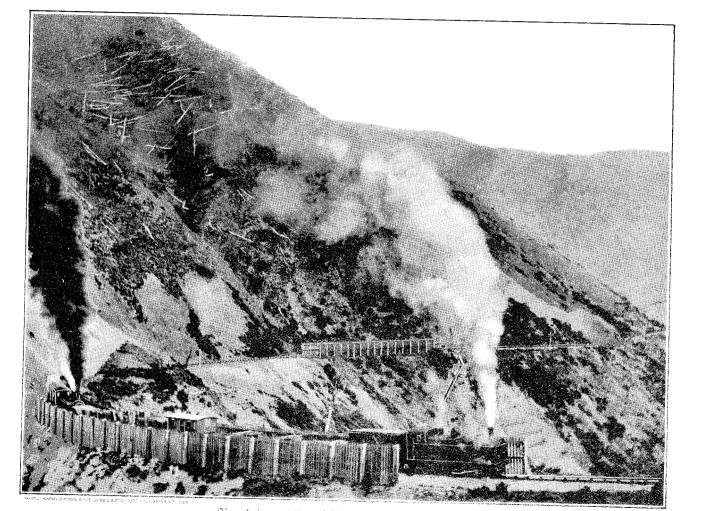


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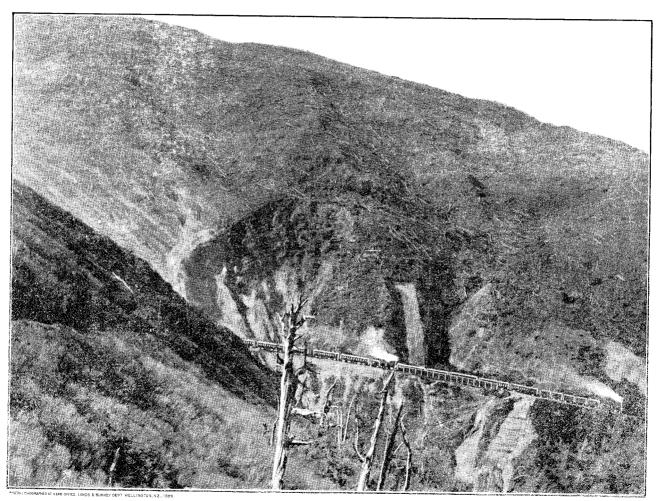


Rimutaka Incline, Wellington-Napier Railway.

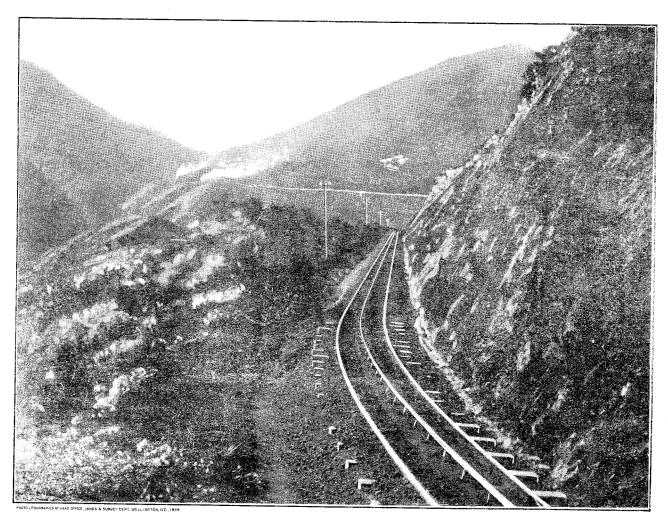




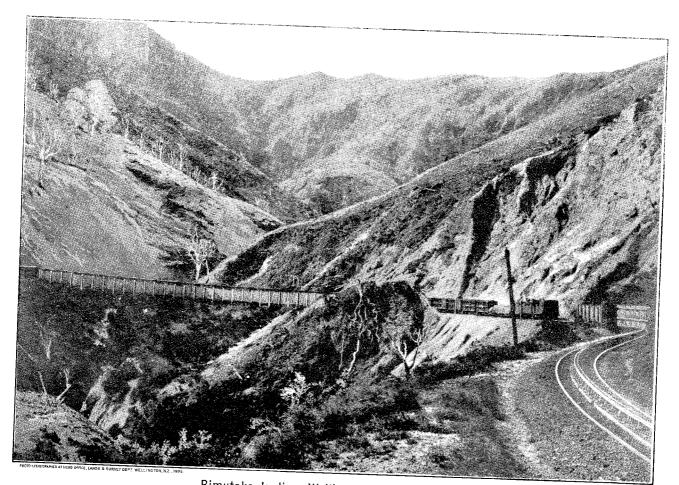
filmutaka inglins, Wellington-Negro Tuling.



