NEW SOUTH WALES.

REPORT

OF THE

DEPARTMENT OF PUBLIC WORKS,

FOR THE

YEAR ENDED 30TH JUNE, 1897.



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1898.

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NEW SOUTH WALES.

THE DEPARTMENT OF PUBLIC WORKS.

(ANNUAL STATEMENT-1896-7.)

The Under Secretary for Public Works and Commissioner for Roads to The Hon. James Henry Young, M.P., Secretary for Public Works.

The Department of Public Works, 24 January, 1898.

Sir,

I do myself the honour to submit, for your information, the Annual Statement relating to the operations of this Department during the year ended 30th June, 1897.

The gross expenditure for the year amounted to £1,739,872 14s. 11d., of which the sum of £883,203 6s. 9d. was provided from the Consolidated Revenue, and £856,669 8s. 2d. from Loan Funds. This expenditure was distributed as under:—

SUMMARY OF EXPENDITURE, 1896-7.

Head of	Service	e.			Reven	ne.		Loa	n.		Tota	1.	
			HIN		FIRST.							4	
				y in the	£	s.	d.	£	8.	d.	£	S.	d
Establishment*	***		***		28,308	15	10	*********			28,308	15	10
Railway Construction	***				9,940	2	4	175,426	12	7	185,366		
Tramway Construction	***				10	11	9	12,129	9	7	12,140		
Harbours and Rivers an	d Wat	er Sup	ply		57,687	8	7	267,462		6	325,150		
Dredge Service	***				79,255	15	0				79,255		
Country Towns Water	Supply							21,930			21,930		10
Water Conservation and	Irriga	tion			129	6	5	32,518			32,647		3
Government Architect					83,969	6	8	166,183			250,152		-
Roads and Bridges					621,948	17	3	54,261			676,209		
Sewerage Construction					1,953		11	126,757			128,710		
											120,710	4. 1	10
TOTALS				£	883,203	6	9	856,669	8	2	1 790 879	14	11
				00	000,200	0	9	000,009	0	2	1,739,872	14	11

^{*} This includes the Ministerial Office and the General, Clerical, and Accounts Staffs.

Comparing these figures with the expenditure of the preceding year, there is a net decrease for this year of £32,612 17s. 7d. The year's expenditure was spread over 34,492 vouchers, and the actual payments were made as follows:—

			£	S.	d.
By the Department, direct	 	***	 975,997	2	6
By the Treasury	 		 763,875	12	5
Total	 		 £1,739,872	14	11

The following tabulated statement is interesting as showing the distribution of the expenditure under the heads of Contracts, Wages, Salaries, Materials, &c.:—SUMMARY of Expenditure, showing Distribution under Contracts, Wages, Salaries, and Materials, &c.

Head of Service.	Contra	cts.		Wages. Salaries.			Materi Miscellane Incide	ous		d Totals.					
	£	S.	d.	£	S.	d.	£	s.	d.	£	S.	d.	£	s.	d
Establishment							24,533	7	9	3,775	8	1	28,308	15	10
Railway Construction	78,228	1	5	10,778	13	1	17,147	5	1	79,212	15	4	185,366	14	1
Tramway Construction	6,682	1	6	558	17	1	1,616	3	5	3,282	19	4	12,140	1	4
Harbours and Rivers	93,792	3	9	123,085	18	6	22,248	19	5	86,023	3	5	325,150	5	
Dredge Service	86	17	2	54,670	5	1	3,488	0	0	21,010	12	9	79,255	15	(
Country Towns Water Supply	4,705	8	6	7,873	16	6	665	19	1	8,685	5	9	21,930	9	10
Water Conservation and Irrigation	11,451	12	1	7,902	8	5	4,642	4	1	8,651	4	8	32,647	9	***
Government Architect	187,867	15	11	13,558	7	10	14,699	14	9	34,026	8	2	250,152	6	
Roads and Bridges	340,385	3	10	146,410	1	3	40,246	2	3	*149,168	11	10	676,209	19	1
Sewerage Construction	85,923	7	11	25,683	4	7	10,392	11	6	6,711	13	10	128,710	17	10
	809,122	12	1	390,521	12	4	139,680	7	4	400,548	3	2	1,739,872	14	1

	£	S.	d.
* Includes—Issues to Municipalities	. 77,389	10	3
,, Trustees	. 9,920	1	10
Equipment and Travelling Expenses (say).	. 16,000	0	0
	£103,309	12	1

The number of contracts entered into during the year was 3,587, of an estimated value of £892,172.

RAILWAY AND TRAMWAY CONSTRUCTION. Railways.

From the report of the Engineer-in-Chief (Mr. Deane), hereto appended, it will be seen that the following extension lines have been completed and opened for traffic during the year:—

Li	ne.		Length.	Opened for Traffic.	Cost to 30th June, 1897.
Jerilderie to Berrigan Parkes to Bogan Gate Narrabri to Moree Rookwood Cemetery Bra	 	 0-6	 m. ch. 21 65 23 38 63 72 — 68	14 Nov., 1896 15 Dec., 1896 1 April, 1897 20 Feb., 1897	£ 38,781 50,396 131,850 6,563

With the exception of the Rookwood Cemetery Branch Line, all these extensions are of the "pioneer" class, and are intended to afford railway communication in those tracts of level country where the amount of traffic procurable is not sufficient to justify the heavy expenditure entailed by the construction of a thoroughly equipped railway. These pioneer lines have been designed and carried out in the most economical manner, with the result that the average cost per mile is only about £2,028, being some £1,700 per mile less than the cost of the cheapest "light line"—namely, Nyngan to Cobar—hitherto constructed in the Colony.

It is gratifying to be able to report that the benefits accruing to the country from these lines have surpassed all anticipations. In each case the estimate of traffic has been exceeded, while the cost of maintenance has been remarkably low. They have proved to be of great advantage to the development of those areas through which they run, and their success fully warrants your decision for the further extension of similar lines into all suitable districts.

Lines of a like description were in course of construction at 30th June, 1897, as follows:—

Bogan Gate to Condobolin—length, 39 m. 22½ ch. Nevertire to Warren—length, 12 m. 34 ch.

The first-mentioned is a continuation of the Parkes to Bogan Gate Extension, and its completion may be looked for at an early date.

The Nevertire to Warren Line, which has now (24th January, 1898) been completed and opened for traffic, is the first experiment on a comparatively large scale of the construction of a Railway Line by the Department on the day-labour system without the intervention of a contractor.

This work was begun and carried on under somewhat adverse conditions. The weather for a considerable period was unfavourable, the ground at one time being so hard that the ploughs could not be used, and afterwards becoming so sodden in consequence of heavy rains that operations were brought to a standstill. There was also considerable difficulty experienced by the Department in procuring the skilled labour required for some portions of the work, owing, it is believed, to the exodus of the better class of railway men to the West Australian Goldfields.

These difficulties have delayed the completion of the line, and slightly added to its cost, but, notwithstanding these hindrances, the experiment has proved satisfactory. It has conclusively shown that the Department is not entirely dependent upon contractors, but that it is capable in itself not only to design, but also to execute, works of considerable magnitude.

It may be freely admitted that a contractor possesses several advantages over the Department, as, for instance, in the profitable employment of his working plant. A contractor has the chance of securing other contracts either in this or the neighbouring colonies, and so getting the best possible return from the continuous use of his plant, whereas the Department, after purchasing a costly plant and using it on one job, may have afterwards to allow it to lie idle for a lengthened period, when it becomes a dead loss. Again, the Department, having to work under hard and fast regulations, is not allowed equal facilities with a contractor as regards the supply of materials, and the engagement and dismissal of employees.

On the other hand, under the day-labour system, the Department is saved from the many vexatious complications and claims which are so liable to crop up under the contract system. Once the work has been completed by day-labour, its exact cost is definitely known, and there is no possibility of demands for extra payments being brought against the Department. This is a very important aspect of the question, as the Department has had, in the past, to face not a few very heavy claims on the part of contractors. For this reason alone, if for no other, the Engineer-in-Chief is prepared to recommend that, wherever practicable, the day-labour system should be adopted in preference to giving the work out to contractors.

A short extension designed to connect Darling Island with the Darling Harbour Line was commenced towards the end of the year. In order to meet the ever-growing demand for wharf accommodation in the Port of Sydney, it was decided to utilise the extensive and valuable water frontage of Darling Island, and it thus became necessary to connect it with the Darling Harbour Line. The extension will consist of a double line of railway, and a contract for the formation of the first length of 21 chains is now in progress.

The construction of the undermentioned lines has been authorised by Parliament:—

Berrigan to Finley ... 13 miles 62 chains ... £27,250 Tamworth to Manilla ... 29 miles 45 chains ... 73,170

The necessary plans and working drawings have been prepared for the Berrigan to Finley Extension, which it has been determined to construct on the day-labour system. The commencement of the work has, however, been delayed, pending compliance with certain conditions specified in the Act authorising its construction.

Influenced no doubt by the exorbitant claims frequently made on the Government by owners of lands resumed for railway purposes, Parliament deemed it advisable to insert the following proviso in the Berrigan to Finley Railway Act:—

Provided that the said works shall not commence to be constructed unless the private lands required for the construction of the line (except town allotments) have been contracted, by instrument in writing, to be conveyed by deed of gift, transfer, or exchange from the owners to the Crown, or there has been paid to the Constructing Authority a sum equal to, or greater than, the amount estimated by the said Authority to be required for the resumption of land for the said work, and the money so paid shall be applied for the purpose of the said resumption.

Similar provisos appear in the Jerilderie to Berrigan and the Nevertire to Warren Railway Acts.

The effect of this proviso has in each instance been to delay the commencement of operations. The work of obtaining the proper transfers from the owners and others interested in the lands required for the construction of the railway is intricate, and has occupied some considerable time, and inasmuch as the value of the private lands required for the above-mentioned lines has been insignificant, it is doubtful whether the savings effected by the operation of the proviso in question are not counterbalanced by the delay thus incurred in carrying through the works. So far there have been two refusals on the part of owners to transfer the required lands without compensation, and in each case the persons directly interested in the construction of the line have subscribed the amount of compensation asked for.

In the Tamworth to Manilla Railway Act, Parliament has provided that the work shall not be commenced if the compensation to be paid for the land required to be resumed is estimated to exceed the sum of £2,000, unless there has been paid to the Constructing Authority a sum equal to or greater than the amount estimated in excess of that sum.

Proposed extension of the Railway into the City of Sydney.—The consideration of this important undertaking, which has been so frequently and urgently advocated by the Railway Commissioners, has engaged much of the time and attention of the Branch during the past year.

The Parliamentary Standing Committee on Public Works having been appointed a Royal Commission to inquire into the whole question, the Railway Construction Branch was called upon to furnish voluminous plans and estimates of cost of the various proposals brought before the Commission. After a most exhaustive investigation, the Royal Commission reported, almost unanimously, in favour of the extension of the railway into the city by the route and according to the plan described as the St. James' Road Scheme. At a later date the question was referred by Parliament to the Parliamentary Standing Committee on Public Works, who, after a second and thorough inquiry, endorsed the recommendation of the Royal Commission.

The services and assistance rendered to the Royal Commission and to the Public Works Committee in this inquiry by Mr. Deane and his staff were most valuable and much appreciated.

Permanent-way Material.—In August, 1896, the Government invited tenders for the manufacture within the Colony of 150,000 tons of steel rails, but no satisfactory tender was received. The offer made by Messrs. G. and C. Hoskins, of Sydney, afforded proof, however, that they were prepared to take in hand the risk of erecting the necessary plant for the manufacture of steel rails, but the price asked for by them was so considerably beyond the cost of imported rails that the Government could not see its way to accept their tender.

Tramways.

Mosman's Bay Extension.—During the year the extension from Spit-road to Mosman's Bay of the Military Road Electric Tramway, a length of 1 mile 37 chains, has been completed and handed over to the Railway Commissioners. The heavy gradients on this extension afford a severe test of the suitability of electric traction to the more rugged and uneven districts met with in this portion of the Metropolitan Area, and although these have demanded the supply of extra power, the working of the line has so far proved satisfactory.

The total expenditure on this extension up to 30th June, 1897, was £6,484.

Willoughby Electric Tramway.—This further extension in the North Sydney district of electric traction on the overhead-wire system was authorised in December, 1896, and its construction is being rapidly proceeded with. The extension starts from the present terminus of the cable tramway in Falcon-street and ends at Victoria Avenue, Chatswood, a length of 2 miles 45 chains.

In connection with this line, the section of the existing cable tramway between Ridge-street and the terminus in Falcon-street will be converted into an electric line, the motive power for the whole distance from Ridge-street to Chatswood being supplied from generators placed in the Ridge-street engine-house. The total cost of this extension, including an additional generator and a necessary enlargement of the car-house, is £19,600. The completion of this work may be expected about March, 1898.

Rose Bay Electric Tram.—Another extension on the same system as the preceding is the line which has been authorised to be constructed from the present cable tramway terminus at Ocean-street to Rose Bay—a distance of 1 mile 23 chains of single track. The motive power will be supplied from generators placed in the cable tramway engine-house at Rushcutters' Bay. The same generators will be availed of to provide the power required to work the pumps in connection with the Double Bay Low-level Sewerage Scheme.

George-street and Harris-street Electric Tramway.—This tramway, the construction of which at an estimated cost of £130,500 was authorised by Parliament in September, 1896, will be the most prominent instance of electric traction in the Colony. The line will start from the eastern side of Circular Quay, run along George-street to the Redfern Railway Station, and then continue along Harris-street to the intersection of John-street, Pyrmont. It will consist of a double track throughout its whole length of 3 miles 20 chains. Including cross-over roads and junctions, this is equal to a length of single track of about 7 miles.

The overhead-wire system has been adopted for this tramway after a very careful examination into the merits of the various methods of electric traction in use throughout the world. It was found that the overhead-wire system was being almost everywhere adopted in preference to all others, inasmuch as it possesses the advantages of comparative lowness in initial cost with a proved efficiency and cheapness in working.

Contracts for most of the materials required for the construction and equipment of the line are now in course of execution. The contract for the steam-engines and generators has been placed with an American firm who have a world-wide reputation for the manufacture of this special class of machinery.

HARBOURS AND RIVERS, WATER SUPPLY, BRIDGE CONSTRUCTION, WATER CONSERVATION.

As Mr. Darley's report, as well as those of the several Assistant Engineers, furnish details of the various works completed and in progress during the year, I need only draw particular attention to a few of the larger undertakings.

Improvement of Northern Rivers Navigation.

The various schemes for the improvement of the entrances to the seven principal northern rivers, by means of the construction of guide-banks, training-walls, and breakwaters, have made good progress during the year.

Tweed River.—The training-walls at the entrance to this river have now a total length of 28,700 feet, the additions made during the year being as follows:—

No. 5 wall... 240 feet. No. 2 wall... 2,520 feet.

The total expenditure for the year in connection with this river was £6,151.

Richmond River.—Steady progress continues to be made with the extension of the breakwaters, 460 feet having been added to the northern and 574 feet to the southern, during the year. The many tributaries of the Richmond River have also been the subjects of improvement works in the way of snagging operations and the construction of fascine banks where necessary. The North Creek Canal, which has a length of $2\frac{1}{4}$ miles, was formally opened for traffic on 20th July, 1896, and that section of it lying between Tintenbar Road Bridge and North Creek is now being enlarged to a width of 60 feet. The amount expended on the Richmond and its tributaries during the year was £26,137.

Clarence River.—With the exception of extending the north training-wall a further distance of 60 feet, the work carried on at the entrance to the Clarence River has been principally of a preparatory nature. It has comprised the work of getting the plant, roads, &c., into proper order, making a new cutting into the quarry, and erecting a wharf on Freeburn Island for loading stone into the punts, together with a coal wharf and bunker. When these preparatory operations are completed, the work of extending the north training-wall will be continued, and a start made with the construction of the Goodwood Island guide-bank. The expenditure for the year in connection with the Clarence and its tributaries was £13,840.

Satisfactory progress was made in extending the various training-walls at the entrances to the Bellinger, Nambucca, Macleay, and Manning Rivers. The breakwater designed to form a harbour of refuge at Trial Bay has been extended a further distance of 60 feet, making the total length now constructed 600 feet, out of a proposed ultimate length of 2,000 feet. The average number of prisoners employed on this work was 116, and the year's expenditure amounted to £4,331.

In the Appendix will be found plans of the entrances to all the above-mentioned rivers, showing the entire schemes as proposed and the sections carried out up to 30th June, 1897. The total expenditure incurred in connection with these various works up to that date has been £720,000.

It is scarcely necessary for me to point out here that the improvement of these rivers, by making them serviceable and convenient for purposes of navigation, is a matter of vital importance in the development of the Colony. They form the natural highways of some of the richest and most fertile portions of the Colony, and for many years to come must constitute almost the sole outlets for the trade and commerce of the Northern districts. The moneys expended on their improvement may fairly be considered as analogous to the large amounts yearly spent on the construction and maintenance of roads in the other parts of the Colony.

Newcastle District.

The regular work of maintaining and improving the efficiency of Newcastle Harbour by removing reefs, dredging, reclamations, alterations and additions to the wharfage accommodation, &c., has been steadily pursued during the year. Extensive preparations have also been made for the construction of the Southern Breakwater and guide-wall.

A long-felt want in the proper working of the port has been met by handing over to the local Marine Board the Government steamer "Ajax," which has been converted into a pilot-steamer of the first class, and will no doubt prove to be a valuable addition to the equipment of this important harbour. The work of conversion was wholly carried out at the Fitzroy Dock Workshops. A photograph of this handsome steamer is given as an illustration in the Appendix.

Sydney Harbour.

A reference to Mr. Darley's report will show that a very large amount of work has been accomplished during the year in connection with the various wharfs, jetties, berthing facilities, and reclamations in Sydney Harbour. A notable addition to the wharfage accommodation has been begun at Darling Island, in order to meet the constant demand for shipping-berths. The proposed new wharfs in Woolloomooloo Bay have already been bespoken, and it has, therefore, been found necessary to utilise the water frontage of Darling Island for wharf purposes. It has been decided to build a quay-wall, composed of monolithic blocks of concrete, round the island, a length of about 2,500 feet, and the construction of the first section of 450 feet has been commenced. All the wharfs hitherto constructed have been formed of timber, but the site round Darling Island is specially suitable for the building of a concrete wall, as the bottom is all sound rock at a depth of about 28 feet from low water. The initial cost of such a structure will be considerably greater than that of a timber wharf, but the permanency of the wall and the consequent saving in the matter of renewals and repairs will, it is thought, in the course of a few years more than compensate for any excess in the first cost of the work.

Proposed South Coast Harbour.

A scheme for the construction of a deep-water harbour at Port Kembla has occupied a good deal of Mr. Darley's time and attention during the past year. The want of a sheltered coast harbour where vessels might safely load and unload in all states of the weather has long been held to be a serious obstacle to the development of the coal trade and commerce of the Illawarra district, and the general consensus of opinion pointed to Port Kembla as the most suitable and convenient site for the construction of such a harbour.

The scheme designed by the Department provided for the construction of two breakwaters—one, the eastern, to be 2,800 feet in length, and the second, or northern, to be 3,530 feet in length—which would enclose an area of 260 acres, having a depth of 24 feet and over at low water, and 30 feet over half the area when dredged out. The estimated total cost of the proposed works, exclusive of the purchase of land and private rights to existing jetties and Railway lines, was £440,000.

The scheme was in due course referred to the Parliamentary Standing Committee on Public Works who, after an exhaustive inquiry, recommended the construction of the eastern breakwater only, as being sufficient for present requirements, at an estimated cost of £200,000. The matter has now to come before Parliament for a final decision.

Dredge Service.

The total dredge plant possessed by the Department at the present time comprises 14 ladder dredges, 8 sand-pump dredges, 7 grab and sand-pump dredges, 12 grab dredges, 25 tugs, and 76 silt-punts. As will be seen from the tabulated statements attached to the report of the Superintendent, the work accomplished during the year has been of a highly satisfactory character. More especially has

mention to be made of the results achieved by the sand-pump dredges. Through their agency there is every year brought into existence a large area of reclaimed land-principally in Sydney and Newcastle Harbours-which constitutes a most valuable asset in the public estate of the Colony.

In order to more expeditiously deal with the shallow bars existing at most of the Northern River entrances, the Department has now in course of construction on the Clyde, Scotland, a twin-screw dredge of 700 horse-power, designed to load herself when steaming slowly over bars, and to draw, when laden, not more than 5 feet, yet powerful enough to contend with heavy seas. This vessel will carry on the work of deepening the river entrances by means of a suction pump worked while she is slowly steaming in or out over the bar; the spoil will then be deposited at sea or some other suitable place. Judging from American experience with a similar kind of dredge, this new vessel should prove a valuable addition to our existing dredgeplant.

Fitzroy and Sutherland Docks Eestablishment.

In addition to the large amount of general repairs and renewals effected in connection with the dredge service and other divisions of the Harbours and Rivers Branch, as detailed in the report of the Principal Assistant Engineer, this establishment has during the past year satisfactorily carried out the work of converting the s.s. "Ajax" into a pilot steamer for service at Newcastle, and the grab dredges "Delta," "Eta," "Theta," and "Gamma" into combined grab and sand-pump dredges.

The facilities here afforded for the docking of the war-ships and the huge merchant steamers that visit Sydney are yearly becoming more appreciated, and help considerably to bring trade to the port. During the year fifteen war-ships, nineteen merchant steamers (some of them, such as the German mail-boats, being of immense size), and two sailing vessels,—the aggregate tonnage being 121,713 tons,-made use of the Sutherland Dock for the purposes of overhaul and repairs.

Metropolitan Water Supply Construction.

A new high-level covered reservoir, capable of holding 17,000,000 gallons of water, is being constructed on a site in Centennial Park. It is intended as a substitute for the existing Paddington reservoir, which has been found to be too small, and at an elevation too low to give a proper supply of water to the important and thickly-populated portions of the city and suburbs now fed by it. The new reservoir will occupy an area of about $3\frac{1}{3}$ acres, will be oval in form, and a special feature in its design will be a groined coke-concrete roof. An intersecting wall will divide the reservoir into two compartments, so that at intervals the one can be cleaned while the other maintains the water supply. The reservoir is to be finished in April, 1898, and when all complete the top of the roof will be grassed over so as to form a promenade or be used for other recreation purposes. The total cost of the work, including the expenditure on the necessary new mains, valves, &c., will be about £65,000, of which the sum of £22,941 had been spent up to 30th June, 1897.

Country Towns Water Supply.

During the year water supply works were completed for the towns of Armidale and Parkes, and the construction of water supply works for Tamworth was in progress. These are all gravitation schemes, and in each case the concrete dam for the storage reservoir has been carried out by day labour.

At Tamworth the great fall available will be utilised for the purpose of furnishing power for the lighting of the town by electricity. 14-B

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The additional scheme now completed for the Parkes municipality was rendered necessary by the failure of the original drift-bed pumping scheme. Owing to a similar cause, additional sources of supply will require to be provided for Cootamundra and Bathurst, and in both cases it is proposed to adopt gravitation schemes.

Plans and estimates have been prepared for gravitation schemes for Tenter-field, Mudgee, Picton, Wollongong, and Wellington.

Bridge Construction.

During the year, 124 new bridges (including 53 renewals) were completed and opened for traffic, aggregating 13,483 feet in length, and consisting of 357 plain timber beam spans, 20 timber truss spans, one steel lift span, and 4 masonry and brick arch spans. With the exception of the steel lift span at Swan Hill and the three steel spans at Wallis Creek, Maitland, all these bridges are constructed of timber, though in many cases iron or concrete piers and abutments have been used.

The most important of these new bridges were the following:-

Swan Hill Bridge over River Murray, which has been erected at the joint expense of this Colony and Victoria. At this point on the river there is a large amount of live-stock traffic, which hitherto was carried by a hand-power punt, and the want of a bridge has been long and severely felt. Counting from the river source, it is the tenth bridge spanning the Murray, and is the most westerly point on the river touched by the Victorian railway system. It has a total length of 381 feet, and the cost of the structure, excluding incidental expenses, has been £7,626, half of which is defrayed by the colony of Victoria.

Inverell Bridge over the M'Intyre River was completed and opened for traffic in July, 1896, replacing the old and very narrow bridge which formerly crossed the river at this town. Its total length is 440 feet 9 inches, with a 24 feet roadway, and its cost, excluding incidental charges, has been £8,939.

At 30th June, 1897, contracts were in progress for the erection of sixty-one new bridges, having an aggregate length of 10,970 feet, and the total estimated cost being £73,462. Chief amongst them may be mentioned the suspension bridge over the Kangaroo River at the point where the Moss Vale-Nowra coach road crosses the gorge in which the river flows. This is the first suspension bridge erected by the Department, the site being admirably suited for this description of bridge. The formation is of solid sandstone, offering an excellent anchorage for the cables as well as an unlimited supply of excellent stone for the masonry piers. The depth of the gorge, too, renders the suspension type of bridge the most economical. The work is well advanced, and its completion may be expected in March, 1898; the estimated cost is £8,000.

Another important bridge now in course of erection is the bridge over the Hunter River at Morpeth, which will take the place of the hand-power ferry at present carrying the traffic. It will have a total length of 815 feet 9 inches, with an 18-feet roadway, and is estimated to cost £9,000.

Water Conservation and Irrigation.

The most important event in connection with this branch during the past year has been the passing of the Water Rights Act. Successive Governments have admitted the necessity for legislation dealing with water rights, as it was recognised that British enactments did not meet the requirements of this Colony, more especially

of the Central and Western Divisions. The utility and importance of the Water Rights Act, which became law on 1st November, 1896, were strikingly exemplified by the fact that, before 1st February, 1897, 471 applications for licenses for dams, pumping engines, &c., had been received. In connection with these applications it is satisfactory to note that the security afforded by the Act is inducing landowners to construct a better class of work than they were formerly willing to undertake, as the circumstances now warrant a greater outlay on account of water conservation purposes.

The completion of the lock and weir in the River Darling, near Bourke, marks an important advance towards the better utilisation of our western rivers. Owing to the unstable character of the channel of the River Darling, and to the great diversity of conditions, ranging from an almost dry bed to high floods, it was a matter of considerable difficulty to decide on a design for lock and weir which would be sufficiently substantial to withstand the varying conditions, and yet keep within reasonable limits as regards cost. The class of weir constructed at Bourke is an entirely new departure in the Australian colonies, and may be regarded as partaking largely of the nature of an experiment. The reports received from time to time since the lock and weir were brought into operation tend to show that so far the works are a thorough success.

The investigation by Colonel Home, R.E., of the whole question of water conservation and irrigation throughout the Colony was completed by that gentleman within the year for which his services were specially engaged. Briefly stated, the effect of Colonel Home's report is that there is only one large scheme of water conservation and irrigation which merits immediate attention. This is the proposal to divert the waters of the Murrumbidgee through the plains which extend between that river on the north and the Billabong Creek and Edwards River on the south. Colonel Home, however, was of opinion that irrigation settlements, such as are being created at Hay and Wentworth, gave fair prospects of proving successful. Such works would also help to popularise irrigation, and to introduce improved methods of cultivation. The development of irrigation is, in the opinion of Colonel Home, a comparatively slow process, and, being a new industry in the Colony, a little caution in expanding it can do no harm, and may save a good deal of money and trouble.

In regard to the irrigation scheme at Wentworth, the Trust created under the provisions of the Wentworth Irrigation Act has been dissolved, and the powers conferred by the Act assumed by the Government. The pumping plant has been erected, and the channels completed. It is intended that the administration and future extension of the works shall be retained in the hands of the Government until satisfactory arrangements can be made for management by the settlers themselves.

GOVERNMENT ARCHITECT'S BRANCH.

It will be seen from the report of Mr. Vernon, attached, that the expenditure for the year in connection with this Branch reached the amount of £250,152 6s. 8d., the number of separate structures dealt with being 583.

The new buildings completed during the year comprised :-

4 Post and Telegraph Office	es, cos	ting		 £6,362
3 District Lands Offices, co	sting	***		 11,184
6 Court-houses, costing	814.8		***	 34,833
5 Police Stations, costing	1.4		***	 7,897
6 Lock-ups, costing			12.70	 10,165

Special

Special mention may be made of the handsome and commodious court-houses erected at Parramatta and West Maitland. Both buildings have been carefully designed to meet all possible requirements as regards the accommodation and convenience of the Judges and others who have to transact business therein, and they may fairly be held to be in advance of previous efforts in this description of building. Photographs are given in the Appendix of the Parramatta court-house, the Dubbo and East Maitland lands offices, and of the Mount Victoria post-office, the last named being recognised as a model type of building suitable for the Mountain districts.

Several extensive additions and improvements to existing buildings have been completed during the year. The Supreme Court has been enlarged by the addition of two fully-equipped court-rooms and a range of chambers and offices for the accommodation of the Judges and their Associates. Additions have also been made to the Chancery-square Court and the Custom House, the latter being required to accommodate the staff connected with the Land and Income Tax branch. A new and extensive hospital building, fitted with all modern appliances, has been added to the Rydalmere Hospital for Insane, and will greatly increase the efficiency of that large establishment.

The more important works in hand at 30th June, 1897, were the following:-

Building.					Description of Work. Expenditure to 30th June, 1897.
Kenmore Hospital for	Insane				£ New Building 88,940
Redfern Court-house	***				New Building
Health Board Offices					New Building 4,810
Art Gallery			***		Additions 9,579
Fovernment Printing					Additions and improvements 18,774
Royal Mint					Additions and improvements 6,612
Treasury			***		Additions 2,642

The Kenmore Hospital for Insane, which was commenced in 1894, will be a very prominent addition to the public buildings of the Colony. The final completion of the whole scheme of buildings will not be accomplished for some considerable period. In the meantime, however, such divisions of the institution as are finished are at once utilised and occupied by patients.

The additions being made to the Government Printing Office, the Royal Mint, and the Treasury are in each instance required to meet the urgent necessity for increased accommodation.

Mr. Vernon, in his report, reiterates his previous warnings as to the danger of allowing public buildings in the country districts to drift into a state of dilapidation through want of periodical attention. The Branch has now under its care close upon 1,000 separate buildings and structures scattered all over the Colony, and Mr. Vernon's observations with respect to the insufficiency of the sum taken on the annual Estimates to keep existing buildings in a proper state of repair are deserving of serious consideration.

The preparation of designs and plans for the proposed new Houses of Parliament for the Colony has during the year occupied much of the time and close personal attention of Mr. Vernon and of a special staff of assistants.

The inadequacy of the present building in respect of accommodation and convenience has long been admitted. So far back as 1860 competitive designs for new Houses of Parliament were invited by the Government of the day, but, beyond receiving

receiving the designs and awarding the premiums, no further action was taken in the matter. A portion of the present building was brought into use as a Legislative Chamber in the year 1829, and since that date it has continued to be repaired and added to as circumstances demanded. Some of the more recent additions are in every respect satisfactory; but, taken as a whole, the building is unsuitable for present requirements, is a constant source of heavy expense for repairs, and, owing to the greater portion of it being constructed of wood, is subject every day to the imminent risk of destruction by fire.

The designs and plans submitted by Mr. Vernon for consideration by the Parliamentary Standing Committee on Public Works provided for a Council Chamber with accommodation for eighty members or more, and an Assembly Chamber for 182 members, with a capacity for increase of accommodation suitable for 294 members. They also provided for additional special accommodation for His Excellency the Governor, the President, the Speaker, the Ministry, and the members of both Houses. Much improved accommodation was also made for the Hansard staff, reporters of the Press, Parliamentary officials, and the general public. Compared with the existing building, Mr. Vernon's scheme showed an increase of thirty-three in the number of rooms and of 32,648 feet in the superficial area.

At the request of the Committee, Mr. Vernon prepared two additional designs, one for altering and improving the accommodation in the present building, at a cost of from £10,000 to £15,000, and the other for a new building which could be erected for about £250,000. Since the close of the year under review the Committee has completed its inquiry, and has recommended the adoption of the scheme submitted by Mr. Vernon providing for alterations to the present building at a cost not exceeding £15,000. In the opinion of the Committee, the existing building, with the proposed alterations, should suffice for the business of Parliament for many years to come, and, therefore, the erection of new Houses of Parliament may be deferred.

ROADS AND BRIDGES.

The Principal Assistant Engineer for Roads (Mr. Scarr), in his report, attached, gives a succinct statement of the ever-growing volume of operations carried on by his branch. He also furnishes a large amount of statistical information respecting the roads mileage, the number of bridges of different kinds, culverts, &c., under the charge of the Department, together with details of the expenditure incurred thereon during the year.

The following statement summarises, in tabulated form, the roads mileage, the number and length of bridges and culverts, and the year's expenditure at 30th June, 1897 and 1896, respectively:—

	Roads.	В	ridges.	Ci	ulverts.	Total* Branch	
Date.	Mileage.	No.	Length in feet.	No.	Length in feet.	Expenditure for year.	
1897—30th June	 39,874	2,842	267,964	32,671	486,907	£ 676,210	
1896—30th June	 38,952	2,771	260,519	31,073	461,578	776,400	
Increases during past year	 922	71	7,445	1,598	25,329	£100,190 (Decrease.)	

^{*} Includes expenditure on new bridges completed and in progress.

It will be seen from this table that, while the roads mileage and the number of bridges and culverts show a very considerable increase over the preceding year, the total expenditure of the branch for the year has decreased to the extent of £100,190. On this point, Mr. Scarr remarks that expenditure has been strictly confined to the most urgent requirements, and the cost of maintenance reduced to the lowest possible limits, compatible with efficiency.

Notwithstanding this diminished expenditure, the state of the roads generally is fairly good, due, in a great measure, to the fair weather conditions prevailing during the year.

The serious injury done to our roads by the carriage of heavy loads on waggons with narrow tyres, shows that legislation in connection with the regulation of the width of tyres is urgently required. The expenditure upon repairs rendered necessary from this cause is a heavy burden on the resources of the Department, and deserves prompt attention.

During the year, 1,038 miles of roads were cleared, and 666 miles wholly or partially constructed; also, about 5 miles of culverts and 6 miles of causeway were constructed, and 5,008 rods of fencing erected. Four hundred bridges were repaired, and 53 wholly renewed at a cost, respectively, of £29,298 and £36,850.

There were also under the charge of the branch 97 punts, 1 steam-launch, 4 horse-boats, 69 flood-boats, and 120 other boats, generally used for ferry purposes.

The monthly average number of men directly employed by the branch was 1,504, while contractors and their men averaged 5,200, making a total of 6,704 men constantly employed in connection with the roads and bridges of the Colony.

The system hitherto in force in connection with the collection of tolls upon the ferries worked directly by the Department has, for some time past, been regarded as unsatisfactory. A method of registering the number of ferry passengers, by means of tickets, was therefore brought into operation during the year, and it is anticipated that the new system will tend to stop the leakage in revenue, and thus help to mitigate the considerable yearly loss incurred in the working of the ferries.

In the report of the Assistant Engineer for Bridges, reference is again made to the desirability of more freely using stone and iron in the construction of bridges, with a view of diminishing the frequency and, as a consequence, the cost of repairs. I am still of opinion, however, that, although in some cases it may be advisable to build masonry or iron piers, it is on the whole more economical to make use of the unrivalled native timbers at our disposal in the erection of bridge structures.

SEWERAGE CONSTRUCTION.

The very complete report furnished by the Engineer for Sewerage Construction, which will be found in the Appendix, renders it unnecessary for me to refer in detail to the many important works which have been in progress during the year now under review.

This Branch was placed under the direction of Mr. J. Davis, M. Inst. C.E., formerly Principal Assistant Engineer, on 1st July, 1896, and since that date it has been carefully reorganised, a number of competent officers added to the staff, and energetic efforts made to grapple with the urgent requirements of the metropolis

and some of the larger country towns. During the year thirty-two contracts were got out, the value of the work designed amounting to £329,015, while, in addition, the plans and drawings for works valued at £70,560 were in course of preparation.

The result of the year's efforts has been to bring within measurable distance the completion of the scheme for sewering the Metropolitan area. The works as authorised by Parliament in the year 1888, subject to some slight modification in the original plans, may now with some confidence be reckoned upon to be completed in about three to four years from this date.

Included in the appendix will be found a map of Sydney and Suburbs showing all the main sewers constructed and in progress, and also the proposed sewers which are required to complete the general scheme.

The total expenditure incurred in connection with sewerage works during the year amounted to £128,710 17s. 10d.

Among the works undertaken during the year calling for special mention are those in course of construction for the treatment of sewage at the main outfall of the North Shore sewerage system. They are situated at Willoughby Bay, an arm of Middle Harbour, and are the first of their kind attempted in the colonies. They embrace screening and mixing chambers, settling tanks, sewage filter presses, refuse destructors, and sand filters. They have been designed on the most modern system, and it is anticipated that when finished they will be the means of treating the sewage most completely.

Recent experiments on a large scale have been very successfully carried out in the city of Exeter during the year, which will probably be the means of simplifying the treatment of sewage.

Briefly stated, the system is as follows:-

The sewage is run into large covered tanks called "Septic tanks," and then is allowed to decompose. This decomposition is carried on, as all other fermentation or decomposition is, by the aid of micro-organisms which break up the sewage from complicated organic matter to more simple forms, which are readily acted upon and further decomposed whilst passing through the filters forming the second portion of the process. The effluent, after passing through the tank and filters, is stated to be sufficiently purified to be allowed to flow away without the slightest danger of any nuisance being created.

It will thus be seen that one of the greatest difficulties encountered hitherto (except in such cases as where sufficient area of land for broad irrigation is available) namely, the disposal or destruction of the sludge, has apparently been overcome, as in the "Septic" system, there is practically no sludge, all solids being so finely broken up that the filter can readily deal with them. Therefore it becomes no longer necessary to deposit the sludge in settling tanks, with all the after trouble attending its final disposal. The experiments have been followed with much interest, and so impressed is the Department with their importance that the construction of similar works is now under serious consideration.

During the year the question of how best to deal with the sewage from the low-level areas on the foreshores of the harbour has been considered; and, after having been very carefully investigated, it was decided to lift this sewage by means of sewage-pumps, driven by electrical motors.

Comparative estimates were made, taking compressed air, hydraulic, and electrical power, respectively, throughout the system. These were fully reported upon by the Engineer for Sewerage Construction, and the matter was then placed before the Board of Reference, who concurred with the Engineer for Sewerage Construction, and finally decided that electrical power would be the cheapest and most satisfactory.

Twenty-four collecting stations will be required to deal with the foreshores from Balmain to Woolloomooloo, and these stations will be electrically controlled from one central station at Darling Harbour, where a very extensive generating plant is being erected to provide motive power for the tramways. It is on account of the large nature of the works from which power for sewerage purposes will be procured, that this method can be introduced, it is believed, more economically than any other; New South Wales being the first country in the world to undertake such a system.

The power will be supplied by the Railway Commissioners to the Sewerage Department at 1d. per electrical Board of Trade unit; and it is calculated, after taking into consideration the more or less intermittent nature of the work, that we could not procure compressed air or hydraulic power more cheaply.

More than ordinary interest has been attached to the aqueducts carrying the sewage across White and Johnston's Creeks; these structures being built on the "Monier" system, and being the first works of an extensive nature to be carried out on this system in the colonies. They are a pronounced success, and in every way have fulfilled the expectations of the Department.

A special class of work which has been carried on by the branch during the year is the detail survey of the Metropolitan area, Newcastle and suburbs, and other large centres of population, where it is likely that sewerage works will in course of time have to be constructed.

This extensive undertaking was originally commenced in the year 1877 on the recommendation of Mr. William Clark, C.E., who pointed out its absolute necessity as regarded the correct and economical carrying out of sewerage works. Its execution was placed under the administration of the Minister for Lands, who continued to control the same up to 1st July, 1896, on which date it was transferred to this Department. At the same time a number of officers—namely, four surveyors and four draftsmen—who had been employed on this particular duty, were taken over from the Lands Department. Although, owing to the pressure of other urgent demands for their services, these officers are not continuously employed on the detail survey, the branch has been able to keep the work in advance of requirements. The results of their labours, though primarily intended for sewerage purposes, are available for, and utilised by, other Departments of the Government.

Before concluding this review of the year's work of the Sewerage Construction Branch, I deem it a duty owed to the Department generally, and to this branch in particular, to draw attention to the report, dated 21st November, 1896, of the Royal Commission appointed by the Governor-in-Council to investigate certain charges made in the Legislative Assembly affecting officers of the Department, in their dealing with and control of the sewerage contracts held by Carter & Co., and certain other persons.

The charges to be investigated were of serious moment to all concerned, inasmuch as they alleged acts of collusion between officers of the Department and the above-mentioned

above-mentioned contractors with a view to defraud the public Treasury—such as advancing to the said contractors sums of money improperly, without sufficient security, and in violation of the terms of the contract; incompetency in carrying out and administering the contracts; placing documents on the Table of the House in a form calculated to mislead Members of the Assembly; and allowing defective work to be put in the contracts.

The Commission was appointed on 21st May, 1896 (His Honor Judge Murray being sole Commissioner), "to make a full and diligent inquiry touching all questions in any way raised in the Legislative Assembly of the Colony of New South Wales, whether specifically or in course of debate, as to any improper conduct in connection with the contracts, past and present, of Messrs. Carter, Gummow, & Co.; John Carter, D. G. Snodgrass, George Maddison, Peter Ewing, F. M. Gummow, George Forrest, and James Gillan, with the Department of Public Works, and touching the truth of any charges so, as aforesaid, made in connection with the performance or variation (if any) of such contracts, or the conduct of any public officer, or of the said contractors, their agents, or workmen, in relation thereto; and to make the fullest investigation into any charge or matter in relation to the said persons or contracts."

The Commissioner, after a patient and exhaustive investigation which occupied 66 sittings and included the examination of 114 witnesses, furnished a very careful and elaborate report, summing up in these words:—

"Finally, in your Commissioner's opinion, none of the charges brought against Mr. Hickson have been proved by the evidence that has been produced. Your Commissioner has failed to discover in that evidence any grounds for further inquiry; and, in your Commissioner's opinion, Mr. Hickson and the other responsible officers of the Works Department stand exonerated from all suspicion of improper conduct in relation to the matter into which your Commissioner has been instructed to inquire."

It cannot but be gratifying to you as Administrator of this large and important Department, and to the public generally, to find that, after undergoing the most searching scrutiny, the officers of the Department have achieved such an effective vindication from the grave and serious charges brought against them.

LAND VALUATION.

An important change took place in the administration of this Branch, in November, 1896, Mr. J. B. Thompson, formerly valuator, having retired in accordance with Section 68 of the Public Service Act, after thirty-four years' faithful and efficient service. Mr. E. J. Sievers, the present valuator, was appointed to take his place from 15th November, 1896.

Mr. Sievers' report, attached, gives a resumé of the numerous resumptions, valuations, and claims that have been dealt with during the year, the total amount expended in connection therewith being £38,361 3s. 3d.

WATER SUPPLY AND SEWERAGE BOARDS.

The Metropolitan Board of Water Supply and Sewerage has already presented to you its Report for the year, and has therein furnished a full and detailed statement of its operations and financial position. It is accordingly unnecessary for me to do more than draw attention to one or two of the more notable items, which serve to show the magnitude of the interests entrusted by the Government to the Board.

The

The total capital cost of the Metropolitan Water Supply and Sewerage Works stood, at 30th June, 1897, at £6,262,670. In addition to the head works and trunk mains, the Board has under its jurisdiction $946\frac{3}{4}$ miles of reticulation mains, supplying water to a population numbering some 418,000; 256 miles of sewers, and $18\frac{1}{2}$ miles of stormwater drains. The extensions carried out by the Board during the year comprised $55\frac{1}{2}$ miles of new water mains, and $25\frac{1}{2}$ miles of sewers, while existing works received every care and attention, and are reported as being maintained in a thoroughly efficient condition.

In the Appendix will be found a brief report from the President of the Hunter District Water and Sewerage Board of its operations during the year. New water-mains to the extent of 6 miles 517 yards were laid down by the Board, bringing the total length of reticulation mains up to 134 miles 1,088 yards, the estimated population supplied with water being 34,655. The Board also carried out some important improvements and additions to the machinery and buildings at Walka Pumping Station, and these, it is anticipated, will enable the Board to meet the increasing consumption of water. The whole of the works were maintained in good order throughout the year.

GENERAL.

In conclusion I desire to bear testimony to the zeal and efficiency which have been displayed by the staff in every branch, and to express my obligation to all the officers for their willing co-operation in dealing with the diversified and complicated business of this large Department.

> ROBT. HICKSON, M. INST. C.E., Under Secretary for Public Works and Commissioner for Roads.

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(I.)

Report of the Engineer-in-Chief for Railway Construction.

Department of Public Works, Railway Construction Branch, Sydney, 8 October, 1897.

I HAVE the honor to make the following report on the work carried out in the Railway Construction Branch during the year ending 30th June, 1897:—

RAILWAY SURVEYS.

The following work was carried out by the Railway Survey Staff, between the 1st July, 1896, and 30th June, 1897.

Explorations over projected railway routes have been made, and reports furnished thereon, as under:-

Armidale to Trial Bay.
Armidale to Macleay River Heads, via Taylor's South Arm.
Bogan Gate to Trundle and Bullock Creek.
Condobolin to Cudgellico.
Glen Innes to South Grafton, via The Henry, the Little, and Nymboi River.
Hillston to Mossgiel.
Koorawatha to Grenfell and Wyalong.
Narrandera to Colinroobie and Barrellan.

Tenterfield to Casino, via Acacia Creek and Richmond River Valley.

During the year ten trial and seven permanent surveys were completed. Four trial surveys and one permanent survey were in hand, but not finished at the close of the year. Particulars in detail are shown in the Table below.

In order to comply with the instructions of the Minister and the requirements of Parliament, plans and sections of the following lines have been under review, and in many cases entirely new estimates prepared, others being revised where found desirable:—

Belmore to Liverpool.
Belmore to Cabramatta.
Braemar to Mittagong.
Byrock to Brewarrina.
Casino to Lismore.
Colo Vale to Braemar.
Coolamon to Ariah.
Condobolin to Euabalong.
Condobolin to Cudgellico.
Dubbo to Coonamble.
Galong to Burrowa.
Glen Innes to South Grafton.
Grong Grong to Ariah.
Guyra to South Grafton.
Hill Top to Colo Vale.

Mount Kembla Coal Company's Railway, in connection with the proposed Port Kembla Harbour Scheme.

Moree to Inverell.

Mudgee to Coonamble.

Narrabri to Pilliga.

Necropolis Railway, Loop at Rookwood Station.

Pearce's Creek to Ballina.

Singleton to Jerry's Plains.

Tenterfield to Casino.

The Rock to Green's Gunyah.

Warren to Coonamble.

Wollongong to Port Kembla.

Woolabra to Collarendabri.

The proposed railways, Berrigan to Finley and Moree to Inverell, have been under consideration by the Public Works Committee; a large number of wall maps, plans, books of reference, sections and compilations of lithographs have been furnished for their use. Similar information was supplied to the Royal Commission on the projected Railway Extension into the City of Sydney. Plans, &c., have been partly prepared in connection with the following railway proposals, which have since been referred to the Public Works Committee:—

Byrock to Brewarrina.
Condobolin to Euabalong.
Coolamon to Ariah.
Narrabri to Pilliga.
The Rock to Green's Gunyah (now Lockhart).

In anticipation of reference to the same Committee, some drafting work has been done in regard to the following lines:

Gundagai to Tumut. Rosehill to Dural. Singleton to Jerry's Plains. Warren to Coonamble.

The following drawings in connection with the undermentioned authorised lines have been prepared, viz.:—Working plans and sections, proclaimed plans, police district plans and notice tracings, as well as heliographic copies of latter, to accompany notifications of resumptions of land for railway purposes. The photo-lithographic copies of the working plans and sections of the greater number of these lines have been completed:—

Berrigan to Finley. Braemar to Mittagong. Colo Vale to Braemar. Hill Top to Colo Vale.
Darling Island Connection.
Nevertire to Warren. Tamworth to Manilla.

The usual quantity of work, which is always very large, has been done in calculating the bearings and distances for descriptive purposes of the boundaries of land resumptions and connections to same, many of the former being very irregular.

The customary amount of office work, including plans, &c, for the use of the Railway Commissioners, when reporting on proposed lines, deciding on station sites, &c., for the use of the Minister when replying to deputations and Parliamentary questions, and inquiries from the Lands and other

Departments, has been carried out.

The office staff has been during the time under review barely sufficient for the current drafting and clerical work, and, consequently, the arrears of drafting work have been very slightly diminished.

The staff employed in connection with the Railway Surveys consisted on an average of 30 officers, divided as follows:—1 Supervising Engineer, 14 surveyors, and 15 draftsmen.

The following tables show the trial and permanent field operations carried out during the year:—

The following tables show the trial and permanent field operations carried out during the year:-

SUMMARY OF TRIAL SURVEYS.

Preliminary Exploration.	Preliminary Traverse.	Preliminary Levels.	Staking.	Levels.	Check Levels.	Cross Levels.	Details,
m.	m. c.	m. e.	m. e.	m. c.	m. c.	m. c.	m. e.
1783	781 37	572 64	580 44	389 47	177 0	538 56	322 0

SUMMARY OF PERMANENT SURVEYS.

Staking.	Levels.	Check Levels.	Cross Levels.	Details.
m. c.	m. c.	m. c.	m. c.	m. c.
90 10	69 35	70 35	29 56	143 18

DETAILS OF TRIAL SURVEYS.

Title of Line.	Total Length,	Date of Commencement.	Date of Completion.	No. of Surveyors.	Leng Surve duri yea	ng	Tot leng Cor plet	gth m-	Remarks.
Belmore to Liverpool Belmore to Cabramatta Condobolin to Broken Hill, via	m. c. 9 60 4 36 366 40	11 Aug.,1896 26 Oct., 1896 3 Mar.,1896	24 Oct., 1896 15 Jan., 1897 16 Nov., 1896	1 1 5		60 36		60 36	
Mossgiel. Coolamon to Ariah Galong to Burrowa Glen Innes to South Grafton, via the Henry, the Little, and		11 May, 1896 15 Oct., 1896 21 Aug., 1896	30 Sept., 1896 15 Feb., 1897	1 1 2	32 17 70		17	63 64 0	Total length of line approximately, 126 miles 40 chains.
Nymboi Rivers. Grong Grong to Ariah Koorawatha to Grenfell and Wyalong.	32 25 150 0	14 July, 1896 1 Feb., 1897	20 Oct., 1896	1 2	32 61			25 40	Includes alternative line via Bimbi, approximately 60 miles.
Liverpool to Mulgoa	34 0	1 Nov., 1896	*	1	19	47	19	47	Includes alternative line via Cecil-park, approxi- mately 9 miles.
Moree to Inverell—Alternative line, south of the Gwydir		23 Mar., 1896	14 Aug., 1896	2	17	65	44	65	Total length of line, 96 miles and 35 chains.
River and via Ezzy's Crossing. Rosehill to Dural Singleton to Jerry's Plains Wollongong to Port Kembla Woolabra to Collarendabri	22 76	14 June, 1897 1 May, 1896 4 Jan., 1897 16 May, 1896	5 Oct., 1896 6 Jan., 1897 6 Mar., 1897	3 1 1 2	12	77	22 0	60 76 77 56	
Total	891 8				575	69	779	69	

DETAILS OF PERMANENT SURVEYS.

Title of Line.	Total Length.	Date of Commencement.	Date of Completion.	No. of Surveyors.	Leng Survey durin the ye	yed	Len Co plet	gth m-	Remarks.
Berrigan to Finley Braemar to Mittagong Colo Vale to Braemar Darling Island—Connection with	1 72 1 76	27 Nov., 1896 12 June, 1896 17 June, 1896 24 Nov., 1896	16 Feb., 1897 9 Sep., 1896 29 Aug., 1896 8 Jan., 1897	1 1 1	1 1	c. 71 72 76	m. 13 1 1	71 72 76	Includes alternative lin
Hill Top to Colo Vale	3 38	6 July, 1896	30 July, 1896	1	3 ;			38	49 chains in length.
Kiama to Nowra Do	30 53 34 49	26 Oct., 1896 5 Mar., 1897	28 Nov., 1896 12 May, 1897	1	30 4 34 4			53 49	Defining boundaries of portions and railway resumptions from
Moree to Inverell	96 35	2 June, 1897		4	14	0	14	0	(Berry Estate. Mileage, approximat
Nevertire to Warren Tamworth to Manilla	12 33 29 45	10 July, 1896 1 Dec., 1896	2 Oct., 1896 10 Apl., 1897	1 2	12 5 29 4			33 45	only.
Total	225 72				143 8	37	143	37	

RAILWAY CONSTRUCTION.

The following works have been in progress during the year ended 30th June, 1897:-

Narrabri to Moree Railway.

This line is an extension of the north-west branch of the Great Northern Railway from Narrabri in a northerly direction to Moree. The extension commences at Narrabri West Station, crosses the Namoi River and Narrabri Creek on timber bridges, and skirts the northern side of the town of Narrabri, a new station being located at 2 miles 25 chains from the commencement of the extension. The line terminates at Alice-street, Moree, 315 miles 15½ chains from Newcastle.

The length of this extension is 63 miles 72 chains 20 links.

The principal contract was let to Messrs. Smith, Finlayson, and Timms, on 10th July, 1895, the time given for completion was eighteen months, but the opening for traffic did not take place until

1st April, 1897.

The works have all been designed and carried out in the most economical manner. The bridge over the Namoi River comprises three timber trussed spans of 60 feet, with fifty-two additional timber flood-openings of 14 feet each in the approaches. The Narrabri Creek bridge has one span of 60 feet, with transfer three additional flood. with twenty-three additional flood-openings of 24 feet span and twenty-seven of 14 feet span each. The piers of both bridges are of timber piles.

The permanent-way of the main line is laid with 60-lb. steel flat-bottomed rails spiked to ironbark sleepers. In the sidings old iron rails have been used. All the sleepers for this line were supplied and delivered at Narrabri before the works were commenced, under contract with the Sleeper-getters'

Association.

Fencing has for the most part been dispensed with, being used only in the immediate neighbourhood of the stations.

Straying and trespass by stock is controlled by cattle-stops at intersections of roads and boundary lines of fencing.

The level crossings have no gates, but are provided with warning-boards.

The formation of the line is taken as near as possible to the surface in most places, giving a few inches only of embankment, but there are lengths aggregating about 5 miles where the undulations of the surface are too great for the adoption of this method, and the line is carried through a succession of low outlines and banks. of low cuttings and banks.

Station and siding accommodation have been provided at Narrabri North, Edgeroi, Woolabra, Gurley, Tycannah and Moree. Trucking-yards have been provided at Edgeroi, Woolabra and Moree. Water supply has been obtained from the artesian bores at Woolabra and Moree, which automati-

cally fill the 10,000-gallon wrought-iron tanks that have been erected on brick towers at these places, but the artesian water, which contains from 30 to 40 grains per gallon of sodium carbonate, is not satisfactory, as it causes priming.

The works have been carried out in six contracts.

The expenditure in connection with this line has been as follows:-

Construction of li	ine, inc	luding	earthw	orks,	bridges,	and			
culverts, pe	rmaner	it-way	, and Sta	ation	Yards	***	£126,064	1	3
Water Supply at	Woolab	ra and	d Moree	***	***		925	3	6
Station Buildings	and Sta	tion A	appliance	es		***	3,644	7	1
Trucking Yards	***		***	***	***		1,036	14	10
Land Resumption			***	***	***		180	2	9
	m . 1		4 1						-
	Total o	eost to	date	***			£131,850	9	5

Parkes to Condobolin Railway.

The first section, from Parkes to Bogan Gate, was opened for traffic, 15th December, 1896. The

second section, from Bogan Gate to Condobolin, is under construction.

The line passes through country in which the average annual rainfall is about 22 inches. The surface is for the most part flat, and the undulations of the ground are of such a character as to admit of a ruling gradient of 1 in 100 throughout.

The works are of an inexpensive character, and the formation has been kept as near the surface of

the ground as possible.

There are no works of any magnitude on the line, the principal difficulty met with having been in

the provision of a supply of water for the locomotives.

The permanent-way has been laid with 60-lb. flat-bottomed steel rails, spiked to ironbark sleepers, which were provided by the contractor for the construction of the line. In the sidings old iron rails have been used.

Fencing has been erected only in the immediate neighbourhood of stations. Cattle-stops have been placed at intersections of roads and boundary fences to prevent straying and trespass by stock.

The level crossings have no gates, but are provided with warning-boards.

The first section—Parkes to Bogan Gate—has a length of 23 miles 38 chains.

The contract for its construction was let to Messrs. Smith, Finlayson and Timms on 18th February,

1896, for completion within nine months, or by 18th November, 1896, but it was not opened for traffic until the 15th December, 1896.

Station and siding accommodation have been provided at four points, viz., at Brolgan, Nelungaloo,

Gunningbland and Bogan Gate.

Trucking-yards for sheep have been erected at Bogan Gate.

The works were carried out in two contracts, viz., one for the construction of the line, and one for the Station Buildings.

The following is the expenditure to date:-

Construction of the	line	 ***	 	***	£49,113	14	6	
Station Buildings	***	 	 ***	***	979		-	
Land Resumption		 	 		2	10	4	
Tot	al cost	 	 		£50,395	13	11	

The second section—Bogan Gate to Condobolin—has a length of 39 miles 22½ chains.

The contract for its construction was let to Mr. John Falkingham, on 20th July, 1896, for completion within fourteen months, or by the 20th September, 1897, but the opening for traffic will probably be delayed till a few weeks later.

The terminal point at Condobolin will be 329 miles 62½ chains from Sydney.

Station and siding accommodation are being provided at three points, viz.:—At Burrawang, Derriwong and Condobolin.

Trucking-yards for stock are being built at Burrawang and at Condobolin.

On this length provision is being made for a supply of water at two points, viz.:—At Gunning-bland Creek—one of the few suitable places for such work—at a point 27½ miles from Parkes, and 35½ miles from Condobolin. A tank has been excavated near the creek which will contain a supply of 2,800,000 gallons of water when full—sufficient for a two years' supply. A pumping plant and a 20,000-gallon wrought-iron tank, supported on a brick tower, will also be provided.

At Condobolin it is proposed to obtain water from the town supply, arrangements for the carrying out of which have been made. A brick tower supporting a 20,000-gallon wrought-iron tank will be exceeded on the attain ground.

erected on the station ground.

The following are the contracts that have been let for construction of works on this length:—

Contract No. and Work.	Contractor.	Amount of Contract.	Expenditure to Date.
No. 2.—Construction of line	Thomas Lees C. Baker G. Norman J. Allibone C. W. Muller	£ s. d. 33,819 16 1 1,066 11 8 205 0 0 230 0 0 3,276 0 0 136 10 0 270 0 0	£ s. d. 25,171 18 2 637 6 9 206 3 3 250 0 0 37 18 0

The total expenditure on this section to date has been £54,337 12s. 4d.

Jerilderie to Berrigan Railway.

This line is an extension of the Narrandera-Jerilderie branch of the South-Western Railway. A description was given in last year's report.

A triangle has been laid down at Berrigan for turning locomotives, instead of a turntable.

Water for locomotives is obtained from the existing supply at Jerilderie.

A contract was let to Messrs. Smith, Finlayson, and Timms, on 25th January, 1896, for the construction of the line; the time for completion was six months, but considerable delay occurred in carrying out the works, and the opening for traffic did not take place until 14th November, 1896. Length of the line, 21 miles 65 chains.

The total cost to date is as follows:

Construction of	line	***	411			£	37,420	2	6
Station buildings							1,138		
Land and compe	usation	***	***	***	***	***	222	11	10
	Total					e	28 781	9	0

Berrigan

Berrigan to Finley Railway.

This is an extension in a westerly direction of the Berrigan Railway; it has been authorised by Act of Parliament, and a sum of £27,250 has been voted for its construction.

Plans have been prepared and arrangements are being made for putting the works in hand as soon as the conditions as to transfer of the land required by the Act—which is to be without cost to the Government, except in the case of town allotments—have been complied with by the persons interested.

The length of the extension will be 13 miles 62 chains.

The terminal point at Finley will be 447 miles 69½ chains from Sydney.