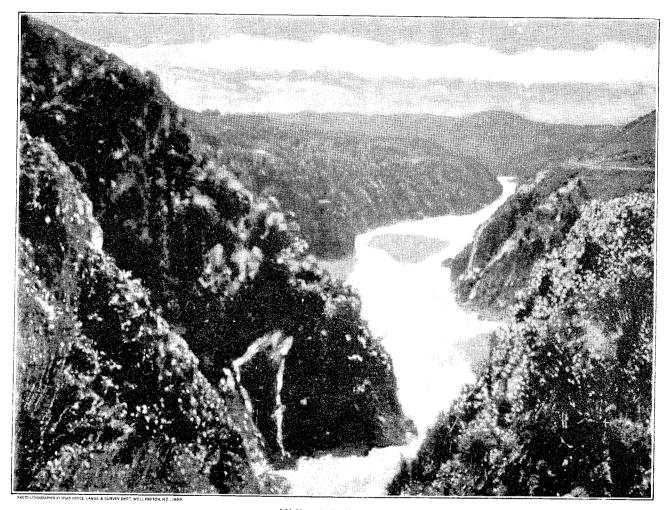
Wellington-Napier Railway, Rimutaka Incline.



Wellington-Napier Railway, Rimutaka Incline.

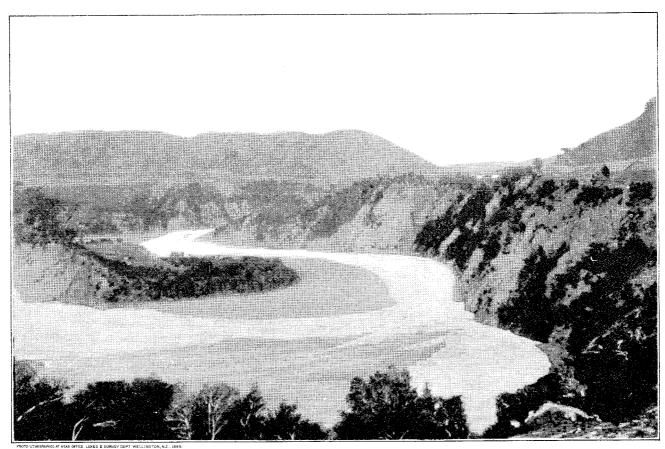


Rimutaka Incline, Wellington-Napier Railway.



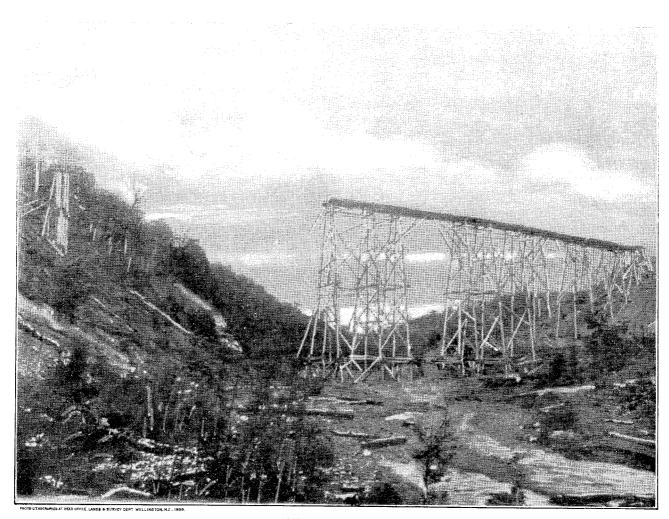
Midland Railway.

View looking up Waimakariri River from Staircase Gully, about Ten Miles from Springfield.