Finley is situated on the travelling stock route between Jerilderie and Tocumwal, and is surrounded by a tract of country very suitable for cereals, so that the traffic is expected to be of importance. Station and siding accommodation is proposed for three points on the line, including the terminal station at Finley.

Contracts have been let for the supply of about 40,000 sleepers of ironbark and redgum. The permanent-way will be laid with 60-lb. steel rails, spiked to the sleepers.

Nevertire to Warren Railway.

This branch line leaves the Great Western Railway at 341 miles 20 chains and terminates at 353 miles 54 chains from Sydney, a length of 12 miles 34 chains.

The direction of the line from Nevertire is north-easterly, and it chiefly follows the Warren road.

A very large traffic is anticipated from and to the extensive country on the north-east. The construction of this line was strongly advocated by the Railway Commissioners.

The works are being carried out by day labour, under the supervision of an officer of this Branch. The sleepers have been provided partly under a contract with Mr. Thomas Border, of Dubbo, and

The sleepers have been provided partly under a contract with Mr. Thomas Border, of Dubbo, and partly by purchase from the Railway Commissioners.

The works are of a light and inexpensive character, as the country is level, but, as after heavy rains water lies over the greater part of the surface, the formation has been raised higher than is the practice with the other country lines of the same class. There are but two timber bridges of any magnitude on the line, viz., those over Beleringar and Gunningbar Creeks.

The permanent-way is to be laid with 60-lb. flat-bottomed rails, spiked to ironbark sleepers. Old iron rails will be used in the sidings.

iron rails will be used in the sidings.

Fencing will not be used except in the immediate neighbourhood of stations.

To prevent straying and trespass of stock cattle-stops will be provided at the intersection of

boundary fences.

Water for locomotives will be provided at Warren by pumping from the Gunningbar Creek, where

40 chains, and a brick tower, carrying a 20,000-gallon tank, will be erected in the yard.

Station accommodation will be provided at Warren only, and, as this may not remain a terminal station for any great length of time, a triangle for turning the engines will be laid down instead of a turntable.

The estimated cost of this extension is £32,730.

The total expenditure charged to date has been £3,180 16s. 10d.

It is anticipated that the line will be completed and opened for traffic about Christmas.

Tamworth to Manilla Railway.

The construction of this line, which branches off the Great Northern Line at West Tamworth, has been authorised by Parliament, and working drawings are in course of preparation.

The country traversed is of undulating character, and the Peel River is crossed at 12 miles 73 chains from the junction with the main line.

The length of the line will be 29 miles 45 chains, and the estimated cost is £73,170.

The works on the line will be of a light character, as the surface of the ground will be followed as

nearly as the exigencies of the grade and other circumstances will admit.

The most important work on the line will be the Peel River Bridge, which will consist of steel

girders in three spans of 66 feet each, supported on concrete piers, in addition to which there will be seven timber spans of 24 feet each in the approaches.

Station and siding accommodation will be provided at four points on the line, including the terminal station at Manilla.

The permanent-way will be laid with 60-lb. steel flat-bottomed rails spiked to ironbark sleepers.

The line will, for the greater part of its length, remain unfenced.

It is anticipated that the works will be completed in about eighteen months from the date of their commencement.

Railway connection with Darling Island.

As it has been decided to utilise the large valuable water frontage of Darling Island, steps have been taken to extend the Darling Harbour line in that direction.

A contract was let to Messrs. Bromley and Holloway on 29th May, 1897, amounting to £4,348 5s., for the construction of the first portion of this extension which commences at a point 1 mile 17 chains 9 links from Redfern tunnel, and is 21 chains in length.

This contract provides for excavation and formation of a double line as far as Edward-street, for a normant steel bridge with concerns is all arches to come Union street area the realway the full will be

permanent steel bridge with concrete jack arches to carry Union-street over the railway the full width of the street, and for a timber bridge of a temporary character to provide for the traffic along Murray-street.

The time provided in the contract for completion of these works is twenty-six weeks.

The works are now in progress.

Extension of Rookwood Cemetery Branch.

This is an extension of the branch line for about 68 chains beyond the original receiving-house, and it has been constructed in compliance with the wishes of the Trustees.

The end of the original receiving-house has been altered to allow of the line being extended beyond it, and the platform accommodation has been considerably added to.

A second receiving-house and platform have been built at the far end of the extension.

The general work has been carried out by day labour, but the buildings by contract. The full cost of the works has been :-

> Works carried out by day work ... Works carried out by day contract £4,810 0 9 ... 1,752 19 9 ... £6,563 0 6 Total cost ...

The sum voted for this work was £6,700. The balance remaining after completion of the works, viz., £136 19s. 6d., will be utilised for the purpose of improving the water supply.

The works were completed and handed over to the Railway Commissioners on 20th February, 1897.

Water Supply at Mowra, on the Orange to Forbes Railway.

This work was decided on, as was pointed out in last year's report, to supplement the supply of water for locomotive purposes, as the town supply at Parkes had proved unreliable.

The works comprised the excavation of a tank and the formation of a dam, which will impound, when full, \$93,000 gallons of water; also a brick tower carrying a wrought-iron tank of 20,000-gallons

The pumping plant has been provided and fixed complete by the Railway Commissioners.

The works (excepting the pumping plant) were carried out in three contracts, particulars of which are given below :-

... £236 1 4 ... 278 0 0 No. 1.—Excavation of tank No. 2.—Wrought iron tank No. 3.—Brick tower ... *** ***

The total cost, as charged to date, has been £645 12s.

Considerable delay took place before this supply could be made use of by locomotives, as the weather continued dry during the whole summer; they were, however, practically completed by August of 1896.

Proposed Railway Extension into the City of Sydney.

The plans and estimates for the proposed extension of the railway from Redfern to Park-street, as recommended by the Railway Commissioners, and urged in their letter dated 28th April, 1896, were prepared and submitted to a Royal Commission appointed on 22nd December, 1896, to inquire into

and report on the whole subject.

The Royal Commission commenced their duties on the 16th February, and made their report on 1st June, 1897, recommending the adoption of a modification of the Railway Commissioners' scheme, by which the Railway would be extended to St. James' Road.

This proposal has been submitted to the Parliamentary Standing Committee on Public Works for report, and is very shortly to be dealt with by that body.

Manufacture and Supply of 250 tons of Iron Spikes for 60 lb. Rails.

A contract was let to Mr. William Sandford, of the Eskbank Ironworks, on 9th January, 1897, for the manufacture and supply of 250 tons of iron spikes for 60 lb. rails to meet the requirements of lines in progress, and for others authorised. The contract rate is £12 9s. per ton; the full supply to be completed in sixty-six weeks.

Manufacture and Supply of 12 Jib Water Cranes.

A contract has been let for the manufacture and supply of twelve Jib Water Cranes, to meet the requirements of lines in progress, and for stock.

The contract was let to Messrs. Pope, Maher, & Co. on 25th May, 1897, for completion in thirteen weeks, for the sum of £636.

Tenders for Permanent-way Material.

In August, 1896, an advertisement appeared in the Government Gazette inviting tenders for the manufacture within the Colony of 150,000 tons of steel rails. The tenders to be received by the Secretary for Public Works in Sydney, and the Agent-General for New South Wales in London, on 30th December, 1896.

No satisfactory tender was received.

Staff.

The field staff employed in the supervision of the above works during the year under review has consisted of the following:—Three supervising engineers, four field assistants, two cadets.

For the construction of the Rookwood Extension the services of the Supervising Engineer of the

Railway Survey Branch were utilised.
One engineer has been employed during the whole of the year on the case of M'Sharry v. the

Railway Commissioners, now under arbitration.

Inspectors and sub-inspectors for the various classes of work carried out have been employed as required during the progress of the work.

The office staff has consisted of one Supervising Engineer, one Chief Draftsman, and ten TRAMWAYS, Draftsmen.

14-D

TRAMWAYS.

Works in connection with the fol	lowing an	re in pi	rogres	s:	Miles.	Chains.	
Willoughby Electric Tramway				***	2	45	Single track.
George-street and Harris-street	t Electric	Tramy	way		3	20	Double track.
Rose Bay Electric Tramway					1	23	Single track.
Trial surveys with report and esti	mate hav	e been	made	of the			mway proposals
		e been	made	of the	follov Miles.	ving tra	
Tighe's Hill to Waratah			made	of the			Single track.
Tighe's Hill to Waratah Extension to St. Leonards Raily	 way Statio	 on				Chains.	Single track.
Tighe's Hill to Waratah Extension to St. Leonards Raily Ocean-street Cable—Extension	 way Statio	on le Bay			Miles.	Chains.	Single track. Single track. Double track.
Tighe's Hill to Waratah Extension to St. Leonards Raily	way Statio to Doubl l Lake M	on le Bay			Miles. 1 0	Chains. 5 50	Single track.

Willoughby Electric Tramway.

The construction of this tramway was authorised in December, 1896. The starting point is the terminus of the existing cable tramway in Falcon-street, thence the line runs along the North Sydney Road, Mowbray-road, and Penshurst-street to the intersection of Victoria-avenue, Chatswood, a distance of 2 miles 45 chains from the point of commencement.

This being an electric tramway it has been decided to substitute electric traction for cable on the

cable tramway between the power-house and the terminus in Falcon-street, a distance of 60 chains.

An additional generator for the Willoughby tramway, together with the necessary driving gear, is being erected in the power-house at Ridge-street, and will be driven by belts off the main cable engines.

The overhead construction will be similar to that used on the Mosman's Bay Electric Tramway; an

accumulator house will be erected on a Government Reserve at Park-street, Willoughby, and will contain 215 cells and a motor-booster. The estimated cost of this tramway is £16,978.

Owing to the additional rolling stock required for this trainway, it became necessary to increase the accommodation in the car-house at Ridge-street. The necessary alterations are being carried out by day-labour, the switches and crossings for the entrance being manufactured at Cockatoo Island. The estimated cost of the alterations to the car-house and necessary track work is £2,600.

The following list shows the number and particulars of contracts in connection with the construction of this transverse.

tion of this tramway :-

Contract No. 1.—Plastic bond contract completed. Material at power-house, North Sydney. Contract No. 2.—Poles and brackets. Contract let, work in hand. Contract No. 3.—Generator, &c. Contract let, work in hand. Contract No. 4.—Accumulators. Contract let, work in hand.

Tenders under consideration.

Contract No. 5.—Overhead wiring. To Contract No. 6.—Permanent-way, &c. Tenders invited-due 19th July, and since let to Mr. A.

Contract No. 7.—Motor-booster and switchboard. Tenders recommended for acceptance.

George-street and Harris-street Electric Tramway.

The construction of this tramway was sanctioned by Act of Parliament assented to 14th September, 1896.

The tramway commences at the eastern side of the Circular Quay and following the curvature of the Quay passes the wharves of the various ferry companies; thence by way of Queen's wharf to George-street, and along that street to its junction with the existing tramway opposite the Benevolent Asylum, running parallel with the existing steam lines to a point opposite Terminus-street; following the existing steam lines for a few chains it branches off at Harris-street, on which street the line will run until John-street is reached, where it terminates. A junction is provided for with the existing steam tramways running to the Redfern Railway Station. The distance from Circular Quay to John-street is 3 miles 20 chains, and is double track all the way—the length of single track, including cross-over roads and junctions, to be constructed being about 7 miles. Estimated cost, £130,500.

The following list shows the number and particulars of contracts in connection with the construction of this temperature.

Contract No. 1.—Plastic bond. Contract completed; material in Government store. Contract No. 2.—Mannesman Poles. Tender accepted; poles should be here in about six weeks. Contract No. 3.—Steam engines and generators. Tender accepted.

Contract No. 5.—Steam engines and generators. Tender accepted.

Contract No. 4.—Permanent-way, George-street \ Specification practically completed; tenders to be Contract No. 5.—Permanent-way, Harris-street \ invited shortly.

Contract No. 6.—Points and crossings. Under consideration.

Contract No. 6.—Folits and crossings. Under consideration.

Contract No. 7.—Boilers. Tenders close on 12th July. Since let to Messrs. G. and C. Hoskins.

Contract No. 8.—Boiler settings and mountings. Not yet decided.

Contract No. 9.—Switchboard, station wiring and lighting. Under consideration.

Contract No. 10.—Accumulators. Under consideration. Contract No. 11.—Overhead wiring. Plans now ready. Contract No. 12.—Power-house. Under consideration.

Contract No. 13.—Brackets and poles, mountings. Drawings being prepared. Contract No. 14.—Car-house. Sketch plan approved by Railway Commissioners. Contract No. 15.—Travelling Cranes. Drawing in hand. Contract No. 16.—Feeder cables and junction boxes. Tenders invited.

Contract No. 17.—Circulating and feed pumps, piping, &c. Not yet decided. Contract No. 18.—Sea-water supply for condensers. Under consideration.

Of the contracts let up to date, the most important is that for the Steam engines and Generators' contract, No. 3, for which Messrs. H. H. Kingsbury and Co.'s tender has been accepted. Now that this tender has been accepted the contracts for buildings will be pushed on, the sketch plans for the arrangement of power-house and offices being well advanced. The contracts let for boilers, engines, arrangement of power-house and onces being well advanced. The contracts let for boilers, engines, and generators include provision for future conversion to electric traction of existing tramways. The Mannesman poles, which it has been decided to use for carrying the overhead work, will be ornamented in neat design of wrought and cast iron work. The steam-boilers, for which tenders have been invited, are of the same type as those in use at Rushcutters' Bay, which have proved to be so satisfactory in working and economical in consumption of fuel. Land has been resumed between Mary Ann Street and William Henry Street, Ultimo, for the erection of the power-house and car-house required for not only the George and Harris Streets Tramway, but also for the conversion of the whole existing system.

Rose Bay Electric Tramway.

The construction of this tramway was authorised during January, 1897, the point of commencement being the terminus of the King-street to Ocean-street cable tramway at Ocean-street, thence along the New South Head Road to Rose Bay, a distance of 1 mile 23 chains single track. The generators, of which there are two, together with the necessary driving gear, will be placed in the cable tramway power-house at Rushcutters' Bay, being driven by belts off the main cable engines, the current being carried by

armoured cables to the terminus of the cable tramway.

Provision has also been made for working the pumps in connection with the Double Bay sewerage

pumping station, the current being carried by an overhead wire attached to the bracket poles from the feeder-pillar at the Ocean-street terminus.

The overhead construction will be similar to that intended to be used for the George-street and Harris-street electric tramway, the poles, however, being of wood similar to those used for the Mosman's Bay and Willoughby electric tramways.

The following list shows the number and particulars of contracts in connection with the construc-

tion of this tramway :-

Contract No. 1. Plastic bond. Material ordered.

2. Generators. Delivered at power-house.

3. Driving gear. Now being manufactured at Hudson's Bros.

4. Accumulators. Tender accepted.

- 5. Overhead wiring. Drawing prepared.6. Poles and brackets. Tender accepted. 7. Permanent-way. Survey in hand.
- Switchboard and connections. Tenders under consideration.
 Accumulator-room and benches. Tenders invited.

10. Feeder cables and junction-boxes.

Office Staff.

The staff employed during the year under review on tramway construction, inclusive of the office work, comprised one assistant engineer, one surveyor, one engineering assistant, and three draftsmen. Arrangements are being made for increasing the staff, which is at present very insufficient, to cope with the work.

> H. DEANE. Engineer-in-Chief for Railway Construction.

(II.)

Return of Expenditure on Public Works carried on by Railway Construction Branch from 1st July, 1896, to 30th June, 1897.

Work, and where situated.	When commenced.	If finished, actual amount of expenditure.	If unfinished, amount of expenditure to 30 June, 1897.	Amount expended from 1 July, 1896, to 30 June, 1897.		
		£ s. d.	£ s. d.	£ s. d		
Berrigan to Jerilderie	1805		39,049 9 6			
Berrigan to Finley	1895	CALL CONTRACTOR CONTRA	07111			
Cootamundra to Gundagai	1881	***************************************		17,475 8		
Cootamundra to Temora	1890	11 0	21.7	17.11.6		
Culcairn to Corowa	1890		***********	I 12		
	1883	140,270 15 0		0 0		
City Extension			4,872 8 10	996 2		
Goulburn to Crookwell	1883		6,828 1 10	Nıl		
Gundagai to Tumut	1883		36,848 11 2	4 14 10		
Foulburn to Cooma	1881	1,374,610 14 8	***********	Nil		
Foulburn to Wagga	1879	99,573 1 4	************	Nil		
Galong to Burrowa	1884	***************************************	400 12 8	400 12		
Homebush to Waratah	1881	2,145,454 18 10	***********	207 15		
Inverell to Glen Innes	1883		12,070 3 3	115 6		
Kiama to Nowra	1883	361,371 10 9	************	407 7		
Land Claims, Old Lines	1896	744199444444	31 5 0	31 5		
Lismore to The Tweed	1883	901,964 2 11	**********	1,225 10 1		
Land Resumptions	1896		3,768 9 7	3,768 9		
Marrickville to Burwood Road	1890	182,676 17 2	**********	4,084 9		
Molong to Parkes and Forbes	1883	382,037 8 10	**********	819 13 1		
Murrumburrah to Blayney	1881	1,043,960 10 5	***********	Nil		
Nevertire to Warren	1897			2,347 10		
Narrabri to Moree	1883	**********	121,130 14 3	29,073 I		
Nyngan to Cobar	1883	296,273 I 2		Nil		
Orange to Dubbo	1880	26,429 I I		Nil		
Parkes to Condobolin	1895		9,777 2 6	72,639 7		
Rookwood Cemetery Extension	1895		6,693 9 0	4,626 I		
Sydney to Wollongong and Kiama	1881		1,048,800 8 8	117 11 1		
South Grafton to Glen Innes	1883		10,809 15 11	1,252 3		
St. Leonards to Milson's Point	1890		330,308 7 7	2,976 7		
Camworth to Tenterfield	1886	232,888 1 5	33-33 / /	I 4		
Camworth to Manilla	1897	232,000 2 3	1,393 17 1	1,393 17		
Carago to Braidwood	1883	***********	3,365 8 10	Nil		
Trial Surveys		************	0.0.0	AL.		
Wallerawang to Mudgee	1879	926,663 9 3	*********	* 12,403 14 ! Nil		
Wagga to Tumberumba	1883	920,003 9 3	5,353 6 2	Nil		
Fratuities to Retrenched Officers		(2001) 2000 (2000) (2000)	0.000			
Establishment Salaries			***********			
Work done for other Departments			*********	1,454 1		
ora done for other Departments	*****	**********	*********	8,423 13		
Total£	*****	8,280,732 3 7	1,988,124 16 7	185,366 14 1		

^{*} See Statement attached.

SUMMARY.

	£		d.
Loans	175,426	12	7
Revenue	1,516	8	II
Services of other Departments	8,423	13	5
	£185,366	14	II

RETURN of Expenditure on Public Works carried on by Tramway Construction Branch from 1st July, 1896, to 30th June, 1897.

Work, and where situated.	Amount expended from 1 July, 1896, to 30 June, 1897.			Work, and where situated.	Amount expended from 1 July, 1896, to 30 June, 1897.		
Alterations and additions—Car-house, North Sydney Bondi to the Beach Balmain-Forest Lodge Conversion Scheme George-street Electric King-street to Ocean-street Military-road, North Sydney	93 1 34 110 2,222 27	9 0 10 0 15 5	4 10 2	Military-road, Mossman's Bay Newcastle, Tighe's Hill Rose Bay Willoughby Extension Services of other Departments Total£	6,484 1 2,216 919	9 0 7	0 0 8 8 9

SUMMARY.	£	ŝ.	d.
Loans	12,129	9	7
Services other Departments	10	II	9

£12,140 1 4

s. d.

RETURN

RETURN of Public Works carried on by Railway Construction Branch from 1st July, 1896, to 30th June, 1897.

TRIAL SURVEYS.

Work.	Amount expende from 1 July, 1896 to 30 June, 1897.	6,	Work.	Amount expended from 1 July, 1896, to 30 June, 1897.				
Armidale to the Coast Borings for proposed Bridge to North Sydney from Dawes Point. Belmore to Liverpool Berrigan to Finley Bowral to Robertson Barmedman to Hillston Braemar to Mittagong Bogan Gate to Bullock Wharf Byrock to Brewarrina Coolamon to Ariah Cowra to Grenfell. Condobolin to Broken Hill Cudgellico to Hillston Condobolin to Cudgellico Condobolin to Euabalong Dargan's Creek Deviation Dubbo to Coonamble Darling Island Dubbo to Parkes Grong Grong to Ariah Gulgong to Walgett Guyra to South Grafton Gregra to Cudal. Hill Top Deviation	642 6 56 2 20 9 3 0 7 12 3 5 52 9 617 11 37 0 2,231 12 11 4 38 14 73 8 63 5 10 5 611 2 1 6 317 3 1 8 101 18 3 0	77.77	Inverell to Moree Koorawatha to Wyalong Liverpool to Mulgoa Locksley Deviation Mudgee to Gulgong Mudgee to Coonamble Moss Vale to Robertson Mudgee to Walgett Miscellaneous Narrandera to Barellan (Explorations) Nevertire to Warren Narrabri to Pilliga Pearce's Creek to Ballina Picton to Mittagong Rock to Brookong, at Green's Gunyah Rose Hill to Dural Singleton to Jerry's Plains Tamworth to Manitla Tenterfield to Casino Temora to Hillston Warren to Coonamble Woolabra to Collarendabri Wollongong to Port Kembla	4 19 1 203 5 833 68 1 (62 80	12 14 15 3 11 15 15 10 6 15 6 6 12 12 12 12 14 11 15 15 18 19 19 19 19 19 19 19 19 19 19 19 19 19	33 77 88 44 22 33 66 66 66 66 66 66 66 66 66 66 66 66		

TOTAL Expenditure on Railway and Tramway Construction.

Year.	Railways.	Tramways.	Year.	Railways.	Tramways.
	£ s. d.			£ s. d	£ s. d.
857-8	51,467 6 0		1880	1,430,042 15	29,008 19 5
859	73,659 7 11	**********	1881	1,652,978 16	108,026 14 8
860	210,687 0 2	**********	1882	1,695,070 13	3 190,979 0 7
86r	250,017 12 7	**********	1883	2,111,057 9	2 200,835 18
862	248,245 7 10		1884	2,871,684 6 10	105,308 18 10
363	311,787 8 5		1885	2,489,776 12	64,657 17
864	348,707 11 8		1886	2,048,706 13	88,509 18
365	356,234 7 11		1887	1,275,118 15 1	49,509 4 1
366	494,165 7 8	**********	1888	660,885 16	
867	536,327 I 5		1889	257,022 14	5,546 12
868	538,480 16 5		1890	151,788 11 10	25,453 14
869	444,361 2 11	***********	1891	601,507 17	8 82,808 19
870	436,756 12 11	**********	1892	970,030 10	83,260 11
871	282,215 17 7		1893	0 - 0 -	1 133,094 12
872	134,014 8 3		1st Jan., 1894, to 30th	127 1 0	
873	81,063 6 8		June, 1895	474,763 6 10	116,357 11
874	348,180 18 4		1st July, 1895, to 30th	47477-5	1 -1337
875	471,895 4 10	***********	June, 1896	208,154 8	5 6,562 2
876	647,272 5 3		1st July, 1896, to 30th		3 -35
877	589,439 19 1	**********	June, 1897	185,366 14 1	1 12,140 I
0.0			June, 109/11111111111	3/300 44 1	,,,40
878	793,351 4 7	15,227 10 8	Totals £	28,527,850 16	8 1,317,288 8

(III.)

Report of the Engineer-in-Chief for Public Works.

Sir. Sir,

I forward herewith reports of the Principal Assistant Engineers and Superintendent of Dredges on the various works under control of this Branch of the Public Works Department for year ending 30th June, 1897.

The following are the heads of the reports which are attached:-

1. Harbours and Rivers Navigation.

- 2. Metropolitan Water Supply Construction.
- 3. Country Towns Water Supply.
- 4. Bridge Construction and Renewals.
- 5. Water Conservation and Irrigation.
- 6. Dredge Service.
- 7. Surveys, Soundings, and Borings.

Harbours and Rivers Navigation.

Mr. H. R. Carleton, Principal Assistant Engineer for Harbours and Rivers, in his report gives full

particulars of the progress of the various works during the last twelve months.

Satisfactory progress has been made with most of the Harbour works; in some cases, as at the Clarence River and Newcastle, the works are more of a preparatory nature, so that there is not much to show for the year's operations. At the former entrance the south training wall was completed under contract, and it has proved most successful in fixing and maintaining a deep water entrance to the river. Such a thing as a steamer being bar bound at the Clarence River never occurs now,—indeed, the steamer can enter day and night at all states of the tide. Preparations were being made for starting the Goodwood Island training bank.

At Newcastle no actual progress was real with the backeter bett the second starting the contract.

At Newcastle no actual progress was made with the breakwater, but the new quarry was being opened up, the various railways and tramways constructed for carrying stone to the breakwater, cranes and gantries erected for lifting the stone to and from punts, and special punts were being constructed for carrying the stone across the harbour. All these preparations being now in a forward state, the actual work of construction will be commenced immediately.

Authority has been given to commence the construction of a quay wall round Darling Island in Sydney Harbour, with monolithic blocks of concrete, instead of a timber wharf as has hitherto been our universal practice. The site is specially suitable for such a structure, as the bottom is all sound rock at a depth of about 28 feet from low water. The necessary plant is being prepared, and the actual work of constructing the 30-ton blocks has been commenced. A large punt to carry a 30-ton steam crane is being built at Cockatoo Island, so that it will not be long before block-setting can be commenced.

The total expenditure connected with Harbours and Rivers Navigation Works along the coast during the year was as follows:—

during the year was as follows :-

7	Terral Biran I						£	s.	d.
1.	Tweed River Improvements	***	***		***	***	6,151	0	3
	Richmond River Improvements		***	***	***	***	26,137	5	8
	Clarence River Improvements						13,839	17	8
	Bellinger River Improvements		***		***	***	5,546	0	2
	Nambucca River Improvements		***	***	***	***	3,214	14	0
	Macleay River and Trial Bay						13,564	4	0
7.	Manning River Improvements			***		***	10,812		1
8.	Hunter River and Newcastle Ha	arbour		***			40,486		8
9.	Sydney Harbour						46,622	16	5
10.	Reclamation Works, Cook's Rive	r and	Shea's C	reek			37,943	6	5
	Darling River Improvements					***	642		9
	Camden Haven Improvements						97	6	8
	Micellaneous Works at various I					other			
	Departments	***	***	***			87,668	12	5
									_
	77 71			1			292,727	1	2
	Expenditure on account of Dredge Service						79,255	15	0
	Total expenditure on H	Carbou	rs and R	ivers			£371,982	16	2
17 6	, , ,	-	100	100			,,,,,,	1000	W. Salar

The Government workshops at Fitzroy Dock were busily employed throughout the year at new work and repairs and alterations to dredge plant, steamers, harbour works plant, and sundry work for

The most important work of alteration undertaken was the conversion of the tug "Ajax" into a suitable pilot steamer for Newcastle Harbour. This boat has been fitted with a hurricane deck throughout, the old main deck fitted up with cabins for the crew and pilots, electric light laid on all over the vessel, steam steering gear supplied, and the fittings generally made suitable for a first-class pilot boat. The total expenditure at the Dock, most of which is for wages, amounted to £57,479 1s. 10d.

Metropolitan

Metropolitan Water Supply.

The Centennial Park Reservoir-a covered reservoir, designed to hold 20,000,000 gallons, in connection with the Metropolitan Water Supply—is in course of construction. The walls are nearly finished, and a commencement has been made with the groined coke-concrete roof, which is a special feature in the design of this reservoir. When all complete, the top surface will be grassed over to a nearly true level, affording an area of about $2\frac{1}{2}$ acres, which, being part of the City Park, can be used for tennis grounds or other such purposes.

Country Towns Water Supply.

Concrete storage reservoir dams were in course of construction at Armidale, Tamworth, and Parkes, all by day labour, this system being found cheaper and in every way more desirable than by contract for important works of this class. Surveys and plans were in progress for a number of other water supplies, all of which are detailed in Mr. Price's report.

The total expenditure on Water Supply Works during the year amounted to £54,353 13s. 9d.

Bridge Construction and Renewals.

Mr. E. M. de Burgh, Assistant Engineer for Bridge Construction, gives a full report on progress of bridge construction.

One hundred and twenty-four new bridges, with a total length of 13,483 feet, were completed and opened to traffic during the year, while contracts were still in progress for sixty-one others, with an aggregate length of 10,970 feet.

The principal bridges in course of construction were those over the Hunter River at Morpeth, Kangaroo Valley Suspension Bridge, Murray River at Albury, and timber approaches to Gundagai Bridge.

The total expenditure in bridge construction during the year amounted to £158,704 15s. 9d.

Water Conservation and Irrigation.

Mr. H. G. M'Kinney, Principal Assistant Engineer for Water Conservation and Irrigation, reports on works under his charge. Mr. M'Kinney's time has been fully occupied with Colonel Home, R.E., who had been appointed by the Government to examine and report on the various schemes that have been proposed from time to time, and to deal with the question generally. Pending completion of his report, no important work was undertaken, but the contracts in hand were completed.

The total expenditure connected with water conservation works for the year amounted to £32,647

9s. 3d.

Dredging Work.

Mr. A. B. Portus, Superintending Engineer of the Dredge Service, gives a complete report of the Dredging operations.

The sand-pump dredges, of which we now have fifteen at work, continue to give every satisfaction, as an economical and effective class of dredge for dealing with the sand which obstructs most of our harbour and river entrances.

An attempt was made during the year to make a cutting into the Macleay River from the sea where the new entrance is being formed, and the self-propelling sand-pump "Jupiter" was sent to undertake the work. Owing to a long continuance of very bad weather, during which time the dredge had to stand out to sea and ride out two heavy gales, the experiment was only partially successful. Some very useful work was, however, accomplished; but it demonstrated clearly that a dredge, to be suitable for work of this nature, must have wholly independent propelling and pumping engines, and must be a light draft handy vessel with twin screws. Such a vessel has been designed, and a contract entered into for its construction. Some of our ladder-dredges lay idle through the year, the sum available for dredging not being sufficient to keep all the plant at work; the most efficient portion was retained in commission.

Surveys, Soundings, and Borings.

Shortly after the beginning of the year under review the whole of the survey work of the Department, with the exception of the detail work of the Sewerage Construction Branch, was combined and placed under the control of Mr. G. H. Halligan as Chief Surveyor. The change has proved satisfactory, and full details of the surveys, &c., carried out during the year will be found in Mr. Halligan's report.

General.

The whole staff of officers employed under my direction worked most zealously and efficiently throughout the year; without their hearty co-operation the amount of work passed through this Branch could not have been accomplished.

I have, &c., C. W. DARLEY, M. Inst. C.E.,

Engineer-in-Chief for Public Works.

(IV.)

Report of the Principal Assistant Engineer for Harbours and Rivers.

I FORWARD herewith for the information of the Engineer-in-Chief for Public Works my report on the principal works carried out by this branch of the Works Department during the year 1st July, 1896, to 30th June, 1897, classified as follows :-

Works for the Improvement, Maintenance, and convenience of Navigation. Miscellaneous Works.

North Coast District.

Tweed River.

-The total length of these walls is now 28,700 feet with an output of Training-walls at Entrance.-

239,808 tons of stone, at a cost of £26,353, or 26°37d. per ton, The length constructed during the year was 2,760 feet, with 47,338 tons of stone costing £4,352, or 22°06d. per ton.

No. 5 Wall was extended 240 feet to 10,890 feet from Cave Point seawards, its total length, including portion above Cave Point, being 19,010 feet. The total stone used has been 180,154 tons, costing £19,007, or 25°32d. per ton. This has, therefore, taken 9°47 tons of stone and cost £1 per lineal foot.

No. 2 Wall.—This wall was extended 2,520 feet, a total length of 6,320 feet, The total stone used has been 36,097 tons, costing £4,545 or 30.23d. per ton. This wall has taken 5.71 tons of stone and cost 14s. 412d. per lineal foot.

No. 3 Wall.-1,120 tons of stone was placed on this wall to make up for subsidence, but no additional length was built. The length of this wall is 3,370 feet, having taken 23,557 tons at a cost of

£2,701, or 27.53d. per ton, or an average of 7 tons of stone at a cost of 16s. per lineal foot.

The s.s. "Chindera" was wrecked on the bar on 9th September. On 5th October the wreck was blown up with dynamite, only a small portion being left, and up to the present this has not proved an obstruction to navigation.

A small wharf was constructed at Boyd's Bay, six piles for mooring were driven at the Spit, near Government wharf, and sundry small repairs were done to Murwillumbah and Tumbulgum wharfs at a cost of £55.

Byron Bay.

A contract was let for repairs to jetty and fair progress has been made. £1,200 having been paid to date.

One of the mooring buoys having carried away it was replaced, and all anchors, chains, &c., were overhauled and put in good order.

Richmond River.

Northern Breakwater.—This breakwater has been extended 460 feet, being now 2,590 feet from The stone used was 48,983 tons, costing £8,997, or 44.08d. per ton. high-water mark.

Southern Breakwater.—This wall was extended 574 feet with 51,776 tons of stone, costing £8,899,

or 41.25d. per ton. The total length is now 5,926 feet from high-water mark.

Riley's Hill Quarry.—100,759 tons of stone was quarried and loaded into punts, at a cost of £9,325, or 22.21d. per ton, for use on the above breakwaters.

North Creek Canal.—This canal was formally opened for traffic on July 20th, 1896. The grab dredge "Zeta" has been employed widening the waterway between the Tintenbar-road Bridge and North

Creek, and has completed 2,740 feet from the bridge to a width of 66 feet.

Two New Punts for Harbour Works.—These punts, which are being constructed for conveying stone from the Riley's Hill Quarry to the breakwaters, are of wood, and are to carry 200 tons each. One is almost completed and the other should be in a month's time.

South-arm Improvements.—A ti-tri wall, composed of old rails driven 5 feet apart and interlaced with ti-tri, has been built on the left bank of the river, opposite Oakey Creek. The length completed is 360 feet. A small groin of ti-tri saplings driven close together has been put in on the right bank of the river at Oakey Creek, to direct the water from the creek down stream, and another of ti-tri and rails has been put in on the same bank about 100 yards higher up to direct the water on the first-mentioned wali.

At Irvington 235 feet of ti-tri and rails has been put in above the wharf, and a continuation of 565 feet on the same line is now being constructed below the wharf.

Snagging Richmond River and Tributaries.—Work has been done at the following places to the

amount set opposite them:

pposite them.						2	S.	d.
South Arm		 	 	***		1,737	13	6
North Arm		 	 			313	3	7
Levcester Creek		 	 		***	135	11	8
Wilson's Creek		 	 			330	6	5
Emigrant Creek		 	 			342	12	11
Teven Creek		 	 ***			311	7	6
Sandy Creek		 	 			43	2	3
Bungawalbyn W	harf	 ***	 			67	5	5
						£3,281		- 2
						23,281	3	3

A jetty has been in course of construction at East Wardell and is now nearly completed.

Clarence River District.

South Training-wall.—The contract for this wall was finally completed in November, 1896. There was, however, no advance made, as the stone was all used for strengthening the tip head, and other parts, where found necessary. The total length of wall is 12,177 feet, for which 330,768 tons of stone was used, costing, including staging, £69,852, or £5 14s. 9d. per lineal foot of wall. The result of this work has been very satisfactory, there being over 30 feet of water along a good portion of the wall, the bar carrying very seldom less than 12 feet at low water.

North Training-wall.—The work of removing the old wall to low water, and depositing the stone in the new wall, was again carried on by day labour, and a further quantity of 14,305 tons removed, extending the wall 60 feet, making the total length 2,607 feet, with 72,078 tons, costing 23.73d. per ton. The available stone was all used up in November, 1896.

Goodwood Island Training-wall.—The work of getting the plant, roads, &c., into proper order to the most which it was decided should be done by day labour, was comprehened in

for carrying out this work, which it was decided should be done by day labour, was commenced in February. A new cutting into the quarry was made to improve the grade, locomotive shed removed, line at weighbridge lifted; wharf at Freeburn Island for loading stone into punts, and a coal wharf and bunker, are being built, and it is expected that the output of stone will begin very shortly.

Removal of Court House Rocks, Maclean.—The work of blasting and removing this rock was continued, and the total quantity removed to 30th June was 11,740 tons, leaving 13 feet at low water.

South Arm Rocks.—This reef is about three-quarters of a mile from the main river, near Maclean, and a hundred feet channel is being cut through it to a depth of 8 feet at low water. The stone removed was 4,775 tons.

Repairs to Wharfs.-Ulmarra Wharf was repaired, and the approach to Upper Southgate Wharf

was protected by ballast, at a cost of £98.

Macleay River District.

Bellinger River Improvements.

No. 1 wall was extended 204 feet, making its total length to date 3,014 feet; the stone used was 24,216 tons. No. 2 wall was extended 214 feet, to a length of 1,384 feet, with 638 tons of stone. No. 5 wall was commenced, and 1,600 feet of it constructed, with an output of 2,957 tons.

The total length of these walls is now 5,998 feet, and stone used 109,002 tons, or about 18 tons

per lineal foot, costing at contract rate £3 7s. 6d.

The result of these works has been very satisfactory, considering their unfinished state, the channel being now straight out from end of No. 1 wall, with 7 feet at low water on the bar.

Nambucca River Improvements.

North Training-wall.—This wall has been extended 634 feet, with 22,047 tons of stone; the total length is now 968 feet, for 25,025 tons of stone, or about 26 tons, costing £3 10s. per lineal foot of wall. This work is not yet advanced sufficiently to cause any improvement in the depth of water in channel or on the bar.

A new wharf at Bowra was erected at a cost of £507.

Macleay River, New Entrance.

The new channel was dredged to a depth of 10 feet at low water, or an average of about 14 feet depth of excavation, over an area of 10.7 acres; length of channel, 2,000 feet, by 250 feet wide.

South Wall.—447 feet of this wall was made with 15,587 tons of stone.

North Wall.—457 feet was constructed, and 1,980 feet of facing was completed, on north bank. This, with the stone deposited on north side for future use, took 41,625 tons of stone.

The expenditure to date was £9,452, or 3s. 0.75d. per ton on the 57,212 tons deposited.

Twenty-five tip trucks were built, locomotive got ready for work, and a shed erected for it.

The bar has not improved much yet, but all the steamers use this entrance, portion of their cargo being however transhipped into droghers under the shelter of the Trial Bay Breakwater. The average depth on the bar at low water has been 3 feet 9 inches.

A wharf is in course of construction at the end of South Training-wall, and is nearly completed;

its dimensions are 50 feet by 15 feet.

A new wharf was erected at Summer Island on the Macleay River at a cost of £216.

Trial Bay Harbour Works.

17,751 tons of stone were deposited in the breakwater, which was extended from 537 feet to 600 feet, or 63 feet, which included making a washback of 55 feet, which took place during the gale of 5th November, 1896; the depth of water at end at low water is 28 feet. The cost for the year was £3,908, or 4s. 4°85d. per ton. The 600 feet of breakwater has taken 191,303 tons, costing £49,610, being 5s. 2°23d. per ton, or £82 13s. 8d. per foot of breakwater. This price includes running over 29,000 tons of stone under 4 tons in weight to spoil, and also removing nearly 109,000 cubic yards of stripping.

The average number of prisoners has been 116. In additionable to the actual work on breakwater, two

new quarries have been opened up ready for work when required, and all plant, gaol, quarters, &c., kept

in repair.

Repairs to District Wharfs.

Greenhills, Belmore, Gladstone, Maxville, and Long Reach Wharfs were repaired at a cost of £190.

14-E Newcastle

Newcastle District.

Hastings River.

A new wharf 46 feet by 20 feet with landing-stage and shoot from cargo-shed was completed at a cost of £432.

A wharf was erected near the entrance to Morton Creek costing £322.

A wharf at Rawdon Island was commenced.

Camden Haven.

A wharf was erected at Kendall costing £259. Some rock was removed from the channel near the heads at a cost of £90.

Manning River.

North Training-wall.—This wall was extended 587 feet, with 30,833 tons of stone, costing £5,652; total length of wall is now 1,162 feet. The coating in front of wall was completed in October; stone deposited 6,887 tons; expenditure £1,550. The wall has therefore cost, altogether, £11,685 to date, or £10 1s. per lineal foot, and taken 62 169 tons, or 531 tons per lineal foot.

River Training-wall, North Side.—This wall was extended 414 feet, with 23,000 tons of stone, costing £2,799, and is now 834 feet long, for 32,689 tons, or 39.2 tons, costing £4 10s. 3d. per lineal foot

of wall

Ghinni Ghinni Wharf was repaired at a cost of £206. Small repairs were done to Taree Wharf.

Cape Hawke and Wallamba River.

Repairs were done to Tuncurry and Forster Wharfs, and a small wharf was constructed at Wallamba.

Myall River.

A wharf was constructed at Tea Gardens at a cost of £158.

Newcastle Harbour.

The Rock-breaker "Poseidon" removed a portion of the 12-foot rock near Stony Point, excavating

4,400 tons, at a cost of £1,592, or 7s. 3d. per ton.

The Rock-drill "Cliona" was engaged removing rock at the entrance to the new basin, an area of 1,285 feet by 25 feet was blasted to a depth of 4 feet, but none of it was lifted as no dredge was available.

Newcastle Wharfs.

General repairs to the wharfs, which are 11,800 feet long, were done at a cost of £642.

Extensive alterations and repairs to a portion of the Queen's Wharf were carried out, 760 feet being reconstructed and widened 10 feet, making two commodious berths for vessels to load wool and frozen meat, with a depth of 24 feet at low water; cost £5,094.

Two ballast jetties and seven mooring dolphins were constructed at Stockton on the reclamation

line above Callen's Slip.

Breakwaters and Guide-wall.

The railway line from quarry to Wallsend Junction was completed, the quarry was opened up, a 40-ton weigh-bridge erected, shear-legs and other lifting gear fixed, quarry reserve fenced, gantry and sidings in connection with the southern breakwater and guide-wall constructed, railway line from the harbour across Stockton to the northern breakwater partly laid; 17 old waggons were fitted with new wheels, axles, &c., to bring them up to the Railway Commissioners' standard; 20 new tip-trucks were built; a wharf for gantry at Stockton was being constructed; 2 locomotives, 2 30-ton cranes, and other plant were purchased; expenditure, £30,943.

Hunter River.

A new wharf was built at Tomago for the convenience of settlers, at a cost of £443. The Waratah Wharf was repaired, costing £130.

Paterson River.

A small wharf was erected at Woodville, costing £97.

Lake Macquarie.

A small jetty was erected near the Railway Station at Dora Creek for the convenience of fishermen and others, at a cost of £62.

Coal for Northern Rivers.—Arrangements were made for the purchase and despatch of 162 cargoes of coal, weighing 9,538 tons, for the use of dredges, tugs, harbour works, &c., on the northern

rivers. Repairs Shop, Bullock Island .-- A large amount of work was done in connection with repairs to dredges, tugs, punts, and other plant at the workshop at Bullock Island.

Sydney

Sydney and South Coast District.

Broken Bay and Hawkesbury River.

A boat channel was cut between Riley's and St. Hubert's Islands, Woy Woy. Small repairs were done to wharfs at junction of Mangrove Creek, Wiseman's Ferry, Wiseman's Ferry Passenger Landing, junction of Colo River, Sackville Reach, and Careel Bay, Pittwater. Snagging was done at Mangrove Creek and the Macdonald River. Two wooden punts to carry 200 tons each were constructed at Woy Woy for conveying stone across the Harbour at Newcastle to the Northern Breakwater.

Port Jackson.

Wharfs and Sheds.—No. 2 Berth, Circular Quay, west side.—The masonry retaining wall, and ballast filling at the back of this wharf were completed, 1,026 cubic yards of masonry and 16,400 tons of ballast being used. A cargo shed of timber, with a tiled roof, was erected, at a cost of £1,619. Its

dimensions are 200 feet by 40 feet. An office was also erected, costing £223.

Altering No. 3 Berth and Construction of No. 1 Jetty.—This contract, which is for replacing one of the old A.S.N. Co.'s jetties, was commenced in May, and is expected to be completed ready for the

wool season.

No. 3 Berth.—A cargo shed was erected, length 100 feet, width 30 feet, costing £508, and a wharfinger's office for £50. 1,140 tons of material were excavated from the front of this berth, giving 26 feet at low water.

Prince's Stairs.—The necessary alterations to this jetty to fit it for receiving a pontoon were carried out, and pontoon placed in position.

Woolloomooloo Bay.

Alterations and Additions to Cowper Wharf.—This work was finished in August, 1896, and the cargo shed, 175 feet long by 35 feet wide, was also finished during the year.

East Side.—The work of levelling off the resumed land and reclaiming at back of wharf was continued. 8,190 tons of rock was excavated, and disposed of at Rusheutters' Bay, Circular Quay, and other places, as well as 3,850 tons put into the local reclamation, and 2,289 cubic yards of masonry in retaining wall at back of wharf.

The work of completing Nos. 1 and 2 berths, portion of which had previously been erected, was finished in May. The decking of No. 1 berth has been extended on a pile foundation as a floor for the cargo shed, and the shed of timber with a tiled roof, is now being erected. A similar shed is also being constructed on Berth No. 2. A road is also being formed and metalled along the back of these berths.

The Victoria-street Steps were finished during the year, and an iron railing put up.

Darling Island Wharfage.—A contract was let for a new ferry landing to replace one which has to be removed owing to the erection of the new concrete wharf round the Island, which is just being

Deepening at Pyrmont Wharfs.—The work of deepening the eastern beith of these wharfs, north from Pyrmont Bridge, was continued, and 1,980 tons of hard material was removed.

Deepening at Messrs. Geddes and Co.'s Berth, south of Pyrmont Bridge.—This was commenced in November, and during four months 2,990 tons of rock were blasted and lifted; a considerable quantity still remains to be lifted, but no dredge has been available.

Erskine-street Ferry Wharfs.—An awning was erected over the pontoon at this wharf.
Painting and Repairing all Passenger and Cargo Sheds at Circular Quay, Woolloomooloo Bay,
and Erskine-street.—This work was carried out at a cost of £721.

Latrines on Circular Quay and Woolloomooloo Wharfs.—Four blocks of latrines were erected

on these wharfs at a cost of £230.

Pontoon for 6-ton Crane.—A wooden pontoon, 54 feet long, 35 feet wide, and 41 feet deep, is being built for carrying a 6-ton crane for general use in Sydney Harbour.

Fort Macquarie.—A small wharf was built, which is to be used by the Mercantile Explosives

Department.

Wharf Repairs.—The following wharfs have been repaired:—Orient and Messageries Berths; Pyrmont; pontoon, Erskine-street Ferry; Cove-street, Balmain; Blackwattle Bay, Cockatoo Boat Landing, Rodd Island, Cabarita, Mortlake, Admiralty Wharf, Garden Island, Manly Old Wharf, Watson's Bay, and Long Wharf, Botany.

Botany Bay.

Two dolphins were constructed at the Long Wharf, Botany, for the convenience of vessels using that wharf.

Shea's Creek.

The excavation of the lower section above Rickety-street, which started in March, 1896, was finished; 110,777 cubic yards were taken out dry in trucks, and used for levelling the Government property. The pitching of the sides of the canal was continued, 9,300 lin. feet by 20 feet of stone work having been done. The Munni-street sewer was continued to the canal, according to the plans of the Sewerage Construction Branch. A concrete bed was put in at the head of the canal to conduct the waters of Shea's Creek into it. 180 trees received from the Botanic Gardens were planted.

Cook's River.

The banks have been repaired and faced with fascines for a length of 32,648 feet wherever it was found necessary.

Muddy Creek.

This reclamation was carried on by grab dredge, 68,915 cubic yards of material having been spread to formation level. A new bridge was constructed across Bestic-street to replace one damaged by flood water. The banks were repaired with fascines where necessary.

Wollongong

Wollongong Harbour.

Portion of the breakwater which had been damaged by heavy gales was repaired. General repairs to wharfs, coal staiths, cranes, &c., were done.

Kiama.

Wharfs, &c., kept in order.

Ulladulla Breakwater.—Retaining wall to protect the eastern side of breakwater has been constructed, and repairs done to breakwater.

Port Kembla.—Shafts were sunk to prove the existence of the necessary stone for constructing

the proposed harbour works.

Dredge Dock, Shoalhaven.—Repairs to this dock and a small extension were carried out during the year.

Greenwell Point Wharf.—A contract was let for this work, but such slow progress was made that it was taken out of the contractor's hands and finished by the Department.

Moruya Wharf.—This wharf was extended, and a derrick crane erected on it.

Eden Jetty.—Stockyards, 5-ton crane, and latrines, were erected on this wharf. Narooma, Bermagui, Tathra, and Bateman's Bay wharfs were repaired.

Fitzroy Dock Establishment.

		LUZI	og Doc	K LSCC	iousnmer	lt.						
	Work carried out from 1st Ju	lv. 189	6. to 30	oth Ju	ne. 1897	-						
Dw		W 3			,				-			4
DIE	edge Service—	T 11	70 7					£ s.		£	S.	d.
	Docking and General Repairs to				***	***	***	3,055 16	1			
	27 27	Suction	on and	Grab.	Dredges	***		5,811 9	3			
	Docking and Repairs to Tugs	***	***	***				1,100 4	6			
	D	1 7						2,040 3	5			
	Sand Pump Machinery Castings,	&c							10			
	Inspecting Stores, &c		***	***			***					
					***		***	36 15	()			
	New Engines and Boiler	***	***	***	***	***	***	1,040 0	0		150	
									_	13,129	7	1
	Dredge "Delta"—Alterations							1,019 2	8			
	,, "Eta",	***			***			2,584 1	2			
	" "Gamma" "							737 5	8			
	44 Tan **								10			
	"Thata"	***	100		***	***	***		4			1
	,, Ineta ,,			***	***	***	***	3,968 19	Æ	11 1 10	10	6
	Tug "Devening"									11,142	10	8
	Tug "Dayspring"—	1										
	Docking and General Overh	aul				***	***	902 6	9			
	New Engine	***			***	***	***	470 18	9			
	"Boiler							380 0	0			
							_			1,753	5	6
	Tug "Ceres"-Docking and Gen	neral (lverban	1				667 0	1	1,100	0	0
	"Dawn"		VICINAL									
	"Europa"	22		* * *		***	***	407 17	8			
		22		***	***	***	***	220 18	8			
	" "Mikado"	22		***				208 6	1			
	" Old Boiler				***	***	***	192 18	4			
	" Boiler Tubes							12 0	0			
	" "Thetis"—Docking and Ge	eneral	Overha	ul				340 9	4			
	" New Steering G	ear						105 0	0			
	", "Orestes" - Docking and O	verhar	1]		***		***	529 0	3			
	Manning Director	VCI Have		***	***		***					
	Manning River Dock	***	***		***	***	***	24 5	8	0 404		- 2
	"DI 1 " D 1: 1D :						_		-	2,707	16	1
	"Pholas"—Docking and Repairs	***	1.11		***		***			67	0	11
	5-ton Crane "				***			**********		218	17	10
	15 ,, ,, ,,				***			*******		126	7	6
	30-ton Crane Punt-Construction		***							783	7	2
	Spacial Samina Doct for									8	0	3
	"Leila"-Stores and Repairs to	Hull '						205 9	8		0	0
			***		***	***	***					
		***			155	***	***	300 0	8			
	,, Water, Coal, &c.		***	***	w.e.e	***	***	118 2	4			
	D						-		_	623	12	8
		***	***	***	***	***	***	**********		709	8	8
		***								61	16	2
	Byron Bay Jetty Moorings				***	***				22	5	4
	Testing Iron, Steel, &c									151		7
	Floating Stage, Prince's Stairs									54	9	3
	Sha-2- C> P-		***		***	***	***					2
			***		***	***	***	**********		236		
			***		***					1,133		3
	Darling River—Snagging Plant,	dic.	***	***	***	4.4.4	2.57	**********		59	17	3
	Richmond River Improvements—	-Snagg	ing, &c		***		***	*********		147	15	3
	Sundry Work for Head Office		***				***			71	3	4
	" Garden Island				*		***			130	1	7
	Trial Bay Steam Winch, Trucks,		***				***				15	6
	Macleay River-New Entrance,									1,081	3	6
	Harbour and other Surveys, Bori					***	***					2
				to Do	rolning (Coop.	***	*********		224	4	
	South Solitary Lighthouse, Crane	and 1	repairs	to Ke	voiving (Jear				344		11
	Steam-barge "Powerful"—Mach	inery	***	***	***			**********		118	0	1
	Newcastle Harbour Improvemen	ts—Ga	intries,	Tip Ti	rucks, W	mon,	GC.	**********		1,836	7	5
										Fi	tzro	y
												-

Fitzroy Dock Establishment—											
General Work—Pumps, Cranes, &c. 1,564 5 2 2									£	S.	d.
S.S. "Swift "—New Engines, &c. 467 2 1 Boiler, Machine, and tother Shops 632 3 8 Sutherland Dock— 7777 7 0 777 7 1 777	Excavating Rock		***	***	***	***					
Boiler, Machine, and other Shops G82 3 8 Sutherland Dock— Repairs, Machinery	General Work—Pumps, Cranes	, &c.			***	***	***				
Sutherland Dock- Repairs, Machinery 777 7 0 0 7	S.S. "Swift"—New Engines, &	c.	***		***	***					
Repairs, Machinery	Boiler, Machine, and other Shop	S		***		***		632 3 8	Halle Halle		
Repairs and Docking War Vessels	Sutherland Dock—						-		4,103	10	8
Repairs and Docking War Vessels	Repairs, Machinery			***				777 7 0			
Repairs and Docking War Vessels								198 0 4			
Repairs to, and new Cutter for, Rock Breaker, "Poseidon"							_		975	7	4
Repairs to, and new Cutter for, Rock Breaker, "Poseidon"	Repairs and Docking War Vess	els			100			713 9 7			
Repairs to, and new Cutter for, Rock Breaker, "Poseidon" 766 19 3 Water Supplies— Test of Arch, Centennial Park Reservoir 43 11 4 Model, &c., " " " 21 13 7 Pipes for various supplies " 784 17 11 850 2 10	Monohant										
Repairs to, and new Cutter for, Rock Breaker, "Poseidon"	" " "			***			-		1.083	2	8
Water Supplies	Repairs to and new Cutter for	Rock T	Brook	or " Pos	eidon	23					
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Model, &c., , , , , , , , , , , , , , , , , , ,		Rosonvo	in					49 11 4			
Water Conservation— Punt for Bourke, &c. 85 d 0	Model for		11.	***	* * *	***					
Water Conservation— Punt for Bourke, &c. 85 d 0	Model, &c., ,, ,, ,, ,,					***					
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Sundry Departments— S.S. "Ajax "—Altering to Pilot Steamer 6,805 19 8 "Golden Fleece"—Repairs											
S.S. "Ajax "—Altering to Pilot Steamer		***	***	***	***		***	***********	85	4	0
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Conversion of s.s. "Ajax" into a Pilot Steamer for Service at Newcastle.—This vessel, which, owing to the increased use of sand pump dredges, and consequent depositing of silt on shore, and diminution of quantity towed to sea, was not further required for the dredge service, has been converted into a pilot steamer for use of the local Marine Board at Newcastle. She has been covered over with a flush deck, and fitted with commodious cabins for the pilot officers and crew, and with all the latest improvements in electric lighting, steam steering gear, &c. The vessel is now nearly finished, and will probably be handed over to the Newcastle Marine Board about the 1st September. The work was done by day labour at the dock.

Pontoon for 30-ton Crane.—A wooden pontoon, 80 feet long, by 42 feet wide, by 7 feet deep, to carry the 30-ton crane, for lifting the blocks proposed to be used in constructing the new concrete wharf

at Darling Island, is being built.

Additional Boiler-house Accommodation at the Sutherland Docks.—The boiler house was extended for the accommodation of two extra boilers. The new portion is 30 feet by 24 feet, built of brickwork in cement, with pressed-brick facings, white brick and freestone dressings, and trachyte basecourse. The cost was £338.

Grab Dredges "Delta," "Eta," "Theta," and "Gamma."—These vessels have been lengthened about one-third of their original length, by being cut in two amidships and the new portion introduced, and converted into combined grab and suction dredges, to enable them to deal with the various materials met with in the different rivers. The "Delta" and "Eta" are now at work, but the other two are not yet finished.

Lighthouses

Lighthouses, Beacons, Leading Lights, &c.

The annual inspection of the lighthouses of the Colony was made by an officer of the Department accompanying the members of the Marine Board on their usual tour, and a report made on the condition of the various buildings.

South Solitary Island.—A crane was made at the Fitzroy Dock and erected on the Island for landing stores, &c. The revolving gear of lantern was overhauled and repaired.

Tacking Point.—Repairs were done to the light-keepers' quarters at a cost of £60.

Newcastle.—Repairs to quarters were carried out, costing £118. The leading light towers were painted and repaired; cost, £106. A pile beacon to replace the lightship near the pilot boat harbour was erected at a cost of £450. A new tide-gauge house was erected at the pilot station, costing £49.

Macquarie Lighthouse, South Head.—General repairs and painting were done to quarters and

lighthouse at a cost of £203.

Hornby Light.—Water was laid on from the city mains, vane and ventilator on lantern, electric

bells, and keeper's quarters were repaired, costing £40.

New Lighthouse, Point Perpendicular, Jervis Bay.—The light on George's Head having been found not to be in the most suitable position, it was determined by the Marine Board to have a new lighthouse erected, and Point Perpendicular was selected as the best site. A contract was let at the close of the year for the erection of the lighthouse, lantern, three keepers' houses, stables, and a jetty. The walls of buildings are to be of concrete. Contract price is about £11,000. The lantern and revolving apparatused in Evaluated by Marine Bross at a cost of close of the contract price is about £11,000. first order dioptric-was manufactured in England by Messrs. Chance Bros., at a cost of about £4,000, and is now in Sydney ready for erection.

North Coast District. (c)

Richmond River.

Tuckombil Flood Escape.—This work having been abandoned by the contractor was completed by the Department at a total cost of £5,213.

Newcastle District.

Reclamation at Stockton.—The retaining walls were extended 420 feet with 6,225 tons of ballast; total length of wall is now 2,570 feet. Seven acres of reclaimed land were covered with 20,531 tons of

ballast from ships.

Reclamation at Bullock Island.—Retaining walls on Throsby's Creek were constructed—one from Hargrave-street south 644 feet, and one from the railway bridge north 706 feet, partially finished. 104,312 tons of ballast was discharged from 210 vessels at the ballast jetties, averaging 519 tons per ship. It was used for reclaiming Crown lands at the north end of Carington. Reclamation was also carried on by sand-pump dredge, north of Cowper-street, where a valuable area is being reclaimed.

Sydney and South Coast District.

Rushcutter's Bay Sea-wall and Reclamation.—The wall, which is 2,510 feet long, was completed with the exception of the parapet, a boat-slip was constructed, the space behind wall reclaimed, and all drains extended to the water.

Long Cove Reclamation.—The ground has been levelled where reclaimed by the "Groper," and grass planted. The driving of piles along the sides of canal has been completed, 1,230 feet of piles having been driven, making a total of 21,068 feet.

Rozelle Bay.—Ground has been levelled and grassed as filling was completed.

White's Creek.—Banks have been formed to protect private property from overflow of water, tram embankment strengthened, drain-pipes laid along Gordon-street, and drains cut to carry off water from dredge's pipes.

Coogee Bay Sea-wall.—The roadway and footpath at back of this wall were completed.

Naval Station, Garden Island.

The contract for the erection of the boat-repairing shop was completed in September.

The electric lighting of the island, shops, and different houses, which was let by contract and included the supply and erection of three high-speed Bellis engines, coupled direct to Siemen's dynamos, 24 are lamps of 2,000 candle power, and 628 16 candle power incandescent lamps. The installation was successfully completed on May 18th, at a cost of £4,193. A tile floor was placed in dynamo room at a cost of £101.

Spectacle Island .- A contract was let for the construction of a swimming-bath, the erection of a dressing-shed and recreation-room, the alteration of the sanitary arrangements, including a windmill for pumping saltwater. Total cost was £472.

H. R. CARLETON,

Principal Assistant Engineer for Harbours and Rivers.

Dredge Service.

Report of the Superintendent of Dredges.

Sir, Department of Public Works, Sydney, 30 September, 1897.