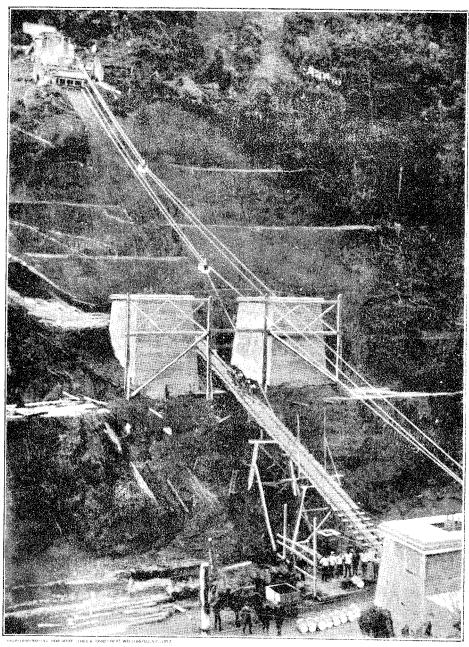
Midland Railway.

View of Waimakariri River, about Seven Miles and a Half from Springfield.



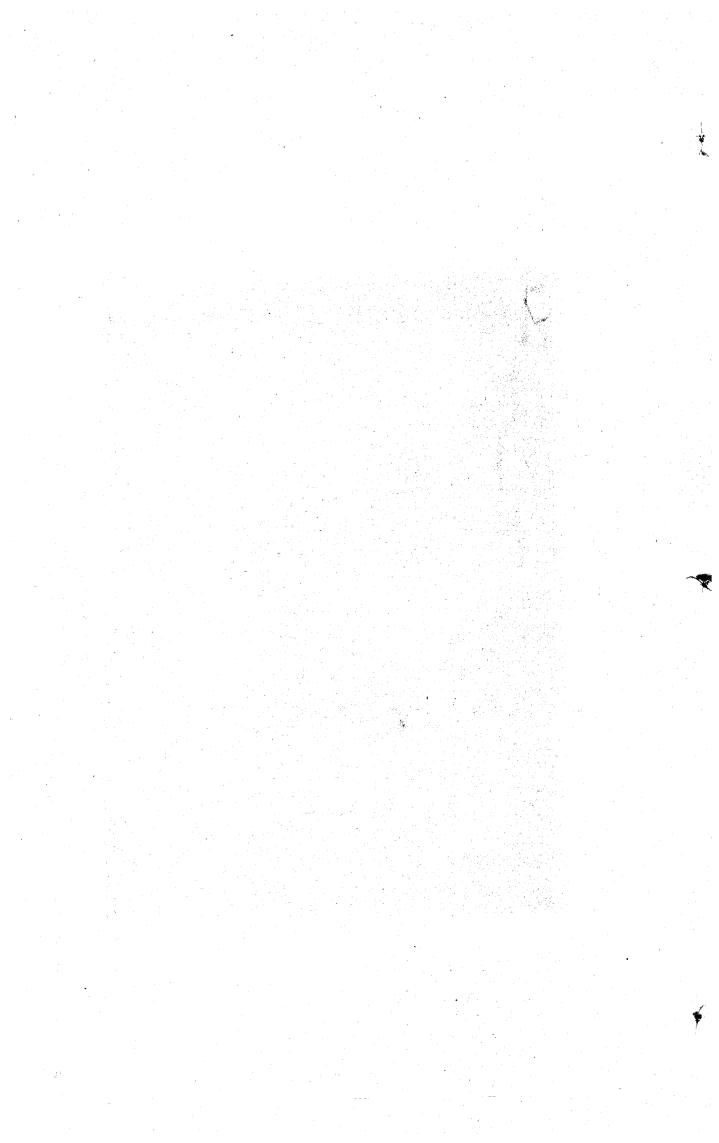
Midland Railway.