As it has been decided that the annual reports of dredging operations shall be submitted at the middle instead of the close of each year, I have had a six months' statement compiled, covering the period from 1st January to 30th June of the present year, and also, for the purpose of comparison, a table showing the cost of work from 1st January, 1896, to 30th June, 1897. The reason for showing in one statement eighteen months' work is, that it would be somewhat misleading if the cost of the first six months of a year were compared with that of the whole of the preceding year, as extensive repairs are generally effected during the first months of each year. As future returns will be from the middle of one year to the middle of the following one, the usual comparisons of consecutive years' dredging can,

after 1897, be made as heretofore.

Since my report of April last but few changes have taken place in the working localities of the dredges. The double-ladder dredge "Hunter" was again put in commission in May last and sent to Newcastle to take the place of the sand pump "Jupiter," it having been determined to send the latter vessel to the Macleay Bar to try if it was practicable to work inwards from the sea. An attempt to do this would have been made before had there been any port, within reasonable distance, at which coaling could be effected and shelter obtained during easterly gales. Sufficient progress it was thought had been made with the Trial Bay Breakwater to effect these objects, and the "Jupiter" left for Trial Bay on 23rd June. A start was made with numping at sea outside the bar at the new entrance, and while made with the Trial Bay Breakwater to effect these objects, and the "Jupiter" left for Trial Bay on 23rd June. A start was made with pumping at sea outside the bar at the new entrance, and while reasonably fine weather lasted most satisfactory progress was made; but on 25th July a furious easterly gale arose which swept away part of the breakwater, and the "Jupiter" had to go to sea and to encounter the full force of the storm, returning afterwards to the bay. The tender "Mikado" unable either to cope with the gale or cross the bar sought shelter behind the breakwater, and foundered soon after the outer part of the structure carried away. The boiler and engines of the little vessel have been recovered and a new hull for them has been recommended. Continuous rough weather and the early setting in of north-east winds caused the temporary withdrawal of the "Jupiter" and resumption by that dredge of pumping work at Sydney. dredge of pumping work at Sydney.

Much difficulty has been met with in arranging for a suitable sand-pump for dealing with very

shallow bars, the chief obstacle being the designing of a vessel powerful enough to contend with heavy seas and of light enough draft to carry a cargo of sand over a shallow bar. Self-loading and self-propelling bar sand-pumps have for some time been working in the United States, but there 9 feet is considered a shallow bar. Here only 5 feet is available, but by taking advantage of the latest improvements for lessening weight in boilers, engines, and pumps, the Department has succeded in obtaining a tender in Scotland for a twin-screw dredge of 700 horse-power, designed to load herself while steaming slowly over bars and to draw when laden not more than 5 feet. At such bars as those at the entrances to the Richmond, Bellinger, Nambucca, Macleay, Hastings, Manning, Moruya, &c., this vessel will carry on the work of deepening by steaming slowly in, turning inside, and crossing out to dump her hopper-

on the work of deepening by steaming slowly in, turning inside, and crossing out to dump her hopperload at sea. The two sand-pumps on board, with suction pipes trailing on the bottom, are driven by special engines, so that propelling and pumping go on simultaneously. The new dredge will steam out by way of the Suez Canal, and should be here by August next year.

Reclaiming work at Rozelle Bay, referred to in my last report, has been temporarily suspended to permit of storm-water channels being constructed, and the suction-dredge "Groper" has been employed reclaiming about 9 acres of land at Folly Point, Middle Harbour, in connection with sewage disposal for North Sydney. The "Groper" is now reclaiming land at Rushcutters Bay, and before returning to Rozelle Bay will undertake similar work at the entrance to Tarban Creek.

The "Castor" is being fitted with a very large centrifugal pump, suited for 800 horse-power, to be used for pumping on to reclamation areas at Newcastle the silt lifted by the ladder-dredges which is now deposited at sea. The sand-pump "Theta," recently sent to the Bellinger, is working near the river heads satisfactorily, and a similar dredge, the "Eta," just completed at Fitzroy Dock, will be towed in a few days to Port Macquarie. It is contemplated recommending that two ladder-dredges of the "Minos" type be fitted with sand-pumps, so that they may be used with buckets and shore-delivery pump working type be fitted with sand-pumps, so that they may be used with buckets and shore-delivery pump working the same time or separately as either a ladder-dredge discharging into punts or as sand-pump only delivering sand on to reclamations.

The whole of the plant is being kept in good working condition.

I have, &c.,

A. B. PORTUS.

The Engineer-in-Chief, Public Works.

											Percei	ntage	of wor	king h	ours.		
Ladder Dredge.	Where dredging.	Material lifted.	Tons dredged.	Hours dredging.	Working hours.	Expenditure.	Cost per ton.	Cost per hour dredging.	Cost per working hour.	Dredging.	Coaling.	Removals.	Bad weather.	Waiting punts.	Repairs.	Other causes,	Remarks.
'Sydney'' 'Newcastle'' 'Hunter'' 'Yulcan'' 'Fitzroy'' 'Ulysses'' 'Minos'' 'Pluto''	Newcastle Sydney Newcastle Sydney Hunter River Macleay River Clarence River Shoalhaven River Sydney	Clay, sewage, &c Mud Sewer matter Sand and mud Sand Clay and mud Shingle and sand Sand and mud	164,400 107,990 239,600 6,090 77,360 14,150 123,760 82,600 76,780 93,550		1,357 1,316 1,376 392 1,297 420 1,349 1,295 1,336 1,024	£ s. d. 1,590 6 2 2,207 0 0 2,090 17 5 664 4 3 2,008 14 10 604 18 6 1,153 0 6 1,151 5 1 1,215 14 0 939 11 4 13,625 12 1	26.18 6.23 10.26 2.24 3.34 3.80 2.41	£ s. d. 1 16 2 2 19 0 2 1 9 7 4 5 2 15 3 2 9 5 1 1 5 1 12 1 2 10 4 1 3 6	£ s. d. 1 3 5 1 13 6 1 10 5 1 13 11 1 11 0 1 8 10 0 17 1 0 17 9 0 18 3 0 18 4	64 57 73 23 56 59 82 56 36 78	2 1 1 3 2 3 5 1	2 9 7 3 ² 6 19 6 11 6 6	13 14 2 2 2	5 2 4 35 	6 29 4 43 32 16 7 23 16 15	2 3 I I	Repaired after being laid useveral months. Laid up since February.

STATEMENT of Ladder Dredge Expenditure and Work, 1st January to 30th June, 1897.

STATEMENT of Sand Pump Expenditure and Work for six months ending 30th June, 1897.

							~ .				Percei	ntage o	of wor	king h	ours.		
Sand-pump Dredge.	Where pumping.	Material lifted.	Estimated tons lifted.	Hours pumping.	Working hours.	Expenditure.	Cost per ton pump- ing.	Cost per hour pumping.	Cost per working hour.	Pumping.	Coaling.	Removals.	Bad weather.	Conveying silt to sea.	Repairs.	Other causes.	Remarks.
'Juno" 'Jupiter" 'Actor" 'Alesus" 'Dorus" 'Dictys"	Cook's River Newcastle	Sand and mud Sand	130,880 139,200 194,175 180,000 209,115	905 430 435 863 900 1,162 892 804	1,340 1,359 1,259 1,328 1,334 2,290 1,341 1,338	£ s. d. 1,742 14 10 1,454 1 7 2,617 12 9 1,694 17 11 1,224 4 8 2,519 2 2 1,310 10 7 1,894 1 11	2.27	£ s. d. 1 18 6 3 7 8 6 0 4 1 19 3 1 7 2 2 3 4 1 9 5 2 7 1	£ s. d. 1 6 0 1 1 5 2 1 7 1 5 6 0 18 5 1 2 0 0 19 7 1 8 4	68 32 35 65 68 51 67 60	4 3 4 3 2 3	12 19 16 13			11 14 33 11	 I IO	Includes depositing at sea. Extensive overhaul and r movals.
	Averages				*********		2.25	2 5 3	1 4 11	56	2	12	2	5	20	3	

STATEMENT of Combined Grab and Sand-pump Dredge Expenditure and Work for six months ending 30th June, 1897.

											Perce	ntage o	of wor	king h	ours.		
Grab and Sand-pump Dredge.	Where pumping.	Material lifted.	Estimated tons lifted.	Hours pumping.	Working hours.	Expenditure.	Cost per ton.	Cost per hour pumping.	Cost per working hour.	Pumping.	Coaling.	Removals.	Bad weather.	Conveying silt to sea.	Repairs.	Other causes.	Remarks.
"Rho"	Camden Haven Myall River Cape Hawke Port Hacking and Moruya Bellinger River Averages	do	51,469	1,170 1,030 988 720 406 4,314	1,371 1,359 1,339 1,516 684 6,269	674 8 3 3,798 19 3	2'43 1'01 2'38 3'14	0 I0 9 0 I3 3 0 I4 9	0 10 I	74 48 59	2 2 3	27 37	 3 		9 17	6 2 3 1	Commissioned in April, 1897.

STATEMENT of Grab Dredge Expenditure and Work for six months ending 30th June, 1897.

				0 1					0		-		-	-			
											Percen	tage (of wo	rking l	hours.		
Grab Dredge,	Where dredging.	Material lifted.	Tons dredged.	Hours dredging.	Working hours.	Expenditure.	Cost per ton.	Cost per hour dredging.	Cost per working hour.	Dredging.	Coaling.	Removals.	Bad weather.	Waiting punts.	Repairs.	Other causes.	Remarks.
" Beta"" " Gamma"" " Zeta"" " Iota"	Tweed River Sydney Hastings River Richmond River Nambucca River Hunter River and Lake Macquarie.	Sewage, clay, and rock Shingle	7,115 11,965 3.300 32,220 25,815 13,806	204 921 174 1,179 825 637	1,207 1,099 525 1,357 1,314 1,158	£ s. d. 363 14 6 387 10 8 209 11 7 310 17 4 286 9 2 308 6 9	d. 12.27 7.77 15.24 2.32 2.66 5.36	£ s. d. 1 15 8 0 8 5 1 4 1 0 5 3 0 6 11 0 9 9	£ s. d. 0 6 0 0 7 1 0 8 0 0 4 7 0 4 4 0 5 4	17 84 33 87 63 55	7 1 3 1 4	3 7 38 4 25	I	 3 4	72 6 26 10 16 7	 1 16 4	Long delay through breakdown, Dredged blasted material, &c. Laid up for alteration.
" Mu" " Nu" " Omicron" " Pi" " Chi"	Clarence River	Sand, clay	8,925 28,222 12,484 32,726 13,540 15,050 2,435	1,122 840 663 866 892 483 371	1,370 1,297 1,298 1,324 1,243 948 1,287	357 15 4	6'13 2'88 9'34 2'45 13'16 11'44 35'26	0 4 I 0 8 I 0 I4 8 0 7 9 0 I6 8 I 9 9 0 I9 3	0 3 4 0 5 3 0 7 6 0 5 1 0 11 11 0 15 2 0 5 7	75 65 59 66 72 51 29	I 3 I I	8 2 7 9 5 40 5	5		7 24 17 23 19 7 2	9 4 1 1 1 63	Dredging blasted material, &c. Extensive repairs. do and removal. Dredging rock.
	Averages		207,643	9,177	15,427	5,073 4 1	5.86	0 11 1	0 6 0	58	2	12		2	18	8	

STATEMENT of Tug Expenditure and Work for six months ending 30th June, 1897.

			1								G-4	G-4	Cost	1	Percer	rtage o	of time	0.
Tug.	Where employed.	Tons towed.	Miles run towing.	Miles run special services.	Total working hours.	Hours attending.	Cost of towing.	Cost of special services.	Cost per ton.	Cost per mile towing.	per mile special service.	Cost per working hour.	per	Steaming.	Coaling.	Repairs.	Bad weather.	Other
'Achilles' 'Little Nell'' 'Cyclops'' 'Ganymede'' 'Dayspring'' 'Mikado'' 'Scylla'' 'Callisto'' 'Ariel'' 'Vesta'' 'Europa'' 'Aurora'' 'Galatea''	Sydney do do do Shoalhaven Newcastle Sydney Shoalhaven Lake Macquaric Bellinger River Newcastle Clarence River Hastings River	164,300 240,100 81,250 99,430 22,230 6,300 12,300 15,925 70,240 13,605 5,100 	575 41426 41386 41014 3,208 2,231 710 505 478 892 4,246 1,763 633 	5,191 60 94 1,963 140 124 3,053 3,567 600 3,531 901 2,289 1,485 125 2,145	1,533 1,326 1,354 1,297 1,377 1,046 316 173 1,268 1,367 1,477 1,218 679 1,152 1,298 1,183 1,205 1,005 1,352 1,352 1,352	1,334 1,275 1,351 1,242 1,067 1,021 243 144 1,236 1,193 1,334 1,045 339 1,072 1,104 834 1,168 916 1,045 1,273	# s. d. 114 12 1 569 13 9 598 4 2 407 2 8 500 15 11 343 18 10 126 1 2 155 1 8 39 6 10 84 9 2 431 1 5 176 13 1 236 17 3	£ s. d. 1,300 19 2 5 7 3 7 6 10 312 10 4 10 15 5 25 11 7 346 11 0 414 6 11 81 18 0 162 9 5 75 2 4 133 11 10 124 18 10 23 3 6 145 15 9 3,170 8 2	pence. 2'57 0'83 0'60 0'79 1'48 0'83 1'36 5'91 0'77 1'47 3'12 11'14 3'73 2'18 2'13	pence. 47:83 30:89 32:73 24:34 37:47 36:99 42:61 73:70 19:75 22:72 24:36 24:05 89:80 24:52 31:02 16:76	pence. 60°15 21°45 18°74 38°21 18°46 49°50 27°24 27°28 32°76 11°03 20°00 14°09 20°19 44°49 16°31		s. d. 21 3 8 111 6 8 11 6 8 15 3 6 11 12 6 6 3 8 44 7 8 5 14 0 0 3 0 2 9 3 11 2 3 6 4 14 0 3 6	577 69 83 75 65 63 577 88 66 71 65 29 71 62 99 90	1 4 3 1 1 3 3 3 3 2 2 3 3 3 2 2 3 3 3 2 2 3	13 4 4 23 2 23 17 3 13 9 14 51 7 15 29 3 9 23 7	16 11 11 2 4	13 12 3 20 11 32 15 13 13 18 18 36 14 38 24 26
	Averages	1,048,250	38,578	25,271	22,997	20,236	4,974 13 4		1'14	30.92	30.11	7 1	8 I	65	2	14	2	17

STATEMENT of comparative quantity and cost of work done by Ladder Dredges (with towing), 1895 and 1896 to 30th June, 1897.

	1st Janu Dredgi	ary to 31st December ng, towing, and rep	er, 1895. airing.	1st Janua Dredgi	ary, 1896, to 30th Junes, towing, and repo	ne, 1897. airing.	Parada Santa S
Ladder Dredge.	Tons.	Expenditure.	Pence per ton.	Tons.	Expenditure.	Pence per ton.	Remarks,
"Samson," at Newcastle "Sydney," at Sydney "Charon," at Hawkesbury River and Port Hacking. "Newcastle," at Newcastle "Hunter," at Sydney "Vulcan," at Hunter River "Alcides," at Richmond River "Fitzroy," at Macleay River "Ulysses," at Manning River "Minos," at Clarence River "Minos," at Shoalhaven "Archimedes," at Sydney	170,340 1,312,430 403,840 229,480 215,500 186,590 186,040 239,030	£ s. d. 8,852 9 10 4,421 4 10 2,612 9 9 11,586 18 2 6,764 3 5 5,238 18 4 3,239 11 10 3,383 18 11 3,267 10 1 2,623 17 4 1,887 4 4 1,346 8 1	3'89 2'92 3'68 2'12 4'02 5'48 3'61 4'35 4'21 2'63 4'90 9'09	711,985 471,060 145,370 1,202,850 211,040 289,490 104,900 197,696 344,390 235,960 205,060 169,720	£ s, d. 9,115 15 4 7,568 18 7 2,785 15 11 12,369 10 7 4,760 0 7 6,629 15 9 2,337 12 8 4,004 0 8 4,921 8 2 3,637 18 6 4,461 16 10 2,700 11 11	3'07 3'86 4'59 2'47 5'41 5'50 5'34 4'90 3'43 3'70 5'22 3'82	1896. Tons. £ s. d. Pence perton 11,390 214 I 4 4'5 Port Hacking 133,980 2,571 I4 7 5'4

STATEMENT of comparative quantity and cost of work done by Sand-pumps (with towing), 1895, and from 1st January, 1896, to 30th June, 1897.

Sand Pump Dredge,		ary to 31st Decemb			ary, 1896, to 30th Ju g, Depositing, and R				
Sand Lump Drogo.	Tons.	Expenditure.	Pence per ton.	Tons.	Expenditure.	Pence per ton.			
		£ s. d.	d.		£ s. d.	d.	1896-7.	Tons. 23,8co	£ s. d. Pence per ton.
"Neptune," at Sydney, Bateman's and Twofold Bays, and Cook's River	309,670	3,396 3 11	2.63	338,100	4,285 19 11	3.04	Bateman's Bay Twofold Bay Cook's River	134,800 16,600 162,900	1,212 14 4 2'15 955 4 6 13'81 1,788 11 4 2'64
"Juno," at Newcastle	295,410	2,585 13 11	2110	473,180	4,180 7 1	2.13	Cook & Autor American	102,900	1,,00 11 4 204
"Jupiter," at Newcastle	197,890	2,792 4 5	3'39	685,500	5,535 12 1	1'94			
"Actor," at Tweed River	331,812	1,969 4 3	1'42	580,425	3,972 7 1	1.64			
"Alesus," at Nambucca River	461,137	4,091 1 4	2,13	474,400	4,046 3 4	2'05			
"Dorus," at Macleay River	312,800	2,332 11 0	1.79	653,115	6,249 12 0	2,30			
"Dictys," at Richmond River	301,575	2,549 4 5	2.03	481,920	3,398 9 6	1.69			
"Groper," at Sydney	343,370	3,839 12 0	2.74	782,970	5,088 3 7	1.26			
A STATE OF THE PARTY OF THE PAR									

STATEMENT of comparative quantity and cost of work done by Grab and Sand-pumps (with towing), 1895, and from 1st January, 1896, to 30th June, 1897.

The first of the second		1895.		1st Janu	ary, 1896, to 30th Ju	ine, 1897.	
Grab and Sand Pump Dredge.	Tons.	Expenditure.	Pence per ton.	Tons.	Expenditure.	Pence per ton.	
"Delta" at Camden Haven "Sigma," at Myall River "Rho," at Cape Hawke "Tau," at Port Hacking and Moruya "Theta," at Bellinger River	,,	,,	33	210,820 217,050 340,790 128,220 51,469	£ s. d. 1,506 8 9 2,230 0 1 2,154 0 1 2,271 15 11 677 12 0	d. 1'71 2'47 1'52 4'25 { 3'16	1896-7. Tons. £ s. d. Pence per ton. Port Hacking

etter bester for the party of the same and		1895.		ıst Janu	ary, 1836, to 30th Ju	ne, 1837.	The second secon
Grab Dredge.	Tons.	Expenditure.	Pence per ton.	Tons.	Expenditure.	Pence per ton.	
* Alpha," at Tweed River "Beta," at Sydney "Gamma," at Hastings River "Zeta," at Richmond River "Eta," at Camden Haven "Theta," at Clarence River. "Iota," at Nambucca River. "Kappa," at Hunter River and Lake Macquarie "Lambda," at Clarence River "Mu," at Richmond River "Nu," at Newcastle "Omicron," at Cook's River "Pi," at Sydney "Chi," at Bellinger River "Omega," at Clarence River	74.534 46,650 9,585 52,902 71,080 23,030 18,935 61,194 58,170 102,880	£ s. d. 688 15 0 1,186 13 4 1,092 8 1 1,091 18 10 1,031 5 4 710 7 0 810 10 1 1,527 5 6 1,226 9 6 807 9 4 507 18 4 816 19 11 2,075 6 7 865 0 4	d. 2.69 9.43 5.97 3.52 5.31 17.79 3.68 5.16 	48,538 41,590 53,150 96,170 46,220 2,025 71,806 89,256 15,920 79,172 21,624 98,874 61,215 99,458 22,006	£ s. d. 1,179 15 11 2,490 19 11 1,393 15 2 1,376 7 3 955 16 10 660 7 4 1,236 19 6 2,216 17 1 505 1 0 1,318 19 11 1,155 11 5 841 1 3 2,158 10 5 2,854 2 3 1,077 4 7	d. 5'83 14'37 6'29 3'43 4'96 78'26 4'13 5'96 7'61 4'00 12'83 2'04 8'46 6'89 11'75	Laid up for alterations on June 7, 1896. 1896-7. tons. £ s. d. pertor for the following for the follo

AVERAGE Cost of Dredging and Conveying, 1895, and from 1st January, 1896, to 30th June, 1897.

			1st January	to 31st Dec	ember, 1895.					1st January, 18	lg6, to 3oti	June, 1897.		
Class of Dredge.			Dred	ging only.		Dredging and T	Towing.			Dred	gi g only.		Dredging and T	owing.
	Tons dredged.	Hours dredging.	Expenditure.	Average cost per ton.	cost	Expenditure.	Average cost per ton.		Hours dredging.	Expenditure.	Average cost per ton.	Average cost per hour.	Expenditure.	Averag cost per tor
Ladder Dredges	2,553,664 359,592	30,209	£ s. d. 38,685 2 4 23,169 13 6	2°33 2°17 4°15	£ s. d. 1 15 8 1 19 7	£ s. d. 55,224 14 11 23,555 14 3	3'33 2'21 4'87	4,469,610 948,349 847,024	26,712 18,656 7,729 32,425	£ s. d. 47,775 8 4 36,314 2 8 8,124 17 2 16,874 18 3	1'95 2'06 4'78	£ s. d. 1 15 9 1 18 11 1 1 0 0 10 5	£ s. d. 65,332 5 6 36,756 14 7 8,839 16 10 21,421 9 0	
	7,393,381	63,612	76,735 10 6	2.49	I 4 9	96,277 14 4	3,15	10,554,504	85,522	109,009 6 5	2.48	I 5 6	132,350 5 11	3.0

Country Towns Water Supply.

Report of the Assistant Engineer, Public Works Department.

Sir,

I have the honor to furnish the following particulars of the works completed or commenced, and schemes investigated and reported on, during the year ending 30th June, 1897.

Owing to the re-arrangement of duties, I have, during the latter six months, been relieved by Mr. Wade, of the supervision of water-works in progress which, in future, will be described by him.

Water Supplies in progress or completed.

Armidale.

These works were finally completed and have since been handed over in full working. The storage reservoir on Dumaresq Creek, about 8 miles from the town, is formed by a concrete and rubble dam of the usual gravity type, 37 feet high, the capacity being about 110,000,000 gallons, and catchment area $8\frac{1}{8}$ square miles. The supply main is of riveted steel, $9\frac{7}{8}$ diameter, $\frac{1}{8}$ thick, and conveys the water by gravitation to a concrete service reservoir on the highest hill in Armidale. The streets are reticulated with about 16 miles of cast-iron pipes. Owing to difficulties with the contractor the dam had to be built

by day labour.

The water is soft and of an excellent quality, and in every way the works have justified the substitution of this for the Duval Creek scheme originally passed by the Public Works Committee.

These works, though actually completed during the previous year, could not, owing to the prolonged drought, be made use of to any extent, and it was not till January, 1897, that sufficient rain fell on the water-shed to cause the dam to partially fill and allow the town and railway to be supplied. It is hoped that heavy rain will soon fall and fill the reservoir, as there is now a severe drain on the comparatively small quantity stored. With a view of adding to the efficiency of the scheme, plans were prepared for bringing in an additional watershed area of 3 square miles. The works as now handed over to the Municipal Council comprise a very large storage reservoir on the main branch of Ulandrie Creek, near Bethungra, formed by a concrete and rubble dam 42 feet high, of the usual gravity type, the capacity being 137,000,000 gallons, and catchment area $5\frac{1}{4}$ square miles; $18\frac{1}{2}$ miles of $7\frac{3}{4}$ " steel and iron riveted main leading to a service reservoir of concrete $2\frac{1}{2}$ miles from Junee; and about 7 miles of wrought and cast iron supply and reticulation pipes. The scheme is a gravitation one, and was selected in preference to the proposal to pump from the Murrumbidgee.

Owing to its unfavourable situation, Junee is a most difficult town to supply with water, and the cost could not be borne by the ratepayers except for the assistance of the Railway Commissioners who use the water not only at Junee but also at Bethungra, and guarantee a minimum contribution of £1,500 per annum.

£1,500 per annum.

Tamworth.

Further investigations were made during the year of sites for dams on Moore Creek, in order to increase the storage capacity to 50,000,000 gallons, with the result that the first proposed site was reverted to, and an arch dam designed. The works, which are now being carried out by day labour at the special request of the Council, will in other respects be in accordance with the details submitted to the Public Works Committee. These comprise a storage reservoir on Moore Creek in the Moonbi Ranges, about 11 miles from the town; a steel supply main, of $7\frac{1}{4}$ in diameter; a concrete service reservoir of 500,000 gallons capacity, near the hospital in Tamworth, and about 19 miles of reticulation. The supply is by gravitation, and owing to the great fall available it will furnish power for electric lighting, and in this and other respects should prove a great improvement on the originally proposed numping scheme. other respects should prove a great improvement on the originally proposed pumping scheme.

Parkes.

Owing to the continued drought, and the consequent failure of the existing drift-bed pumping scheme, it became necessary to provide a gravitation supply. The additional works just completed consist of a concrete and rubble arched dam, of 250 feet radius, and 25 feet high, built across the Billabong Creek, about 11 miles from the pumping station, and connected with the town mains by a steel riveted pipe, $7\frac{1}{4}$ inch in diameter. The storage capacity is 63,000,000 gallons, and provision has been made for raising the dam when required. The catchment area is 50 square miles, and the quality of the water is everything that could be desired.

Moss Vale.

Alterations were made to the pumping engines, and an additional boiler provided.

The following schemes were investigated, surveys made, and plans and estimates prepared.

Cootamundra.

This scheme, work on which is about to be commenced, has been rendered necessary by the late drought, which caused the water stored in the drift bed to fail. It will consist of a large storage reservoir drought, which caused the water stored in the drift bed to tail. It will consist of a large storage reservoir on Hardy's Creek, about $2\frac{1}{2}$ miles from the present pumping station. The dam will be arched, 200 feet radius, and 30 feet high, and will conserve 136,000,000 gallons. The water will gravitate into the existing service reservoir, through $7\frac{1}{4}$ inch steel pipe. By means of branch mains and small "pipe-head" dams, the flow of Coghlan's and Rocky Creeks will be conveyed to the storage reservoir, thereby increasing the catchment area to 4 square miles, which, with the immense storage provided, should be sufficient to keep the town permanently supplied. The estimated cost is £9,130.

Tenterfield

Tenterfield.

This will be a gravitation supply from Curry's Gap Creek, which rises in Mount Mackenzie, close to the town. The dam will be a concrete and rubble arch of small radius, and the storage capacity 47,000,000 gallons. The catchment area is 6 square miles, and the creek a permanent one. The scheme will also provide power to light the town by electricity. Estimated cost, £7,900.

Mudgee.

This work, which is about to be commenced, will also be a gravitation supply, and will be obtained from a storage reservoir formed by a large arched dam on Redbank Creek, close to the town. The total catchment area which it is at present proposed to make use of is $2\frac{1}{4}$ square miles in extent; but as it is very steep it should prove sufficient, in conjunction with the proposed storage of 42,000,000 gallons. Estimated cost, £14,190.

Picton.

This town will be supplied by gravitation from the Bargo River, the storage dam being below the junction of Horne's Creek, about 8 miles away. It has been necessary to go this distance to gain sufficient head to cross the intervening high hills. The dam will be a concrete and rubble arch of small radius, and will store sufficient water to not only supply the town and railway, but also to provide power for electric lighting. Estimated cost, £13,860.

Wollongong.

This scheme, "The Cordeaux," was again modified, in order to bring it within the means of the ratepayers, and, having been approved, will shortly be commenced. The works, which are at present intended to supply Wollongong alone, will comprise an arched dam across the Cordeaux River, forming a storage reservoir of over 60,000,000 gallons capacity; a tunnel, nearly half a mile long, through the range, to "Andrews' Lookout"; a 5-inch steel main to Wollongong, with a relief tank on Garden Hill, and the usual reticulation. Estimated cost, £19,470.

Wellington.

This question was further investigated, and a new gravitation supply surveyed and designed from Bushranger's Creek, where an arched concrete and rubble dam will be constructed, to hold a year's supply. The water will gravitate to the town through $2\frac{1}{4}$ miles of 7-inch pipe, and be distributed through the usual reticulation pipes. Estimated cost, £8,700.

Temora.

Investigations were made, and a scheme recommended which comprises the improvement of the existing Government dam, 3 miles from Temora, and the conveyance of the water, through an earthenware pipe to a service reservoir, whence it will be distributed through reticulation pipes.

The following schemes were investigated and preliminary reports furnished:-

Inverell.

Further investigations were made, and a new site for a dam selected higher up Middle Creek, from which the water will gravitate to the town. The scheme is now about to be surveyed.

Bathurst.

Owing to the exhaustion of the Macquarie drift-beds during the late drought, it was necessary to look for a new source of supply. On investigation a promising source was discovered on Foster's Valley Creek, near Rockley, at sufficient elevation to gravitate over the intervening hills. The Gulf country was also investigated, and a possible source found. Surveys are about to be made of both schemes.

Tumut.

A further examination was made at the request of the Council, and the scheme from Waterfall Creek again recommended. Surveys are about to be made so that accurate estimates can be furnished.

Kiama.

After a careful examination of the country a report was furnished recommending the Fountaindale Creek as the best source of supply. No surveys were however made.

Works not connected with Water Supply.

Hunter River Flood Prevention.

A scheme for the mitigation of floods on the Lower Hunter was devised, and a report presented with plans and estimates. This scheme will consist of a large dam across the Hunter, 10 miles below the junction of the Goulburn, whereby 40,000,000,000 cubic feet of water can be held back till the lower river has time to fall. A geological examination was afterwards made with favourable results, and additional surveys are shortly to be commenced.

EDWD. B. PRICE, Assistant Engineer, Public Works Department.

Bridge Construction and Renewals.

(VII.)

Report of the Assistant Engineer for Bridges.

I have the honor to report that during the year ended June 30, 1897, 124 new bridges were completed and opened for traffic, the details as to length, &c. of each being given in Appendix "A." With the exception of the lifting span at Swan Hill and the three steel spans at Wallis Creek, the whole of these new bridges are constructed of timber, though in many cases iron or concrete piers and abutments have been used.

The total length of these bridges is 13,483 feet, consisting of 357 plain timber beam spans, 20 timber truss spans, 4 steel spans, 1 steel lift span, and 4 masonry and brick arch spans, the total cost being £85,243 4s. In my last report I referred to the Swan Hill and Inverell Bridges as being in

progress, and they are perhaps the most important of those opened for traffic during the year.

Swan Hill Bridge over River Murray has a total length of 381 feet, consisting of four spans of 35 feet each, 2 spans of 91 ft. 6 in., and one steel lifting span (to admit of passage of steamers in flood-time) of 58 ft. 4 in. The cost of this work was £7,625 18s. 11d. (half of which is defrayed by the colony of Victoria), and the bridge is, from a traffic point of view, a very important one, Swan Hill being

the most westerly point on the Murray touched by the Victorian railway system.

Prior to the erection of the bridge the traffic was carried by a hand-power punt, owned by a private

Prior to the erection of the bridge the traffic was carried by a hand-power punt, owned by a private individual; and, when we consider that upwards of 105,000 sheep and cattle a year crossed at this place, it will be seen how necessary the bridge was. It may be of interest to remark that Swan Hill Bridge is the tenth spanning the Murray, counting from the source. It was opened for traffic in November, 1896.

Inverell Bridge, over the McIntyre River, has three timber truss spans of 110 ft. 3 in. each, on iron cylinders, with four timber beam approach spans, the total length being 440 ft. 9 in., with a 24 feet roadway. It is of the type built in the previous year at Wagga Wagga, and replaces the old and very narrow bridge which carried the traffic at this place. The cost of the bridge was £9,938 18s. 11d., and it was opened for traffic in July 1896. was opened for traffic in July, 1896.

In addition to the bridges referred to as completed, contracts were in progress during the year for the erection of sixty-one new bridges, which are not yet completed, particulars of which are given in Appendix "B."

The total length of these bridges is 10,970 feet, and they are made up of 265 plain timber beam spans, twenty-three timber truss spans, and one suspension span, the total completed cost being estimated at £73,461 11s. 9d.

Of these uncompleted bridges the most important are :-

Bridge over Kangaroo River at Kangaroo Valley, consists of one suspended span of 252 feet 9 inches, having a roadway of 18 feet.

The bridge has very fine towers of sandstone, and the span is carried by fourteen steel wire ropes on each side of the bridge, formed into two cables of seven ropes each. The ropes are 4½ inches in circumference, made of plough steel, galvanised, and are each capable of sustaining a tensile strain of 78 tone without fracture. tons without fracture.

The work is well in hand, the towers being complete and the ropes in position.

The site is admirably suited for a suspension bridge, for here, where the Moss Vale-Nowra coach road crosses the Kangaroo River, the formation is solid sandstone, offering an excellent anchorage for the cables of the bridge, as well as an unlimited supply of fine stone for the masonry towers. The depth of the gorge in which the river flows also renders the suspension type most economical. The road here is at present carried by a timber truss bridge of considerable age, and now decayed. The new bridge is estimated to cost £8,000.

Bridge over Hunter River at Morpeth consists of three timber truss spans of 110 feet 3 inches each, on iron cylinder piers, thirteen timber beam spans of 35 feet each, and one of 30 feet, making a total length of 815 feet 9 inches, with a roadway of 18 feet. The trusses in this bridge are of a similar

type to those at Inverell, but lighter, on account of the comparatively narrow roadway.

The bridge, when completed, will take the place of the hand-power ferry at present carrying the

traffic, and is estimated to cost £9,000.

Miscellaneous.

A work of some importance carried out during the year was the protection of the right bank of the Macquarie River at Bathurst above the Denison Bridge, where the river made such inroads as to threaten the line of the Main Western Road. A bank of ti-tri fascines has been completed here, 1,700 feet in length, at a cost of £1,591, and with most satisfactory results.

A new and powerful steam ferry punt for the George's River (Tom Ugly's) is in hand, and will be faunched shortly. The principal dimensions are 64 feet long and 32 feet 6 inches in width, and many improvements have been effected in the general engagements which will add to the sefe and greedy

improvements have been effected in the general arrangements, which will add to the safe and speedy working of the ferry. This punt is estimated to cost £2,366 10s.

Hand-geared punts were also constructed for the Hawkesbury River, Windsor, Tweed River, and

approaches, and caretaker's cottage for the Raymond Terrace punt, at a total cost of £1,829.

It will be seen, then, that taking the number of works completed, and adding the number of those in progress, the total contracts dealt with was 188, representing an expenditure of £163,328 5s. 1d.

Comparing

Comparing the year's work with that of 1895-6, we find the following:-

	Y		1895-6.	1896-7.
Bridges, completed, cost			£64,287 19s. 10d.	£85,243 4s. 0d.
Number			125	124
Length			10,218 feet	13,483 feet
Truss spans	***		7	20
Beam spans			296	357
Iron or steel spans			4	5
Masonry and brick arches			***	4
Bridges, in progress, cost			£71,201 3s. 0d.	£73,461 11s. 9d.
Number	***		81	61
Length	***	***	9,191 feet	10,970 feet
Truss spans	***		14	23
Beam spans	***		234	265
Iron or steel spans		***	5	1

From these figures it will be seen that the payments for completed works, and estimated cost of those in progress this year exceed that in 1895-6 by £23,215 12s. 11d, while the length of bridge-work exceeds that of the former year by 5,044 feet. Generally it is difficult to make any comparison of cost from one year to another, owing to the great variety of structures dealt with; but in the two years under consideration practically all the bridges are of timber, and a rough comparison of cost may be made, which shows the average cost per foot run in 1895-6 to be £6 19s. 7d. as against £6 6s. 6d. per foot run in 1896-7, a difference probably due to the large number of beam spans (78) in the Gundagai Viaduct.

E. M. DE BURGH,
Assistant Engineer for Bridges.

Note. The figures given in the above Report, as also in the Returns attached, represent the cost of bridge structures without engineering and incidental expenses.

(VIII.) Bridges completed during the year ending June 30, 1897.

Name of Bridge,		Sp	ans.	Overall Length in	Cost.	
Traine of Diage.	Stone.	Iron.	Truss.	Beam.	feet.	
						£ 8. (
Cantawanglo	*****	*****	I	2	151	1,145 11
Wyong Creek	*****	*****	I	5	240	1,294 19
Molonglo River, Foxlow	*****	*****	I	4	235	1,602 17
Numrock Creek			I	2	123	823 19 1
Ellenborough River	*****	*****	2	2	253	1,660 3
Pharity Creek		******	I	2	143	791 15
Iabbagannah	*****	******	I	2	163	1,083 19
Myrtle Creek		******	I	4	228	1,125 19
Sudgegong Creek			I	*****	93	970 2 1
nverell			3	4	440	10,058 18 1
wan Hill		I	2	4	378	7,588 9
Valgett			I	9	395	3,053 19 1
Oouble Creek			1	4	215	1,499. 8
ish River at O'Connell			2	******	185	1,340 15 1
Cooradigbee River	*****	******	T	3	216	1,604 2
Vallis Čreek		3			95	3,223 10
Iutching's Gully	т т				30	329 2
ittle Dark Creek	I	******	10000000	*****	10	120 3
	I	******	*****	******	5.5	385 17
'yndale's Gully		*****	*****	*****	25	00,
Togt's Gully		******	811111	*****	15	212 4 1
Kingswood Culvert	*****	I	*****		5	100 13

BEAM BRIDGES.

Alamny Creek	, 1			3	108	430 6 5
Adelong Creek, Moore's Crossing	111111	*****	*****	4	135	741 19 2
Aston Creek		******	*****	I	38	163 9 9
Boomerang Creek	*****	******	*****	I	38	90 3 5
Black Bols Creek	******	******		I	30	460 15 0
Baronna Creek	*****	*****	******	I	33	254 17 8
Black Gully	*****	******		1	38	345 10 9
Broken Back Creek	*****		******	3	63	168 1 9
Bril Bril Creek	*****	*****	*****	2	53	249 2 0
Beardy River, Red Range	*****		******	4	125	586 17 3
Bega River, at Auckland-street	*****	*****	******	8	243	96 9 0
Brewer's Creek	*****	*****		2	55	162 0 0
Broadwater Creek	*****	******		3	108	840 15 8
Badgery Creek				I	38	148 8 4
Black Creek				4	143	545 12 1
Bogan River, at Monkey		******		5	168	1,078 1 11
Baker's Creek		*****	*****	I	38	171 11 2
Carrore Creek	****	*****		4	113	695 3 3
		1.				

Name of Bridge.			nns.		Overall length in	Cost.
	Stone.	Iron.	Truss.	Beam.	feet.	
						£ s.
ttai Creek, Manouta		*****	*****	3 8	108	546 7
dar Party Creek	*****	******	*****		283	1,451 12
pakers' Water-holes ttai Creek, Dural	*****	*****	· · · · · ·	2	63	226 9
taburra Creek, No. 1, 2, and 3		******	*****	3	309	399 10 2,106 6
dar Craek				I	38	161 13
herine Hill Bay	*****	******	*****	3	- 80	206 0
ombo Creek	******	******	*****	4	131	539 8
r's Gully		*****	*****	I	35	195 12
ngegong Creek	*****	******	*** **	I	40	192 10
ttaway Creekgrove's Creek		*****	******	2	63	180 3
ramatta Creek	*****	*****	******	I 2	33	125 14
go Creek	******	******		2	73 75	537 11
ren's Creek	*****	*****		I	38	242 14
epwater River	*****			3	106	240 9
ep and Black Creek	*****		******	6	182	589 13
etor's Creek	*****	*****	131.088	4	123	534 14
ven-mile Creek	*****	******	******	2	63	308 8
t under the Hill	******	******	*****	9	53	784 11
d's Bridge, Warrego River				2	²⁷⁵ 53	466 6
nt's Creek	* ******			4	133	434 12
ndary Creek		*****		3	108	516 1
ilfoyle's Creek	*****	*****		I	28	141 5
ile's portions, Bridges I and 2	******	*****	*****	2	76	344 13
ndman's Creek rabatgulla	******	*****	*****	3	110	418 15
nworks Creek	*****			3	30	379 15 318 11
rea Creek		*****		2	78	227 8
lyvill, Brian's Bridge	******	*****	******	3	65	261 4
aher's Creek, at Wee Waa	*****		*****	I	38	194 8
hlan River, at Inglewood	*****	*****	*****	5	155	914 3
blan River, at Nanawa	*****	*****	******	6	215	1,423 12
t River, Foot Bridge tle Hartley Creek	*****	******	*****	2	73	101 13
tle Malabar	*****	*****		I 2	25 65	324 15 130 16
ng's Creek	******		******	ī	38	229 9
Leod's Creek	*****		*****	ī	38	142 4
nners-street, Tenterfield		*****	*****	5	168	1,054 17
rom Ureek		*****		3	93	311 19
lle's Main	*****	*****		I	33	223 13
hi River	*****	******	*****	4	123	819 9
oki River	******	******	******	4 2	57	569 3 320 5
rra Creek			*****	7	209	1,014 19
rrumbidgee Road at Gobarralong	******	******		ıı	333	1,878 15
rrawalla Creek		******	*****	3	123	342 18
yeau Creek		*****	******	I	25	193 6
pean River—Blaxland's Crossing	******	******	******	8	203	1,657 17
Man Creek	******	******	*****	4	133	471 4
ong Creek nbula River, at Pambula	414141	******	*****	4	125	62I 2 326 I2
e's River at Blandford		******		3 4	125	428 13
rce's Creek at Alstonville			******	3	83	392 2
Town, No. 1	*****	******	*****	2	73	241 4
rindi Creek Foot-bridge	*****			3	78	63 11
one's Creek			******	2	73	206 7
pe's Creek		******	******	3	108	413 3
mile Creek, Bombala	*****	******		I	38	145 16
ekett's Creek	******	******		ı	33	103 14
dy Creek, Tumut				I	33	178 5
dy Creek (near Dora Creek)	*****		*****	4	143	421 18
cy Creek		*****	*****	6	185	786 0
water Creek	*****	******	*****	3	100	552 1
arloaf Creek kes Creek			******	2	55	203 4
en Hills Swamp, No. 1		******	******	3	95 80	395 2 302 4
Do do No. 2		*****	*****	3 2	55	202 5
lor's Creek		*****		5	153	410 18
laba Creek	*****	*******	*****	4	133	626 3
o-mile Creek, at Bigga	******	*****	*****	I	38	210 19
ki Creek		******		I	38	196 5
ring Creek			*****	3	108	58 15
ngiwomble kool River	*****	******	*****	I	33	154 18
rrambooli, Walgett, No. 1)	******	*****		7	178	450 10
Do do No. 2	******			7	215	1,163 5
Do do No. 3)			113555	/	-43	2,003 3
lber Creek		311111	*****	2	63	306 3
olway Creek				5	145	1,272 17
ilmoringle		*****		4	105	792 I
rakool		*****	******	3	87	240 2
rdley's Creek	******	*****	*****	I	23	116 18
Complete Total		-	20	257	12.482	85 242 4
	4	5		357	13,483	85,243 4

BRIDGES in progress on June 30th, 1897.

Stone Iron Truss Beam feet	Name of Bull		Spa	ans.		Overall	Goden de Gode
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albagie Oreck							
1 38 190 100							
key Creek					I	25	1000
mghterhouse Creek		*****			I		
ross Bataury, Trunkatabella. 5 158 449 13	ughterhouse Creek		******	*****	I		140 3
mining Creek	ountain Creek				3	93	
		*****	******		5	158	449 13
ligerry	nning Creek	*****	*****	*****	3	78	469 4
relwainde Creek	rmer's Creek	*****	*****	******		73	348 8
a		*****		******			
crambil Creek, Cassilis	velwainde Creek	*****	******	*****			20 49 20
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2 73 398 0	omnson's Creek	State Comment		1			
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Section Sect	terhole Creek	*****	*****		2		331 2
khara River ck Creek					3	93	410 0
de Creek				*****	2	53	331 9
Pambil Creek 2 53 230 0 0 0 0 0 0 0 0 0		*****	*****	*****	5	128	847 1
dley Creek	ck Creek		*****	*****	4	143	759 15
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w Bridge	Intyre River, at Vetman			The second second		The second second	A Second Control
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terson River, at Vacy				100			
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nequarry Creek, at Picton						1	Control of the second
ron River, at Wallaby Rocks				4		A CONTRACTOR	
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40,902 14	ngaroo Kiver, Suspension Bridge	I	252	*****			
Pro 16x xx			I	23	265	10,970	32,558 17
				1			£73,461 11

Water Conservation and Irrigation.

(IX.)

Report of the Principal Assistant Engineer.

The Water Rights Act.

About the beginning of the official year under review the Water Conservation Branch was transferred from the Department of Mines to the Department of Works. By far the most important matter connected with this branch which was then being dealt with was the Water Rights Bill. This Bill was then being considered in Parliament and it was subsequently passed, the date on which it came nto operation being 1st November, 1896. In regard to the importance and utility of the Water Rights Act, it may be mentioned that a return specially prepared by the Stock Department showed that the total outlay by private enterprise on dams in creeks and rivers throughout the colony has been considerably over six and a half millions sterling. Previous to the passing of the Act these dams existed on sufferance only, but the charge of all rivers and creeks is now vested in the Minister, who has power under the Act to license dams and other works after due inquiry, or to order their removal if their existence is objectionable. Persons who object to works in creeks or rivers cannot now take the law into

existence is objectionable. Persons who object to works in creeks or rivers cannot now take the law into their own hands and destroy the works as has frequently been done hitherto, but must appeal to the Minister or state their objections at the inquiries regarding applications for licenses.

The number of applications for licenses under the Water Rights Act which have been received, examined, and registered is 471, but in addition to these, 47 applications for licenses for existing works were received too late to be dealt with. The Act specified that applications for such licenses should be submitted to the Minister before 1st February, 1897. This limit proved too short for applicants in distant localities, and it had the effect of causing a temporary block in the office, as the applications had all to be examined and noted on the maps before being forwarded for inquiry.

A considerable number of the applications received relate to pumping engines. In the Hay Land Board District, the total number of applications received within the prescribed time was 136, of which

Board District, the total number of applications received within the prescribed time was 136, of which 11 were for pumping plants. The corresponding numbers for the Bourke District are 94 and 5; for the Dubbo District, 65 and 1; for the Forbes District, 45 and 3; and for the Wagga Wagga District, 56 and 5. In addition to applications relating to existing works, several have been received for proposed works of considerable importance.

Inquiry by Colonel Home, R.E.

During the greater part of the year under review my time has been almost entirely taken up with the administration of the Water Rights Act and attending on Colonel F. J. Home, R.E., who, as mentioned in the official report of the Public Works Department of last year was specially engaged by the Government to inquire into and report on water conservation and irrigation throughout New South the Government to inquire into and report on water conservation and irrigation throughout New South Wales. The value of the comprehensive surveys which were made in connection with possible schemes for water conservation has been strongly in evidence in the course of Colonel Home's inquiry. All the rivers in the western river system, and all the important lakes have been included in the great network of levels, and a series of gaugings have been made to show the discharge of the principal rivers. Colonel Home has visited all the places of special interest in regard to his inquiry, and it is probable that these inspections, and his examination of the results of the surveys, will enable him to complete his report within the twelve months for which he was specially engaged. Only a few surveys and investigations had to be specially made for Colonel Home, among the more important being the detail survey and plan of the Tantangara Reservoir site on the Upper Murrumbidgee, the completion of the detail survey and plan of the Lake Coolacumpama Reservoir site on the Lower Murrumbidgee, the detail survey for a and plan of the Lake Coolacumpama Reservoir site on the Lower Murrumbidgee, the detail survey for a new offtake for the proposed Murrumbidgee Southern Canal, and approximate surveys of proposed sites for storage reservoirs on the Murray, Murrumbidgee, Lachlan, and Macquarie Rivers.

Miscellaneous Works.

As the consideration of all important projects had to stand over till after Colonel Home's inspection, no large works were entered on during the year. My time being almost entirely divided between attending on Colonel Home and dealing with questions under the Water Rights Act, Mr. Wade was entrusted with the chief supervision of works under construction, the principal of which were the Bourke Lock and Weir, the Middle Billabong Weir, and the Wentworth Irrigation Works. The first of these works, of which a photograph is appended, has been completed, and acts very satisfactorily. The completion of the works at the Middle Billabong Weir, as at the Gin Gin Weir on the Macquarie, has been delayed owing to the desirability of bringing them under the provisions of the Water Rights Act. The Wentworth Irrigation Works are the first of their kind carried out by the Government in this colony. On their completion the irrigable area will be let in suitable blocks, and there is good reason to anticipate that the work will be remunerative.

The minor works completed in the year under review were the tanks for the water supply to the

mining settlements at Fifield and Gilgunnia, the weir and crossing at Angledool, the improvements of the channel of the Middle Billabong, and the cutting for conducting the water diverted by the Warren Weir

into the Gunningbar and Cookamurra Creeks.

Among matters investigated and reported on were proposals for irrigation works at Narromine, the practicability of irrigation from Lake Cudgellico, the drainage of the Araluen Valley, a proposed weir at Hillston, the modified scheme for irrigation at Hay, the improvement of effluent creeks below Warren, and the drainage of the Tuckian Swamp, Richmond River.

Staff Employed.

The regular field staff in connection with the branch includes, in addition to Mr. Wade, Mr. Blomfield, Assistant Engineer, and Mr. Granter, surveyor. Two of the office staff have been employed on field duty for some time—Mr. Seaver in connection with information required by Colonel Home, and Mr.

Amphlett in assisting Mr. Wade and in taking river discharges.

Amphlett in assisting Mr. Wade and in taking river discharges.

During the greater part of the official year, Mr. Marshall, the chief draftsman, had eight draftsmen under him, including Mr. Seaver and Mr. Amphlett; but at the end of April an additional draftsman was appointed. The preparation of plans and marking on levels in connection with Colonel Home's inspections, and the noting of sites of works for which applications for licenses were received, involved a large amount of work for the office staff. In addition to the plans of works already referred to, the staff have had during the year the preparation of plans relating to a number of works and proposals for water supply and drainage, including subdivision for the Wentworth irrigation area, lands which will be affected by the Middle Billabong weir, drainage of the Gwydir District, lands required for resumption in connection with various water supply works, diagrams showing heights and discharges of rivers, &c.

Expenditure.

The amount expended from the Water Conservation Vote during the year under review was £32,647 9s. 3d., the two most important items being the Bourke lock and weir and the Middle Billabong

H. G. McKINNEY, Principal Assistant Engineer, Water Conservation Branch.

Surveys, Soundings, and Borings.

(X.)

The work of the surveying staff of the Public Works Department during the financial year 1896-97 has been to a large extent interfered with by the alterations necessitated by the reorganisation of the Service, but towards the end of the term matters began to settle down to their normal condition, and work is now progressing satisfactorily. This desirable state of affairs is largely due to the energy and ability shown by the whole of the staff, who have succeeded in keeping pace with the work of the

Department under exceptional difficulties.

The opportunity was taken, while the reorganisation proceeded, to introduce some radical changes in the methods of carrying out the surveying work and recording the results, and, so far as it is possible to judge, the new system works satisfactorily. In August, 1896, the whole of the survey work of the Department, with the exception of the detail work of the Sewerage Construction Branch, was placed under the control of the present Chief Surveyor, and it has thus become possible to introduce a more complete and harmonious system of working. The nature of the duties pertaining to this branch has prevented my devoting much time to the more scientific questions demanding attention, but one or two important matters have been commenced and carried to a successful issue. The most important of these was the conference of representatives of the Government departments to determine upon a standard datum for levels in New South Wales, which was called by the Minister for Public Works in December, 1896. A report of this conference has already been printed, and it is perhaps sufficient to say that, as a result, all levels in future taken by Government officers will be referred to one common datum. The advantages of this reform will be more apparent as years roll on.

A sum of £400 has been placed on the Estimates for 1897-8 to provide and fix a number of tide-gauges at various places on the coast. This fulfils a long-standing want, not only from a hydrographical standpoint, but the data provided will be of material assistance to the engineer in the designing of new

harbours and improving the entrance to our rivers.

In November, 1896, the sum of £50 was appropriated for the purpose of fixing standard benchmarks in Sydney Harbour to facilitate the work of surveyors in defining mean high-water, which, by the common law, is the boundary of all land having a frontage to tidal water. This work is being carried out as opportunity offers, but progress has necessarily been slow on account of the limited time at our disposal.

During the year the following surveys have been carried out :-

Harbour Surveys.

Darling Island soundings and borings.

Newcastle, from entrance to Fullerton Cove (plan drawn).

Spectacle Island (plan drawn).

Clarence River entrance (plan drawn).
Moruya River, from Malabar Creek to Moruya.
Camden Haven Inlet, from entrance to
Laurieton.

Wharf Surveys.

Tuggarah Lake.

Bourke.

Brooklyn.

Water Supplies.

Wollongong. Parkes. Tamworth. Cootamundra. Mudgee. Tenterfield.
Junee (supplementary supply).
Picton.
Temora.

Bridges.

North Shore (Dawes' Point to McMahon's Point).

Tom Thum Lagoon.

Wheeney Creek.

Blaxland's Crossing (Nepean River).

Wyong Creek.

Stone Quarry Creek, Picton.

Parramatta River at Newington.

Patterson River at Dunmore.

Water Conservation. Tuckian Swamp, Gin Gin Weir.

General Surveys.

Roselle Bay resumptions.
Pyrmont ,,
Bourke flood prevention.
Parramatta Road (levels for wood-blocking).
Shea's Creek resumptions.
Ryde to Concord Punt.
Tom Ugly's Point Punt.

Fitzroy Dock.
Admiralty House grounds.
Port Macquarie.
Cook's River improvements.
Berry's Bay.
Port Macquarie—quarry site.

Reclamation Limit Line Inspection.

One hundred and two cases have been inspected and reports sent in.

GERALD H. HALLIGAN,

The Engineer-in-Chief for Public Works.

Chief Surveyor,
Public Works Department.
30 November, 1897.

RETURN

(XI.)

RETURN of Expenditure on Public Works carried on by Harbours and Rivers Branch from 1st July, 1896, to 30th June, 1897.