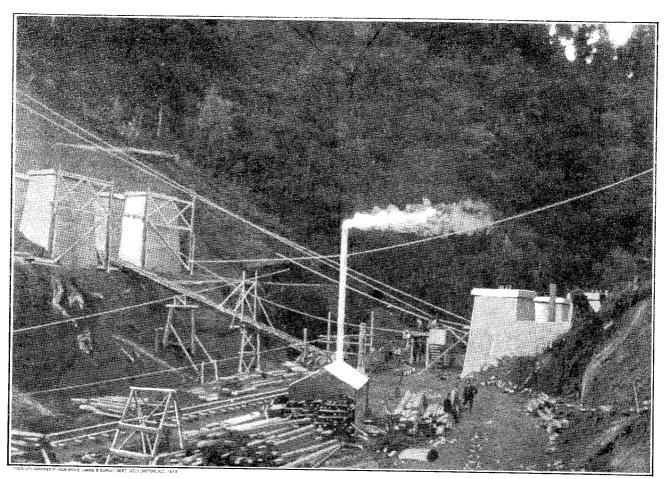
Ruins of Temporary Viaduct over Patterson's Creek, about Six Miles from Springfield.



Foundation Piers of Makohine Viaduot.

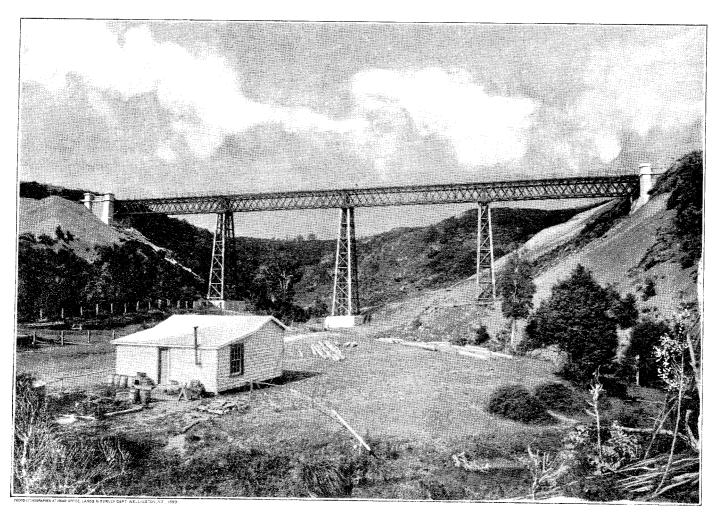
North Island Trunk Railway.



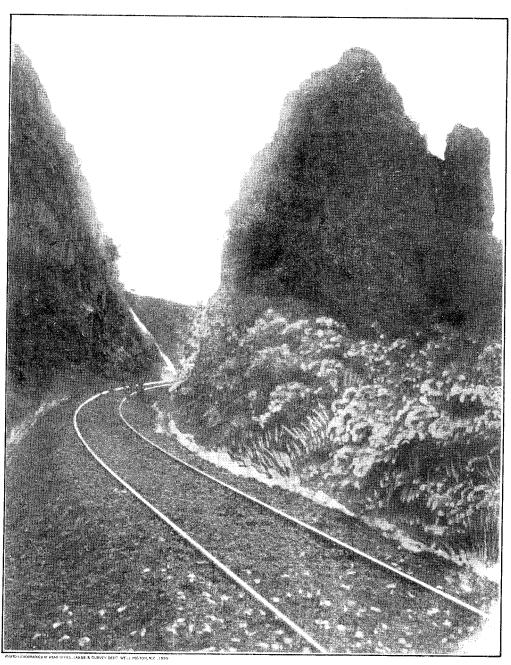


Foundation Piers of Makohine Viaduct.

North Island Trunk Railway.

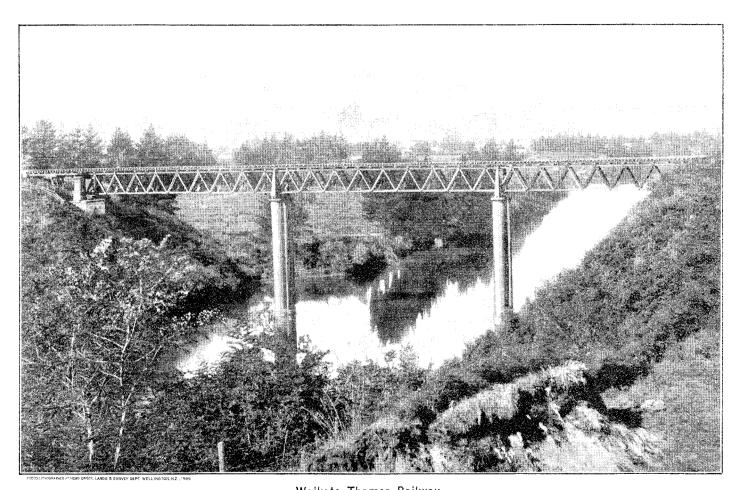


Waitste Viaduot, from West Sids.
4 spans of 76. Fr. Refidever 113 rg. et al. (1975) et al.