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Improvements to Cook's River, near Tempe, providing for discharge of Flood Waters HUNTER RIVER AND NEWCASTLE DISTRICT— Wharf and Shipping Appliances, Newcastle, Constructing including steam Cranes, Newcastle Wharf. Protection of Banks, Hunter River, at West Maitland Expenses, Rocket Apparatus, Newcastle Repairs, Newcastle Wharfs Northern Breakwater, Newcastle. Reclamation, North Harbour, Newcastle. Reclamation, North Harbour, Newcastle New Lighter for Newcastle Harbour Works Maintenance, Newcastle Harbour Works Extension and Reconstruction, Queen's Wharf. Pile Beacon, to replace Lightship, Newcastle LAKE MACQUARIE DISTRICT— Improvements at Entrance CLARENCE RIVER DISTRICT— Loans 1897 Loans 1897 Loans 1897 Loans 1898 Con. Rev. 1896 41,331 16 1 71 0 1 1	Improvements to Cook's River, near Tempe, providing for discharge of Flood Waters. HUNTER RIVER AND NEWCASTLE DISTRICT— What and Shipping Appliances, Newcastle, including steam Cranes, Newcastle, wharf. Protection of Banks, Hunter River, at West Maitland. Expenses, Rocket Apparatus, Newcastle Removal of Rocks, Newcastle Harbour """ Removal of Rocks, Newcastle Harbour """ Repairs, Newcastle Wharfs. """ Repairs, Newcastle Wharfs. """ Repairs, Newcastle Wharfs. """ Repairs, Northern Breakwater, Newcastle. """ Repairs, Northern Breakwater, Newcastle. """ Repairs, North Harbour, Newcastle. """ Repairs, Northern Breakwater, Newcastle. """ Repairs, Ocn. Rev. 1856 """ Loans 1858 18,576 10 4 Repairs, 12,966 13 5 """ Loans 20,695 15 9 Huntenance, Newcastle Harbour. Loans 1897 Loans 1898 21,266 13 5 """ Loans 20,695 15 9 Loans 20,695 15		HETEROLO.					
Providing for discharge of Flood Waters Hunter River and NewCastle District— Wharf and Shipping Appliances, Newcastle, including steam Cranes, Newcastle Wharf. Protection of Banks, Hunter River, at West Maitland Expenses, Rocket Apparatus, Newcastle Hunter Breakwater, Newcastle Hunter Breakwater, Newcastle Hunter Breakwater, Newcastle Repairs, Newcastle Wharfs Reclamation, North Harbour, Newcastle Hunter Breakwater, Newcastle	Providing for discharge of Flood Waters		23 ***	23	1896	150 0 0		150 0 0
HUNTER RIVER AND NEWCASTLE DISTRICT— Wharf and Shipping Appliances, Newcastle Wharf, including steam Cranes, Newcastle Wharf. Protection of Banks, Hunter River, at West Maitland Expenses, Rocket Apparatus, Newcastle Expenses, Rocket Apparatus, Newcastle Expenses, Rocket Apparatus, Newcastle Repairs, Newcastle Harbour Reclamation, North Harbour, Newcastle Expenses, Special Services, Tugs unconnected with Dredging, and for Rocket Apparatus, Newcastle New Lighter for Newcastle Harbour Maintenance, Newcastle Harbour Maintenance, Newcastle Harbour Extension and Reconstruction, Queen's Wharf. Pile Beacon, to replace Lightship, Newcastle Improving Loans (Con. Rev. 1885) Loans (Rev. 1885) Loans (Con. Rev. 1887) Loans (Con. Rev. 1887) Loans (Con. Rev. 1883) John Maintenance Con. Rev. 1895 Loans (Rev. 1896) Loans (Rev. 1896) Loans (Rev. 1896) Loans (Rev. 1896) Loans (Con. Rev. 1896) Loans (Rev. 1897) Loans (Rev. 1898) Loans (Rev. 18	Hunter River and Newcastle District— Wharf and Shipping Appliances, Newcastle including steam Cranes, Newcastle Wharf. Protection of Banks, Hunter River, at West Maitland Expenses, Rocket Apparatus, Newcastle Constructing & improving Con. Rev. 1866 41,331 16 1 16 16 16 16 17 17		Improving	Loans	1807		7 7 0	7 7 0
including steam Cranes, Newcastle Wharf. Protection of Banks, Hunter River, at West Maitland Expenses, Rocket Apparatus, Newcastle Removal of Rocks, Newcastle Harbour Repairs, Newcastle Wharfs Northern Breakwater, Newcastle Expenses, Special Services, Tugs unconnected with Dredging, and for Rocket Apparatus, Newcastle New Lighter for Newcastle Harbour Maintenance, Newcastle Harbour Works Extension and Reconstruction, Queen's Wharf. Pile Beacon, to replace Lightship, Newcastle Improving Loans & Con. Rev. 1885 1887 1886 1887 1887 1887 1886 1887 1887 1887 1887 1886 1887 1887 1887 1886 1887 1887 1887 1887 1886 1887 1887 1887 1886 1887 1887 1887 1886 1887 1887 1886 1887 1887 1887 1886 1887 1887 1887 1886 1887 1887 1886 1887 1887 1886 1887 1887 1886 1887 1887 1887 1886 1887 1887 1887 1886 1887 1887 1887 1886 1887 1887 1886 1887 1887 1886 1887 1887 1886 1887 1886 1887 1887 1886 1887 1886 1887 1887 1886 1887 1886 1887 1887 1886 1887 1887 1886 1887 1886 1887 1887 1886 1887 1886 1887 1887 1886 1887 1887 1886 1887 1886 1887 1886 1887 1887 1886 1887 1887 1886 1887 1886 1887 1886 1887 1887 1886 1887 1887 1886 1887 1887 1886 1887 1887 1886 1887 1887 1887 1886 1887 1887 1886 1887 1887 1886 1887 1887 1886 1887 1887 1886 1887 1887 1887 1886 1887 1887 1887 1886 1887 1887 1887 1887 1887 1886 1887 1888 1887 1887 1888 1887 1887 1888 1887 1888 1887 1888 1887 1888 1887 1888 1887 1888 1887 1888 1887 1888 1887 1888 1889 1889 1889 1889 1889 1889 1889 1889 1889 18	including steam Cranes, Newcastle Wharf. Protection of Banks, Hunter River, at West Maitland Expenses, Rocket Apparatus, Newcastle	HUNTER RIVER AND NEWCASTLE DISTRICT-			-21			
Protection of Banks, Hunter River, at West Maitland Expenses, Rocket Apparatus, Newcastle	Protection of Banks, Hunter River, at West Maitland Expenses, Rocket Apparatus, Newcastle	Wharf and Shipping Appliances, Newcastle,		Loans & Con. Rev.	1858		261.261 18 2	20 872 77 4
Removal of Rocks, Newcastle Harbour Improving Loans 1895 300 0 0 0 0 0 0 0 0	Land Expenses, Rocket Apparatus, Newcastle Constructing Annual Service Removal of Rocks, Newcastle Harbour Improving Loans 1895 300 0 0 0		& improving)				301,201 10 3	30,0/2 1/ 4
Removal of Rocks, Newcastle Harbour Improving Loans 1895 300 0 0 214 19 214 19 214 19 214 19 214 19 214 19 214 19 214 19 214 19 214 19 214 19 214 19 214 19 214	Removal of Rocks, Newcastle Harbour Improving Loans 1895 300 0 214 19 214 19 214 19 214 2		Constructing	Con Roy	1866	47 227 76 T		
Removal of Rocks, Newcastle Harbour Improving Loans 1856 18,576 to 4 12,966 to 3 5 18,576 to 4 18,	Removal of Rocks, Newcastle Harbour Improving Loans 1896 18576 10 4 10 10 10 10 10 10							
Removal of Rocks, Newcastle Harbour Repairs, Newcastle Wharfs "Northern Breakwater, Newcastle Reclamation, North Harbour, Newcastle Expenses, Special Services, Tugs unconnected with Dredging, and for Rocket Apparatus, Newcastle New Lighter for Newcastle Harbour Maintenance, Newcastle Harbour Works Maintenance, Newcastle Harbour Works Extension and Reconstruction, Queen's Wharf Pile Beacon, to replace Lightship, Newcastle Improving Loans 1858 18,576 10 4 12,966 13 5 1894 Loans 20,695 15 9 1894 4,742 17 11 1,364 12 7 Constructing Loans 1896 Con. Rev. 1895 Maintenance Con. Rev. 1895 Soo o o 584 6 8 564 10 9 Maintenance Con. Rev. 1897 Maintenance Con. Rev. 1895 Maintenance Maintenance Con. Rev. 1897 Maintenance Maintenance Con. Rev. 1897 Maintenance Con. Rev. 1895 Maintenance Con. Rev. 1895 Maintenance Maintenance Con. Rev. 1895 Maintenance Maintenance Con.	Removal of Rocks, Newcastle Harbour Improving Loans 1858 18,576 10 4 12,370 0 8 1894 12,370 0 8 1894 1897 1894 1897 1894 1897 1894 1897 1894 1897 1894 1897 1894 1894 1894 1894 1894 1894 1894 1996 18	,, ,, ,, ,,, ,,,,,,,,,,,,,,,,,,,,,,,,,,	33	,,			The state of the s	
Reclamation, North Harbour, Newcastle Improving Loans & Con. Rev. 1883 9,695 15 9 Expenses, Special Services, Tugs unconnected with Dredging, and for Rocket Apparatus, Newcastle New Lighter for Newcastle Harbour Constructing Loans 1896 Naintenance, Newcastle Harbour Works Maintenance, Newcastle Harbour Works Maintenance, Newcastle Harbour Works Maintenance Con. Rev. 1895 800 0 0 Extension and Reconstruction, Queen's Wharf. Pile Beacon, to replace Lightship, Newcastle MacQUARIE DISTRICT— Improvements at Entrance Con. Rev. 1897 447 18 4 Improving Loans 2,536 7 8 4,700 0 0 447 18 4 Improving Loans 2,536 7 8 4,700 0 0 447 18 4 Improvements at Entrance Con. Rev. 1897 92,634 6 7	Reclamation, North Harbour, Newcastle Expenses, Special Services, Tugs unconnected with Dredging, and for Rocket Apparatus, Newcastle New Lighter for Newcastle Harbour Constructing. Maintenance, Newcastle Harbour Works Maintenance. Newcastle Harbour Works Maintenance. Newcastle Harbour Works Maintenance. Con. Rev. 1895 800 0 0 1896 554 10 9 1896 1896 1896 1896 1896 1896 1896 18	Removal of Rocks, Newcastle Harbour		Loans	1858		The state of the s	
Reclamation, North Harbour, Newcastle	Reclamation, North Harbour, Newcastle						*************	*******
Expenses, Special Services, Tugs unconnected with Dredging, and for Rocket Apparatus, Newcastle New Lighter for Newcastle Harbour Constructing. Maintenance, Newcastle Harbour Works Maintenance. Con. Rev. 1895 800 0 0 584 6 8 564 10 9 Maintenance, Newcastle Harbour Works Maintenance. Con. Rev. 3519 18 2 2 2,536 7 8 2,536 7 8 2,536 7 8 2,536 7 8 2,536 7 8 4,700 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Expenses, Special Services, Tugs unconnected with Dredging, and for Rocket Apparatus, Newcastle New Lighter for Newcastle Harbour Constructing. Maintenance, Newcastle Harbour Works Maintenance. Constructing. Maintenance. Newcastle Harbour Works Maintenance. Constructing. Maintenance. Maintenance. Constructing. Maintenance. Constructing. Maintenance. Mai	Reclamation, North Harbour, Newcastle						
Dredging, and for Rocket Apparatus, Newcastle New Lighter for Newcastle Harbour Maintenance, Newcastle Harbour Works Maintenance, Newcastle Harbour Works Maintenance Constructing Maintenance Constructing Maintenance Constructing Maintenance Constructing Maintenance Constructing Maintenance Constructing Maintenance Maintenance Constructing Maintenance M	Dredging, and for Rocket Apparatus, Newcastle Annual Service Con. Rev. 1895 800 0 0 584 6 8 564 10 9 Maintenance, Newcastle Harbour Works Maintenance Con. Rev. 1896 519 18 2 584 6 8 564 10 9 Extension and Reconstruction, Queen's Wharf Pile Beacon, to replace Lightship, Newcastle Constructing Loans 4,700 0 0 447 18 4 LAKE MACQUARTE DISTRICT—Improvements at Entrance Improving Loans & Con. Rev. 1897 92,634 6 7 Loans Enver District—Improvements at Heads Constructing Name of the constructing 301,431 16 4 12,370 0 8		improving	1.0апо	1094	*************	4,742 17 11	1,304 12 7
New Lighter for Newcastle Harbour Constructing. Loans 1896 Maintenance, Newcastle Harbour Works Maintenance. Con. Rev. 519 18 2 2,536 7 8 2,536 7	New Lighter for Newcastle Harbour Constructing Loans 1896 584 6 8 564 10 9	Dredging, and for Rocket Apparatus, Newcastle	Annual Service	Con. Rev	1895	800 0 0	*************	*********
Maintenance, Newcastle Harbour Works	Maintenance, Newcastle Harbour Works Maintenance Con. Rev. 519 18 2 2,536 7 8 2,536 7 8 4,700 0 0 447 18 4 Extension and Reconstruction, Queen's Wharf Constructing Loans Reconstruction Loans Reconstruction Loans Reconstruction		Constructing	Loans		*************		Constitution of the Consti
Extension and Reconstruction, Queen's Wharf Pile Beacon, to replace Lightship, Newcastle LAKE MACQUARIE DISTRICT— Improvements at Entrance CLARENCE RIVER DISTRICT— LOADS & Con. Rev. 1897 4,700 0 0 4,700 0 0 447 18 4 47 18	Extension and Reconstruction, Queen's Wharf Pile Beacon, to replace Lightship, Newcastle LAKE MACQUARIE DISTRICT— Improvements at Entrance Improving Loans Loans 1897 4,700 0 0 447 18 4 447 18 4 Loans & Con. Rev 1897 92,634 6 7 Charkence River District— Improvements at Heads Constructing 1862 301,431 16 4 12,370 0 8	Maintenance, Newcastle Harbour Works						
Pile Beacon, to replace Lightship, Newcastle ,, Con. Rev 1897 447 18 4 Lake Macquarie District— Improvements at Entrance Improving Loans & Con. Rev 1877 92,634 6 7 Clarence River District— Improving Loans & Con. Rev 1877 92,634 6 7	Pile Beacon, to replace Lightship, Newcastle ,, Con. Rev 1897 447 18 4 447 18 4 LAKE MACQUARTE DISTRICT— Improvements at Entrance Improving Loans & Con. Rev 1877 92,634 6 7 Constructing Improvements at Heads Constructing , 1862 301,431 16 4 12,370 0 8	Extension and Reconstruction, Queen's Wharf			22			
Lake Macquarie District— Improvements at Entrance	Improvements at Entrance			and the same	1897		A CONTRACTOR OF THE PARTY OF TH	
CLARENCE RIVER DISTRICT—	Improvements at Heads	LAKE MACQUARIE DISTRICT—						11/ 4
Improvements at Heads	Improvements at Heads		improving	Loans & Con. Rev	1877	92,634 6 7	***************************************	***********
301,431 10 4 12,370 0 8	3-173-1		Constructing	11	1862		201.421 16 4	12,270 0 8
	(a) Under Vote for Cook's River and Shea's Creek Reclamation. £73.763 tos. cd. expended from Vote for Reclamation and Declaration			" …			301,431 10 4	22,370 0 8

Public Works carried on by Harbours and Rivers Branch—continued.

Fuone works carry	Whether	Fund	When	If Finished,	If Unfinished,	Amount
Work, and where situate.	Constructing or under Repair.	from which the Expense is defrayed.	Com- menced.	actual amount of Expenditure.	amount of Expenditure to 30 June, 1897.	expended from 1 July, 1896, to 30 June, 1897.
CLARENCE RIVER—continued. Woolgoolga Jetty	Constructing	Loans	1889	£ s. d.	£ s, d.	£ s. d.
Coff's Harbour Jetty	yy er-	23	22	12,596 12 8	***************************************	********
Removal of Reefs, Maclean	Improving	Con. Rev		***************************************	869 17 0 6co o o	869 17 0 600 0 0
Removal of Rocks, South Arm Dredge Dock	Constructing		1897	*************	9 8 3	9 8 3
HASTINGS RIVER—	Constantina	Can Par	+806		100 0 0	*****
Wharf, Wauchope	Constructing				130 7 3	*129 7 9
Improvements of River	Improving	Loans	1895		17,332 10 4	10,812 18 1
Harbour of Refuge	Constructing	Loans & Con. Rev.	1874		124,882 7 11	4,331 10 11
Wollongong District—						
Deepening Harbour Maintenance of Harbour Works		Loans Con. Rev	1870	136 1 o	5,680 17 5	**********
33 ************************************	33	33	1896		475 0 6	475 0 6
Arbitration case, T. W. Hungerford v. Minister for Works		Loans	1896		8,051 15 5	8,051 15 5
RICHMOND RIVER—						
Improving River Byron Bay Jetty					193,350 8 6	20,146 12 3 789 5 11
Improving Richmond River and Tributaries	Annual service		1895	1,840 13 0		
Flood Relief Works, Richmond River, via Evans	33	25	1896	**********	2,046 18 9	2,046 18 9
River	Improving			***********	7,655 19 3	2,629 19 10
Snagging Tributaries Richmond River	Constructing		1894	320 10 11	3,592 2 3	1,313 14 10
" Broadwater	19 111		25	341 11 11	***************************************	
Dock	23	Loans	1897		3 5 8	3 5 8
Clearing Obstructions				3,388 9 9		
Wharf at Bowra Improving Entrance				588 15 8	3,502 2 2	559 14 11 3,214 14 0
TWEED RIVER—						
Improving Navigation, Brunswick River Improvements, Tweed River		33	0.3		30,363 1 2	6,086 6 2
Snagging Tributaries	23	Con. Rev		158 0 10	***************************************	
MACLEAY RIVER—	33 *****	22	2.0		64 14 1	64 14 1
Improving Entrance		Loans & Con. Rev		************	10,995 0 1	9,232 13 1
" Bellinger River	. 22 **	27 **	1890	*************	22,222 19 10	5,546 6 2
Improving Entrance, Fascine Banks, &c		» ··	1888		14,783 8 8	*********
MURRAY, MURRUMBIDGES, AND DARLING RIVERS Improving		23	1856	*************	204,134 2 0	642 12 0
COCKATOO ISLAND-						
Fitzroy Dock	Annual Service	Con. Rev	1848	33,590 5 3	***************************************	*********
,, Salaries		The second secon	. ,,	800 0 0		
Machinery Contingencies	***********	35	0.00	12,314 0 0	5,079 12 6	5,079 12 6
New Dock, Biloela	Constructing	Loans	. 1881	282,270 10 8	······	
Boiler Shop and Store, Fitzroy Dock		Logne		782 1 8	1,530 9 4	1,530 9 4
Maintenance, Electric Light	and the same of th		1	9	225 0 7	225 0 7
Miscellaneous.	27		. 1896	***********	225 0 7	225 0 7
Harbour and River Surveys	AND THE RESERVE OF THE PERSON		-0-6		557 16 0	557 16
Incidental Expenses to Wharfs, Bridges, &c			. 0	100		
Improving Navigation of Hawkesbury River		. ,,	200	THE RESIDENCE OF THE PARTY OF T	12,298 13 2 891 14 4	12,298 13 2
Lighthouse, Point Perpendicular	Constructing	,,, ,,,,,	. 1890	ACCURE OF STREET	4,381 18 1	3,894 14
Wharf, Kendall, Camden Haven Improvements to Entrance, Camden Haven	. ,,	Con. Rev	. 1894	281 13 8	07 6 8	252 6
Cape Hawke			-0-		97 6 8 32 I 5	21 7 !
Wharf and Crane at Bourke	. Constructing	Con Dow			5 0 6	
Jetty, Eastern Side, Fort Macquarie					270 18 6 0 10 3	0.5
Establishment Salaries			- 20		2,805 0 0	
Salaries, Equipment, Allowances, Travelling Expenses, Rents, Cleaning, Incidental, &c	. "	. 23	. 53		10,715 4 7	10,715 4
Repairs, Kiama Harbour Works	. 39	. ,, .,	, ,,		185 7 I 316 3 IO	185 7
Compensation to the Widows of the late Jame	S	33	, ,,	***************************************	310 3 10	310 3 10
Thain, Captain Alexander, Martin Gunner, and George Thorpe					366 18 0	366 18
Expenses of Tugs on Special Service	. Annual Service		1000	************	559 7 7	559 7
Wharfs, Erection, Repairs, and Renewals Work done for other Departments	, ,, ,,	. 22 ***		***************************************	1,970 9 5	1,970 9 1
Rushcutters' Bay Park Trustees					***************************************	9 19 1
Gratuities to Retrenched Officers		Con. Rev	. 1896			65 19 1
	1	Potal		£3,287,098 9 4	3,858,897 13 7	426,336 9 11
	TOTAL EXPEND					
Harbours and Ri Dredge Service R						
Harbours and Riv	vers Loans			289,393 6	4	
Services of other	Departments		*******	13,595 3		

HARBOURS and Rivers Expenditure.

Year.	Loan.	Revenue.	Other Departments.	Total.
				£ s. d
Previous to 1859		************	***********	95,765 10
859		***************************************		16,183 19
860	**********			31,134 1 1
861	*********		***********	52,314 4
862	************	**************	***********	84,280 19
863			***********	53,318 16 1
864	************			80,830 9
865	************		**********	58,347 6
866	******	**********	***********	53,678 15
867	************	************		70,840 7 10
868		************	*********	83,204 11 10
869				81,279 12
870	***********			6:,675 14
871	***********			67,425 7 11
872		***************************************		67,121 3
373	*************	*** *********	**********	111,160 12
374	***********		********	137,749 17
375	*************			222,013 10
376	**************	***************************************		175,189 8 4
377			*************	186,916 18
378	************			218,001 4 11
879		***************************************	***********	247,110 1 10
380	***************************************		**********	279,913 18
381	*************		******	313,217 0
382		***************************************	******	596,332 7
883	************			733,620 0
84	*************	***************************************		698,458 6 2
385			***********	689,171 14 10
386	****************	*************	**********	817,631 16 11
387	*************		***********	596,743 8 8
388	295,962 14 7	139,695 10 11	**********	435,658 5
889	554,521 13 10	148,676 16 1		703,198 9 11
390	397,951 11 5	175,837 18 7	**********	573,789 10
891	449,527 18 I	211,206 19 3	**********	660,734 17 4
392	304,807 17 11	237,147 13 6		541,955 11 5
393	235,614 11 9	169,168 19 11		404,783 11 8
t January, 1894, to 30th June, 1895	372,698 12 5	229,205 2 I		601,903 14 6
t July, 1895, to 30th June, 1896	231,789 0 0	152,120 8 5	***********	383,909 8 5
st July, 1896, to 30th June, 1897	289,393 6 4	123,347 19 9	13,595 3 10	426,336 9 11
	77373	3.517 -2 9	-3/3/3 9 10	4~0,330 9 11
				£11,717,801 16 0
			1 1 2 1 1	211,/1/,001 10

RETURN of Expenditure on Public Works carried on by Water Conservation Branch, from 1st August, 1896, to 30th June, 1897.

Work, and where situated.	Whether Constructing or under Repair.	from which the Expenses is defrayed. When Com- menced.			If Finished, actual amount of Expenditure.	If Unfinished, amount of Expenditure to 30th June, 1897.	Amount Expended.		
					£ s. d.	£ s. d.	e	s.	1
Angledoon Weir, Narran River	Constructing	Loans			& F. U.	& S. U.	388		5
Araluen Drainage Works	Survey	">>>		***			84		7
Bourke Lock and Weir	Constructing	33	*****	***		***************	12,490		0
Bathurst Experimental Irrigation Farm	Survey	33	*****				1000	14	2
Colonel F. J. Home, Fees and Expenses		13	*****	***	***************************************	***************************************	1,334	Total Control	
Coopernook Report on Big Swamp		22			***********			16	3
Duck Creek, Improvement	Survey				**********			16	0
Erection of Pump, Oxley	Construction	23	** ***					19	9
Darling River Survey	***************************************		** ***		***************************************	***************************************	1000	100	5
Fifield Water Supply	Constructing	22					7000	17	2
Gin Gin Weir	0	23	******	2,17	***********	***********	la la	10	I
Gilgunnia Water Supply	33 ***	27	******		***********	***************	1,823		2
Gunningbar to Cookamurra and Crooked Creeks,	23	29	******		***********	***************************************	420	7	-4
Water Supply							200		
Gwydir River Drainage	Survey	23	*****	***	*********	***************	723		4
Incidental Expenses		33	*****	****	********	******	503		II
sland Creek Weir	Repairs	Loans		***	*************	***************	452	-	I
	CONTRACTOR OF THE PARTY OF THE		*****	***	********		15	-	9
Irrigation, Macquarie, at Narromine	Survey		*****	***		***************************************	0	100	9
Locking of the Darling	Constructing		*****	***	************	***************************************	9		8
Middle Bil'abong, Weir and Channels	Constructing		*****	113	************	***************************************	5,190		4
Land Fees and Costs	Danning	33	*****	***	***********	*************	7	19	3
Lake Cudgellico Flood-gates	Repairs	33	*****	***	************	***************************************	12	-	6
Major's Creek Water Supply		33	*****	***	***********	***************************************	0		6
Mulgoa Irrigation Works	Report, &c	33	******	***	************	***************************************		13	6
Reservoir Sites on Lachlan and Macquarie	Report	23	*****	***	***************************************	***************************************	2	8	6
River Gauging	39 *******	5.3	*****	***		***************************************	182		7
Salaries	Descent	53	*****	***		***************************************	4 562	15	II
Surveys in connection with Colonel Homes' Tours	Report	33	******	***		***************************************	52	17	7
South Bermagui Lagoon Embankment-Bermagui	Canalamatina								
Water Supply	Constructing	55	*****	***	************	***************	53	4	3
South Murrumbidgee Canal	Survey	33		***		***************************************	14		7
Tuckian Swamp Drainage	25	23	*****	***	***********	*************		16	7
Tantangara Basin, Upper Murrumbidgee	of "	23	*****	***	***********	***************************************	199	18	3
Tathra Water Supply	Constructing	27		***	***********	************	39	3	7
Warren Weir	33 ***	33	*****	***	*************	***************************************	1,615	3	II
Wentworth Irrigation Works))	23	*****	***	**************	***************************************	1,714	19	I
Wyalong Water Supply	32 151	22	*****	***		*** ***********************************	42	18	3
Willandra Weir, Raising Crest	25 800	33	******	4.94	**********	***************************************	358	4	II
Yanko Creek	Survey	33	*****	111	***************************************	**********	0	12	6
Services for other Departments	***************************************	35	******	***	***************************************	***************	117	6	5

SUMMARY OF	EXPENDITURE.
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Loans	32,518	A. P. P.	d.	
Revenue	O CO		0	
Services for other Departments		6	5	
	£32.647	0	2	

Government Architect.

(XII.)

Report of the Government Architect.

Department of Public Works, Government Architect's Branch,

Sydney, 17 November, 1897.

I have the honor to present the following report on the work carried out in this branch during the twelve months ending 30th June, 1897.

The unexpended balance at the end of the financial year on Loan Account, granted under the several Acts, is estimated amounted to about £400,000.

The expenditure already mentioned has been incurred in connection with 583 buildings, of which the following list comprises the most important completed within the year:—

						£	S.	d.
Chancery Square Court—Additions	***	***	***			1,671	15	5
Custom-house—Additions						The state of the s	18	10
Darlinghurst Police Station—Erection						1,119	0	- 8
Museum—New roof						1,277	6	10
Supreme Court—Additions						13,244	19	2
Callan Park Hospital for Insane—Atte	endants'	Quarte				3,225	1	3
Five Dock Post Office—Erection				***		1,009	14	2
Parramatta Court-house—Erection						13,985	9	5
Parramatta Post Office—Additions						1,179	10	0
Rydalmere Hospital for Insane—Addit	ions	***		***		7,480	9	9
Surry Hills Lock-up—Erection			***	***		3,045	17	1
Broken Hill Police Barracks—Erection	1			***		2,704	0	0
Dubbo Lands Office—Erection			***	***	***	3,573	12	11
Forbes Police Barracks—Erection	***	***	***	***	***	1,549	8	0
Glen Innes Post Office—Erection						2,661	9	6
Greta Court-house—Erection	***		***			1,221	14	3
Hay Lands Office—Erection			***			2,859	11	3
Junee Police Station—Erection						1,521	2	5
Katoomba Court-house—Erection			***	***	* * *	2,350	10	3
East Maitland Lands Office—Erection				***		4,750	18	10
West Maitland Court-house—Erection	***	***	***	***	***	12,157	12	2
Mudgee Gaol—Additions				***		1,174	2	6
Murrumburrah Police Buildings—Add	itions			***		1,003	1	0
Maclean Lock-up—Erection	***	***	***	***	***	1,666	11	0
Mount Victoria Post Office—Erection						1,603	18	5
Minmi Post Office—Erection		***	***	***	***	1,086	18	7
Newcastle Hospital for Insane—Additi	ions	***			***	2,069	0	0
Nowra Court-house—Erection		***	***		***	3,792	19	4
Milton Court-house—Erection		***				1,324	10	1
Parkes Court-house—Additions					***	2,127	0	2
Rylstone Lock-up—Erection		***	***	1.4-9	***	1,473	13	0
Singleton Lock-up Gaol—Erection		***		***		1,262	18	10
Sofala Lock-up—Erection	***		***	1557		1,198	15	3
Tumut Lock-up—Erection	111	***	***	***	4.5.5	1,516	15	0
Walgett Public Buildings—Improvement	ents				***	2,563	5	6
n on o 111.1		7 00					2.7	

The Chancery Square additions consist of additional offices to meet the increasing legal business there conducted. As the whole of the Chancery Square building is of an obsolete character, and should sooner or later be demolished to form a portion of the site of the new Law Courts, the expenditure upon the additions has been confined to the barest necessities, and the buildings must be considered as of a temporary character only.

The addition to the Custom House was necessitated by the adoption of land and income taxes as a new source of revenue, this Department requiring the accommodation for a very considerable new staff of officers.

The Museum roof—that is, the portion over the central building—owing to the ravages of white ants, which found their way from the streets up through the interstices of the stone wall to the roof and rendered it unsafe, has been entirely reconstructed, mostly in iron with copper covering, while every effort has been made to eradicate this expensive and dangerous pest.

made to eradicate this expensive and dangerous pest.

The expenditure at the Supreme Court has provided two additional fully equipped court-rooms, fitted in the most modern style with all the accommodation necessary for the proper discharge of the duties of the higher Courts of justice. They are lighted from the top and ventilated by mechanical means, and present

present a handsome and substantial appearance. The accommodation for the public, as distinct from that of the legal profession, is purposely limited to seating for about fifty persons in each court. Attached is a range of chambers and offices in which His Honor the Chief Justice and the Judges of the Supreme Court and their Associates are accommodated, in lieu of the old and inconvenient rooms which for many years did duty for the same purpose.

The expenditure at Callan Park Hospital for the Insane covers new buildings erected to accommo-

date the increased staff of attendants.

The Court-house at Parramatta is one of the most important works carried out during the year. Its erection had long been delayed owing to a variety of reasons, one of which was the difficulty in determining as to its site. This, however, being got over, the new buildings have been erected in brick with stone dressings, with an elaborate and handsome stone portico. The court-house proper contains full accommodation for all the legal business likely to be transacted at Parramatta, and extensive ranges of police buildings are attached in the rear. These comprise general lock-up, Inspector and Sergeant's quarters, barracks for constables, and a range of stabling for mounted troopers; the whole forming, probably, the most complete establishment of the kind in the Colony. The design, both externally and internally, is based on less stereotyped lines than is usually the case, and may be considered successful.

An almost similar expense has been incurred in the erection of a Court-house and extensive police establishment at West Maitland, and in this case also the building was delayed until the site was finally settled upon. It is roomy and convenient, carefully designed, and has an imposing clock tower at the corner of the two public streets against which it stands. The lock-up and police buildings are very

complete in all respects; stabling has yet to be provided.

The Post Office at Parramatta has been considerably improved, much needed accommodation being

provided for the public, and better quarters for the Postmaster.

The expenditure at Rydalmere covers the erection of an extensive hospital, partly by the conversion of existing buildings, but principally by the erection of new ones. The buildings have been designed with all modern appliances in order to provide for the efficient working of this large establishment.

The new buildings erected for the Police Department are mainly represented by the following:—Surry Hills, Broken Hill, Fernmount, Forbes, Junee, Murrumburrah, Maclean, Rylstone, Singleton, Sofala, and Tumut; those for the Postal Department, by Five Dock, Summer Hill, Mount Victoria, Minmi, and

Robertson Post Offices.

New offices have been erected for the Lands Department at Dubbo, Hay, and East Maitland. The works carried out for the Justice Department are mainly represented by the erection of the New Court Houses at Greta, Katoomba, and Nowra, and the additions to the existing buildings at Parkes

A considerable expenditure has been incurred on buildings in progress but not completed during ar. Prominent amongst these is the Kenmore Hospital for the Insane, on which no less than £47,103 have been expended during the year, in accordance with the general scheme adopted in the first instance, and for which an annual vote is taken until such time as the accommodation meets the requirements of the Inspector-General of Insane.

Amongst other buildings of an important character in course of erection during the year were the

following :-

						Year's	Expenditure.
		***	***	***	***		7,299
				***	***		4,684
Art Gallery (additions to).			***	***			8,213
Government Printing Offic	e (additions	and	alterations)		***		8,258
Royal Mint (additions to).		***	***	***	4.4%		3,563
The Treasury (additions to)	***	***	***	***	***	2,489

It is again my urgent duty to draw attention to the state of dilapidation into which a large number of country buildings have necessarily fallen, owing to the want of periodical attention. Since 1893 the Vote for repairs has been very seriously diminished, so much so as to be below the degree of efficiency. The Votes are not only lower in amount, but have been, to a considerable extent, owing to the annual increase in the business carried on in the several buildings, and to the latter becoming in many instances somewhat obsolete, absorbed in expenditure undertaken for improvements and additions, as distinct from repairs, making the Vote itself still more inadequate. The average annual sum available since 1893 for this purpose has been about £30,000, whereas it should be at least £50,000. If the latter sum were granted for four succeeding years, I believe it would be possible to place every building in a fair state of repair, and to arrange future periodical works according to a table, giving attention by rotation to all the buildings.

I am aware that the Branch has been undeservedly criticised by other Departments for the delay in fulfilling requisitions for repairs and improvements, but when it is pointed out that no sooner is a year's Vote available, than nearly the whole of it is at once appropriated for requisitions brought on from previous years, the reason of the delay as regards newer requisitions will be at once apparent.

During the year I was instructed to prepare preliminary sketches for an Exhibition proposed to be held in 1899, and I accordingly prepared some for submission, applicable to the outer Domain as a site and at an estimated cost of about £183,000. The matter was brought under consideration, but for various

important reasons it has been indefinitely postponed.

I was further instructed to prepare designs for a new House of Parliament at an estimated cost of £500,000, and to provide accommodation that would be suitable and ample for all future eventualities. accordingly organised a staff of able assistants, and, with close personal attention, prepared plans and designs, including a plaster model of the design. These were subsequently brought before the Parliamentary Standing Committee on Public Works for investigation, but the labours of the Committee in this matter were not completed by the end of the current year.

A considerable part was taken by this Branch in the decoration and illumination of the Public buildings of Sydney, commemorative of the Jubilee of Her Majesty.

A Schedule of the expenditure on the various buildings and services is hereto attached.

W. L. VERNON,

Government Architect.

(XIII.)