Waterfall Cutting, Mokau Section, North Island Trunk Railway, 1899.





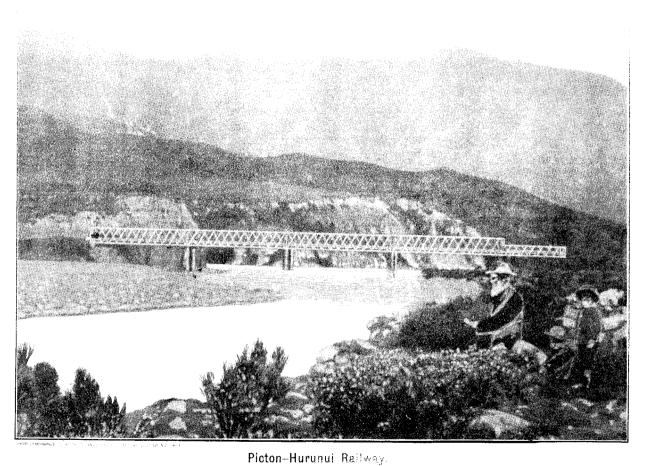
Walkato-Thames Railway.

Bridge over the Walkato River. Three Spans of 132 ft. and Four Spans of 20 ft.

100 ft. from Rails to Bed of River.

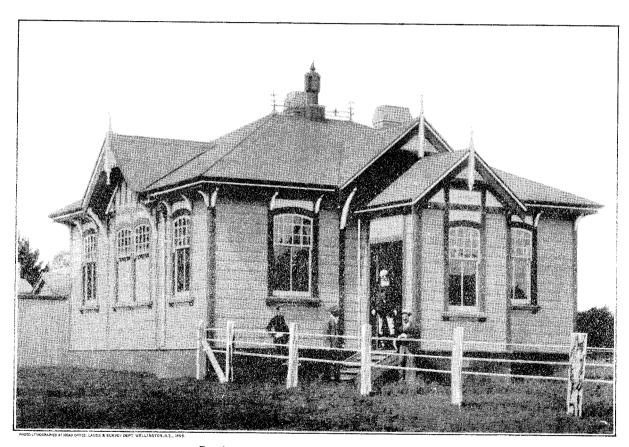


Hamilton Traffic-bridge, Waikato River, from the West Side. April, 1899. 3 spans of 100 ft. and 5 spans of 40 ft. Road-level 70 ft. above river-bed.

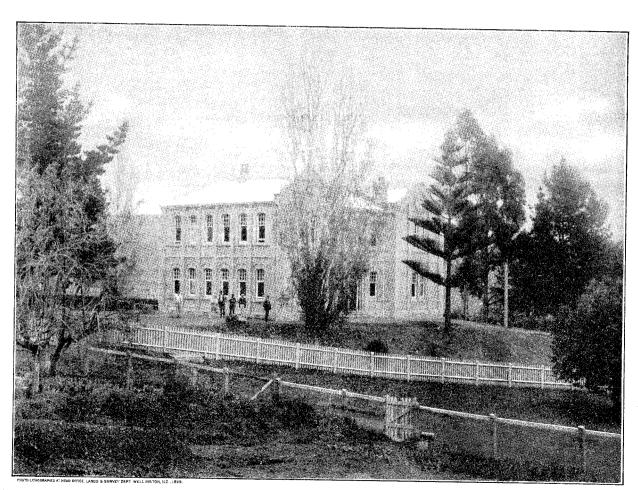


riction—nurunus nasiway.

Combined Road- and Railway-bridge over Clarence River. Four Spans of 120 ft. and Span of 60 ft.



Featherston Courthouse, erected 1896.



Nelson Auxiliary Asylum, erected 1898.