RETURN of Expenditure on Public Works carried on by Government Architect from 1st July, 1896, to 30th June, 1897.

	outh o	une, 189	1.				
Work, and where situated.	Whether Constructing or under Repair.	Fund from which the Expense is defrayed.	When Commenced.	If Finished, actual amount of Expendi- ture.		Amount expended from 1st July, 1896, to 30th June, 1897.	Furniture.
			1	1		1	
Audit Office SYDNEY.	Renaire &c	1	1896	£ s. d. 71 17 6	£ s. d.	£ s. d.	£ s. d. 5 10 11
Attorney-General's Office	,,		33	50 5 9	*********	30 6 11	19 18 10
Agriculture, Department of		Con. Rev.	22:	1 17 10		1 17 10	******
Admiral's Residence		Ivev.	32	132 18 0	********	114 12 4	18 5 8
Art Gallery	Additions	Loans	1895	0 19 4	9,579 3 7	8,213 2 2	******
39	Additions	(Con.)	1000	*******	0,010 0 1	0,210 2 2	*******
Argyle-street Police Station	Repairs, &c	} Rev. & }	1896	2 0 0	********	2 0 0	******
Potentia Control District Politica	4.4.3242	(Leans.)		111			
Botanic Gardens—Director's Residence Refreshment Room, &c	Additions, &c Repairs, &c	Rev.	33	444 5 7 124 3 4	**********	444 5 7 86 2 7	38 0 9
	arelanted mentions	Con.	22	****			
Belmore Police Barracks	,,	Rev. &	,	********	128 4 8	128 4 8	******
	Furniture	Loans.	1.	98 16 10			98 16 10
Chancery Square Courts	Repairs	Con. Rev.	53	111 18 6	*********	108 1 0	3 17 6
33 33 474444444444444444444444444444444	Furniture	} Loans {	1895	1 11 2	********		******
Contract 17	Additions	Con. Rev.	1000	1,671 15 5	********	1,544 12 11	1 11 2
Custom House	Repairs	(Con.)	1896	42 15 1		42 9 7	0 5 6
	Additions	Rev. & }	1895	2,209 18 10		1,461 2 10	
	Donales As	(Loans.)	7000	07 0 7		07 0 5	
Coroner's Office	Repairs, &c	1	1896	27 3 7 9 2 9	*********	27 3 7 9 2 9	
Crown Law Office	33 ********		11	100 9 3	*********	0 18 7	99 10 8
Central Police Court	Erection		2.5	105 7 10		93 12 7	11 15 3
Centennial Park—Cycle Pavilion	Additions	Con.	1895	566 15 3 177 6 9	*******	482 15 3	******
,, Cottage, Latrines, &c	Repairs, &c	Rev.	1896	39 -2 8	*********	39 2 8	*******
Roadway	Construction		22	173 14 6	*******	173 14 6	
Gate and Piers	Erection		19	121 1 8 33 5 11	*******	121 1 8	33 5 11
Colonial Secretary's Office	Repairs, &c		33	104 7 9	********	38 3 6	66 4 3
,, Lifts	,,) (33	13 2 6		13 2 6	
		Con.		805 0 0	200000000000000000000000000000000000000	890 0 1	
Darlinghurst Gaol	,,	Rev. & Loans.	**	695 8 2	********	680 9 1	14 19 1
", ", Multitubular Boiler	Erection, &c	Loans.	25		215 0 0	215 0 0	*******
, Police Station	Erection	1	1895	1,119 0 8	*******	53 0 8	******
,, Furniture	********	Con. Rev.	1893	5 15 4	*******		5 15 4
Court-house, Repairs, Alteration Electric Light, &c	Repairs, &c	Rev. &	25	690 3 9		690 3 9	
	and and and a second	(Loans.)	"				
Receiving-house	11	Loans	25	0 5 10		0 5 10	
District Court Domain—Cottage, &c.	*******		33	2 8 3 48 18 9	*******	1 13 6	0 14 9 18 15 0
Exhibition Building (new)	Incidental		12	4 5 10	********	4 5 10	
Electoral Office	Repairs, &c		- 55	12 14 7	*******	8 12 7	4 2 0
Free Public Library Lending Branch	11	1	33	109 19 5 5 10 0	********	102 7 5 5 0 0	7 12 0 0 10 0
Fisheries, Department of	10	Con.	55	0 12 7	*******	0 8 7	0 4 0
Governor Duff's Memorial-Kerbing, &c	Erection	Rev.	. 22	221 10 9	*******	221 10 9	004 4 0
Government House	Repairs, &c		22	658 9 8	1,316 0 0	324 8 5 1,316 0 0	334 1 3
,, Heating apparatus hot-houses	Erection		11	113 17 3		113 17 3	*******
Saltwater Baths	Repairs, &c		11	247 1 6		247 1 6	21 0 4
Government Printing Office	,,		22	204 14 5 97 12 4		183 14 1 86 6 4	11 6 0
,, Lifts			22	6 3 9	*********	6 3 9	********
	Additions, &c	Loans	22	*******	18,773 17 9	8,258 18 7	******
General Post Office	Repairs, &c	Con. Rev.	1895	867 19 7	********	712 18 8	65 0 11
Government Statists Office	,,	Con. Rev.	1896	29 1 3		3 3 10	25 17 5
Governor Phillip's Statue—Foundations, &c	Construction, &c	Con. Rev.	1893		6,455 13 5	473 12 2	
George-street North Police Station	Repairs, &c	and Loans	1896	2 19 2		2 19 2	
Garden Palace Grounds Shelter Pavilion	Erection	Rev.	1000		265 0 0	265 0 0	
Health Board Office (Old)	Repairs, &c	Con. Rev.	>>	57 11 2		0 13 2	56 18 0
(NTX	Paradian	and Loans	1895	1000	4,809 19 4	4,684 19 6	
,, (New)	Repairs, &c	Loans Con. Rev	1896	1 13 5	4,000 10 4	1 13 5	*******
Insolvency Court	,,	Con. Rev.	***	38 19 9		32 19 9	6 0 0
		and Loans.				220 0 0	
Justice Department	Erection	Loans	55	330 0 9 281 0 9		330 0 9 69 9 8	211 11 1
Lands Office	,,	Con.	25	250 9 2		220 12 0	29 17 2
,, Lifts)	>>	382 10 3	******	382 10 3	*******
Land Valuation Office	Additions	Loan	"	116 15 10 3 8 3	********	116 15 10	3 8 3
Lunacy Department	Repairs, &c	Con	22	5 12 2		0 11 4	5 0 10
Labour Bureau	Furniture	Con.	22	3 3 0	*******	6 4 9	3 3 0
Land Tax Office Mines Department	Repairs, &c		"	78 8 3 210 2 1		6 4 9 73 19 9	72 3 6 136 2 4
,,	Additions	Loan	22	46 10 0		46 10 0	
Museum	Repairs, &c	Con. Rev.	25	362 10 6	********	362 10 6	
,, New Roof	Erection	Loans	1895 1896	1,277 6 10	3,048 11 7	642 6 10 3,048 11 7	
Mint, Royal -Additions and Repairs	Additions, &c	Con. Rev.	31	********	3,563 10 5	3,563 10 5	*******
	Evention for	and Loans.			900 0 0	900 0 0	
Marine Board Office	Erection, &c	Loan	"	1 15 0	200 0 0	200 0 0	1 15 0
Master-in-Equity's Office		1	22	1 12 4	*******		1 12 4
Military Offices	Repairs, &c	1	2.7	1 4 0		1 4 0 10 16 7	******
Morgue, Circular Quay ,, South Sydney	,,	1	33	10 16 7 12 16 8	*********	10 16 7	2 5 0
Martin Place Fencing	Erection	Con.	53	90 10 0	*******	90 10 0	
Naval Depôt	Repairs, &c	Rev.	,,,	10 14 10	*******	10 14 10 96 9 0	******
Ormonde House	33 *******	2	"	96 9 0 37 0 4	********	37 0 4	*******
Ordnance Department	Furniture	TO BE	23	5 2 0	*********		5 2 0
Public Works Department	Repairs, &c		33	992 13 1	*********	696 10 0	296 3 1
	Additions, &c	Loan		5 11 3	********	5 11 3	********
" " Lifts	Repairs, &c	Loan	33	649 17 1	********	649 17 1	******
Public Instruction Department	"	Con.	,,	45 1 6	*******	45 1 6	******
Parliamentary Buildings	13	Rev.	27	524 10 5	********	391 6 6 108 15 5	133 3 11
Parliament, New Houses of	Attending to gas, &c. Erection	Loan	33	108 15 5	297 12 3	297 12 3	
Parliamentary Draftsman's Office	Repairs, &c	Con.	33	7 2 3		7 2 3	*******
Public Works Committee Office	22 *******	Rev.	33	69 11 4 0 14 3	*******	69 1 4 0 14 3	0 10 0
Pharmacy Board Office	,,	,	17	0 14 3	********	0 14 0	******
		-	-				

Work, and where situated.	Whether Con- structing or under Repair.	Fund from which the Expense is defrayed.	When Commenced.	If Finished, actual amount of Expendi- ture,		Amount expended from 1st July, 1895, to 30th June, 1897.	Furniture.
SYDNEY-continued.				£ s. d.	£ s. d.	£ s. d.	£ s. d.
Public Service Board Office	Repairs, &c	1.	1896	157 3 2 0 15 0	*********	59 10 5 0 5 0	97 12 9 0 10 0
Registrar of Friendly Societies	Furniture	1	"	28 17 9 1 10 0	********	********	28 17 9 1 10 0
Registrar-General's Department	Repairs, &c	Con. Rev.	33	76 3 6 1 11 8		75 13 6 1 11 8	0 10 0
Richmond Terrace	19		"	39 6 6		22 19 0	16 7 6
Supreme Court		Con.	31	663 14 6		193 0 5	470 14 1
. 31	Additions, &c		1894	13,244 19 2		1,948 19 9	*******
Stamp Office	Repairs, &c Furniture		1896	2 0 9 10 0 4	*********	2 0 9	10 0 4
Stores Department	Repairs, &c	Rev.	22	25 0 0 4 0 1		24 10 0 4 0 1	0 10 0
Sydney Hospital, South Wing, &c	Erection	} Loan {	1896	1,397 6 4	287 4 6	1,397 6 4 287 4 6	*****
Treasury	Repairs, &c	Con. Rev.	33	106 10 11	201 4 0	57 5 10	49 5 1
The state of the s	Additions	Loan	1895		2,642 5 3	2,489 7 6	
Transway Construction Branch	Repairs, &c.	Con.	1896	28 4 0 16 15 6	*********	28 4 0 15 17 6	0 18 0
***************************************	Lighting lamps, &c.	Con.	35	135 15 0	********	135 15 0	******
Water Police Court	Repairs, &c	Rev. & Loan	32	11 3 11	********	11 3 11	******
n n	Additions		23	91 12 0		91 12 0	
ANNANDALE, SUBURBS.							
Post and Telegraph Office	Repairs, &c		23	9 12 6		9 12 6	******
Post and Telegraph Office	Purchase of land	Loan	22	352 8 0	********	352 8 0	******
BILOELA. Gaol	Repairs & additions	Con. Rev.	>>	855 9 4	********	851 4 9	4 4 7
Burwood. Post and Telegraph Office	Repairs, &c	and Loan. Con. Rev.,		17 9 0	********	17 9 0	
Balmain. Post and Telegraph Office	,,		22	76 11 4		76 11 4	******
Court-house	33 *******		23	21 11 10	********	1 15 3	19 16 7
Town Hall	,,		25	0 7 0		0 7 0	
Brush Farm Reformatory.			13	********	27 14 0	27 14 0	
Tanks BRUSH FARM REFORMATORY	Erection, &c Repairs, &c		22 -	125 3 0 11 10 0		125 3 0 11 10 0	*******
Wall, "Sobraon" Recreation Ground	Repairs	Con,	32	22 9 0		22 9 0	
Coast Hospital. Leper Lazaret	Repairs, &c	Rev.	33	263 2 5 162 1S 8	*********	241 7 5 146 18 8	21 15 0 16 0 0
Callan Park. Hospital for Insane				82 6 1		82 6 1	
n n	Additions, &c	Con. Rev.	1895	3,225 1 3	********	1,609 8 3	****
Camperdown, "	Furniture	Con.	1896	80 14 3	*********		80 14 3
Post and Telegraph Cffice DRUMMOYNE.	Alterations) Rev. (>>	5 10 0	*******	5 10 0	
Post and Telegraph Office	Cost of land) (33	500 0 0		500 0 0	
Post and Telegraph Office	Repairs, &c	T	22	3 0 0		3 0 0	
Post and Telegraph Office	33	Loan d	23	151 19 8		151 19 8	******
Post and Telegraph Office		1	1895	1,009 14 2	*******	429 14 2	*********
GLADESVILLE.	Furniture	Con	1896	23 12 3	*********	00 7 70	23 12 3
Hospital for Insane	Additions	Bev.	1895 1896	238 7 10 584 7 11		23 7 10 584 7 11	
Post and Telegraph Office) (23	8 11 6		8 11 6	
Court-house	Repairs, &c	Con. f	22	7 10 0	*********	41 0 0 7 10 0	*******
KOGARAU.	Additions	Rev. (23	384 6 4	** *******	384 6 4	
Post and Telegraph Office		Loan	23	41_19 6	********	41 19 6	*****
Post and Telegraph Office		COM.	33	72 10 0		72 10 0	*******
Post and Telegraph Office	Repairs, &c	Con. Rev.	27	116 1 6 22 1 3		116 1 6 11 12 9	10 8 6
Newington, Asylum	Repairs	and Loans Con. Rev	33	81 14 10		81 14 10	
NORTH SYDNEY.	Additions	Loan	33		1,041 7 9	1,041 7 9	
Post and Telegraph Office	Repairs, &c	Loan and Con. Rev.	22		55 9 0	55 9 0	******
Court-house	,,		22	39 17 6	********	39 17 6	****
Court-house Police Station			"	5 10 2 0 7 7		4 6 4 0 7 7	1 3 10
Petersham. Post and Telegraph Office		Ton	"		* 000 0 0		
PARRAMATTA. Gaol			"	700 0 11	1,900 0 0	1,900 0 0	10 17 6
Court-house	Repairs, &c	Con. Rev.	71	789 2 11	*******	778 5 5	10 17 6
33 ************************************	Repairs		1895 1896	13,985 9 5	*********	4,887 16 3 7 4 1	********
Post and Tolograph Office		Con. Rev.		101 6 7		700 10 0	101 6 7
Post and Telegraph Office	Repairs	Con. Rev	1895 1896	1,179 10 0 260 10 2	********	569 10 0 260 10 2	
Benevolent Asylum (George-street)	Additions Repairs, &c) Con (33	57 15 10	602 6 2	602 6 2 50 5 10	7 10 0
North Post and Telegraph Office	33 ********	Rev.	33	3 12 2 17 16 10	********	3 12 2 9 18 6	7 18 4
Old Court-house	4 39	Loan	,,	203 16 10		45 1 7	
ROOKWOOD,	Land	1		125 0 0	*******	125 0 0	*******
Benevolent Asylum	Repairs	Con. {	23	125 0 0 176 3 11		168 2 11	8 1 0
" " " " " " " " " " " " " " " " " " " "	Land	Con. { Rev. { Loan))))	176 3 11 50 0 0	*********	168 2 11 50 0 0	8 1 0
33 33 *****************	Land Repairs Repairs, &c. Additions Irrigation	Con. { Rev. { Loan Con. Rev	11	176 3 11	*******	168 2 11	8 1 0

TOBIOTIN OF E	ALEMDITORE ON	1 opnic	110.	ins, co.	ontonacu.		
Work, and where situated.	Whether Con- structing or under Repair.	Fund from which the Expense is defrayed.	When Commenced.	If Finished, actual amount of Expendi- ture.	If Unfinished, amount of Expenditure to 30th June, 1897.	Amount expended from 1st July, 1896, to 30th June, 1897.	Furniture.
SUBURBS—continued.			B B	£ s. d.	£ s. d.	£ s. d.	£ s. d.
RYDE.	A 3.3141 ann	Loan and	1000	4 15 0		4 15 0	
Court-house, &c	Additions	Con. Rev.	1990		*********		
Post and Telegraph Office	,, ,,,,,,,,,	Con. Rev	35	40 6 6	********	40 6 6	******
Post and Telegraph Office	Fencing	Loan {	33	14 10 0	*******	14 10 0	*******
Court-house Post and Telegraph Office	Erection	Con. Rev.	1895 1896	10 0 0	7,305 15 6	7,299 9 6	
RYDALMERE.			1895	7,480 9 9		3,446 0 0	
Hospital for Insane	Erection and addi-	Con. Rev.		1,400 0 0	43 5 0		*******
33 33	Repairs	Con.	1896	135 19 8	45 5 0	43 5 0	135 19 8
SOUTH HEAD (SYDNEY). Shaftesbury Reformatory	Repairs	Rev.	11	19 0 0	*******	19 0 0	2 14 2
Macquarie Lighthouse	Furniture		>>	2 14 2	********		2 14 2
Lock-up	Erection	Loan Con. Rev.	1895 1896	3,045 17 1 15 13 9	*********	47 3 2 4 18 9	10 15 0
SUMMER HILL. Post and Telegraph Office	-	and Loan.		720 0 0		720 0 0	
STANMORE.	Land	Town	9.9	37 19 1		37 19 1	
Police Station	Drainage	Loan	9.9				*******
Post and Telegraph Office	Addition	,	22	2 6 0	********	2 6 0	******
Post and Telegraph Office	Stove	Con. Rev Loan and	22	8 10 0 2 8 3	********	8 10 0 2 8 3	*******
Woolloomooloo, Police Station	,,	Con. Rev.	33	0 10 9	*********	0 10 9	
+			**				
ALBURY.							
Post and Telegraph Office	1,) (2.9	3 15 0 109 5 5	*********	3 15 0 104 8 5	4 17 0
Police Station		Con.	25	32 10 3 2 18 5		32 10 3 2 18 5	
Clerk of Works Office	Incidental	Rev.	2.3	1 0 0		1 0 0	
Post and Telegraph Office	Repairs and altera-)	23	21 6 9	********	19 11 0	1 15 9
Court-house	tions.	Con. Rev.	"	40 11 6	*******	40 11 6	******
Lock-up	Repairs, &c Repairs and addi-	Con. Rev Loan and	23 23	10 0 0	128 15 4	10 0 0 128 15 4	*******
	tions. Furniture	Con, Rev.	"	9 3 4		*********	9 3 4
Clerk of Works Office	Incidental	Con. Rev.	23	16 2 7	********	16 2 7	*******
Post and Telegraph Office	Repairs)	2.7	10 0 0	*******	10 0 0	
Post and Telegraph Office	Additions		22		57 2 6	57 2 6	*****
Post and Telegraph Office	Land	- Loan	22	45 0 0	********	45 0 0	******
Post and Telegraph Office	Additions		23	69 10 0 1 15 0	**********	69 10 0	1 15 0
ALECTOWN. Police Station	Stove	Con. Rev	27	6 0 11		6 0 11	*******
ABERDEEN. Police Buildings				12 15 0		12 15 0	*******
Court-house	Farniture	Con. Rev	33	26 3 9	********		26 3 9
BATHURST. Gaol	Repairs, &c	Loan and	33	976 2 0		976 2 0	
	Furniture	Con. Rev	23	10 12 4		*********	10 12 4
Post and Telegraph Office	Repairs	Loan	32	74 2 6	69 16 6	69 16 6 74 2 6	*******
Court-house),	Con. Rev.	33	2 3 6		2 3 6	*******
Clerk of Works Office Lock-up	Incidental Repairs	Con. Rev	22	36 11 0	*********	36 11 0	8 15 1
Police Station	33 *********	Con. Rev.	13	11 14 10	*********	2 19 9	0 10 1
Gaol	Furniture	Rev. {	12	14 1 11 2 12 11	*******	14 1 11	2 12 11
Broken Hill. Gaol	Additions	Con. Rev.	1895	943 17 8	*********	547 19 1	
_,	Repairs, &c	and Loan Con. Rev	1896	35 8 9		28 15 0	6 13 9
Post and Telegraph Office	Additions	Loan and Con. Rev.	33	69 7 6	*********	69 7 6	******
Court-house Police Barracks	Repairs, &c Erection	Loans	1895	10 6 9 2,704 0 0	*********	8 14 11 1,899 0 0	1 11 10
Clerk of Works Office	Incidental	Con.	1896	1 2 10		0 14 1	0 8 9
Court-house Post and Telegraph Office	Repairs, &c	Rev. \	11	3 6 3 171 19 2		3 6 3 171 19 2	*******
Gaol	Furniture	Con.	27	1 10 1			''i'i0' 1
Braidwood. Court-house		Rev.	33	1 6 6	*******	44 5 0	1 6 6
Police Station	Additions	Con. Rev.	33	44 5 0	********		4 16 3
Lock-up GaolBoogabri.	Repairs, &c	Con. Rev.	1005	20 10 6	*********	15 14 3	
Court-house	** *******	Loan and Con. Rev.	1895	105 8 4		52 10 0	7 9 7
	The same the same	Con.	1896	7 9 7	********	200.10.1	7 9 7
Berrima.	Furniture					102 16 1	******
BERRIMA. Gaol	Repairs	f Rev. (22	102 16 1			
Berrina. Gaol Badranald. Court-house Bingara.	Repairs	Rev. ("	1 0 0		1 0 0	
Berrima. Gaol Balranald. Court-house	Repairs	f Rev. (1 0 0 382 19 0	77		*******
BERRIMA. Gaol BADRANALD. Court-house BINGARA. Post and Telegraph Office	Repairs	Loan Con. Rev. and Loan. Con. f	,, 1895 1896	1 0 0		1 0 0	
BERRIMA Gaol BABRANALD. Court-house BINGARA. Post and Telegraph Office Court-house BERWARRINA.	Repairs	Loan Con. Rev. and Loan. Con. f	1895 1896	1 0 0 382 19 0 0 19 6		1 0 0 5 0 0	0 19 6
BERRIMA. Gaol BALRANALD. Court-house BINGARA. Post and Telegraph Office Court-house "Court-house"	Repairs	Con. Rev. and Loan. Con. f Rev. {	,, 1895 1896	1 0 0 382 19 0 0 19 6 15 2 9		1 0 0 5 0 0 0 0 10 0	0 19 6 14 12 9

Work, and where situated.	Whether Con- structing or under Repair.	Fund from which the Expense is defrayed.	When Commenced.	If Finished, actual amount of Expendi- ture.	If Unfinished, amount of Expenditure to 30th June, 1897.	Amount expended from 1st July, 1896, to 30th June, 1897.	Furniture.
COUNTRY—continued.				£ s. d.	£ s. d.	£ s. d.	£ s. d.
Ballina. Court-house Police Station	Repairs, &c	Con. Rev Loan	1896	11 7 6 4 17 6	********	11 7 6 4 17 6	
Bowral. Court-house	Additions, &c		13	79 15_ 3		64 10 0	15 5 3
Barraba. Police Station	Furniture, &c		27	5 15 6	********	0 15 0	5 0 6
Court-house	Repairs, &c		33	57 5 0 10 4 7	********	57 5 0 2 5 0	7 19 7
Burrowa. Police Station	59	Loan	22	3 10 0		3 10 0	
Post and Telegraph Office	Legal charges	Con. Rev	33	1 6 3	*******	1 6 3	*******
Post and Telegraph Office	Erection	Loan	23	*********	125 12 7	125 12 7	*******
Court-house Post and Telegraph Office	Fencing	Con. Rev	27	51 9 9	13 12 6	51 9 9 13 12 6	*******
BATEMAN'S BAY. Post and Telegraph Office BUNGENDORE.	Additions		33	109 14 0	********	109 14 0	*******
Post and Telegraph Office Buckley's Crossing.	Erection	Loan	1895	562 18 0	********	262 18 0	*******
Court and Watch-house	Additions	1 100	1896	49.0.0	516 17 6	516 17 6 43 0 0	*******
Police Station	Repairs		1895	43 0 0 545 15 8	*********	230 5 8	*******
Court and Watch-house	Repairs		1896	4 10 0	**********	4 10 0	********
Police Station	33	Con. Rev.	2)	6 2 0		6 2 0	*******
Court-house	Addition	1	33	0 16 1	********	0 16 1 8 5 0	*******
Police Station	Addition	Loan	22	8 5 0 305 18 1	********	303 9 9	2 8 4
Police Station	33 ********	Con. Rev	- 11	33 0 0	*******	33 0 0	
Police Station	Stove		"	5 15 2	*********	5 15 2	******
Court-house		Con. Rev.	1895	7 0 0	*********	93 8 0	*******
Lock-up	Erection	Con. Rev	1895	487 8 6		291 8 6	*******
Police Buildings	Fencing and gate	Loan	1896	27 0 6		27 0 6	
Post and Telegraph Office		Con. Rev.	22	11 10 0	*******	11 10 0	*******
Post and Telegraph Office	Repairs	Con. Rev.	27	50 2 3 8 10 0	********	50 2 3 8 10 0	*******
Post and Telegraph Office	,,	Loan	1)	*********	38 0 0	38 0 0	
Custom-house	Fencing		23	83 1 6	********	83 1 6	******
Police Station	Repairs		33	99 0 0 59 0 0	********	99 0 0 59 0 0	
Court-house	Furniture) Con. (11	1 18 1	100 0 0	100 0 0	1 18 1
COONAMBLE. Lock-up Gaol	Repairs	Rev.	11	2 0 0		2 0 0	*******
Police Station	Laying on water		99	10 1 8		10 1 8	
Police quarters	Repairs, &c	Con. Rev.	33	50 13 8	********	50 13 8	
Cooma. Court-house	,,	Loan and	"		0 15 2	0 5 0	0 10 2
Police Station	,,	Con. Rev.	1)		150 10 0	150 10 0	
Lands Office	33 *******	Con. Rev	22	2 0 0	366 0 0	2 0 0 366 0 0 0 12 2	********
Gaol	33	Con.	22	4 18 6	*********	4 18 6	
Camden. Court-house	,, ,,,,,,,	Rev.	27	0 12 6		19 0 0	0 12
Police Station	Repairs	Loan	77	12 9 0	65 0 0	12 9 0 65 0 0	
Post and Telegraph Office	Alterations, &c) (33	*********	138 2 9	138 2 9	*******
Court and Watch-house	Repairs, &c	Con.	33 33	22 14 3 52 14 4		5 0 0 52 14 4	17 14 3
Lock-up Gaol	Additions	Rev.	1895 1896	239 0 0 0 0 9 6		217 0 0	0 9 6
Casino, Police Station Post and Telegraph Office	Tank		22	5 0 0 21 9 6	*********	5 0 0 21 9 6	*******
Lock-up Gaol	,, ,,,,,,,,,	} Loan {	22	*********	20 0 0	20 0 0	*******
Court-house	;; ···········	Rev	1895	75 0 0	63 12 6	63 12 6	
Lock-up Gaol	33	} Con. {	33	10 0 0	********	10 0 0 0 60 0 0	
Carcoar, Gaol	,,	Loan Con. Rev	23	4 13 0	34 5 0	34 5 0	4 13 0
CARRATHOOL. Post and Telegraph Office		Loan	1896	8 0 0	*********	8 0 0	
Condonation. Court-house	Repairs		33	42 0 0		42 0 0	******
Post and Telegraph Office	,,	Con	33	2 0 0	*********	1 7 9	*******
Police Station	Pump	Rev.	33	7 10 0		7 10 0	********
Copeland, Court-house) - (22	63 0 0		63 0 0	
				1			

	1	,			CONTENTION.		
Work, and where situated.	Whether Con- structing or under Repair.	Fund from which the Expense is defrayed.	When Commenced.	If Finished, actual amount of Expendi- ture.	If Unfinished, amount of Expenditure to 30th June, 1897.	Amount expended from 1st July, 1896, to 30th June, 1897.	Furniture.
COUNTRY—continued.				£ s. d.	£ s. d.	£ s. d.	e
CORARI. Police Station	Tank	Loan	1896	8 15 0			£ s. d.
COPMANHURST. Police Station	Repairs, &c	The state of the s	1000		11171111	8 15 0	******
CROOKWELL.		Con.	23	6 11 8	********	6 11 8	******
Police Buildings Court-house	Furniture		23	2 16 11 2 15 0	*********	2 15 0	2 16 11
Cooloon (Tweed Heads), Police Buildings	Erection	} Loan }	1895	767 16 6		The state of the s	******
CANDELO. Post and Telegraph Office	Additions, &c		1896			221 10 0	
CARGO. Police Station	Stable	1 0	1000	340 6 10	********	337 0 6	3 6 4
CAMDEN HAVEN.		Rev.	33	107 0 0		107 0 0	****
Coolamon.	Furniture	/	3.2	6 4 5	*******		6 4 5
Post and Telegraph Office	Erection	Loan	23	502 0 0	*******	502 0 0	
Court-house	Repairs	Con.	13	34 10 0		84 10 0	
Post and Telegraph Office	,,	f Rev.	11	59 3 0	********	59 3 0	******
Police Station	Addition	Loan	33	5 15 0	********	5 15 0	
Police Barracks Deniliquin.	Land	Con. Rev.	22	352 10 0		352 10 0	******
Police Station	Furniture	Con. {	1895	4 14 0 135 16 6		52 9 7	4 14 0
32	Additions	Loan	1896	259 19 0	*********	259 19 0	1 7 1
Court-house	Repairs, &c	Rev.	33	1 7 1 16 7 4	********	5 0 0	11 7 1
Dubbo, "	Alterations, &c	Loan	,,,	78 7 6	*********	78 7 6	
Gaol	Repairs Cooking Plant	Con. Rev	>7	30 5 10 177 11 6	**********	30 5 10 177 11 6	*******
Court-house	Additions	Loan, & Con.	1895 1896	3 13 0	1,008 11 6	200 0 0	
Police Station Lands Office	Furniture	Rev.	1895	1 4 0	********	3 13 0	1 4 0
Dungog.	Furniture	5 - (1895	3,573 12 11 185 8 6	*******	192 10 10	185 8 6
Post and Telegraph Office	Repairs	Con. Rev.	,,	5 0 0	*********	5 0 0	
Court-house and Lock-up Drake.) (23	23 0 0	*******	23 0 0	
Court-house and Lock-up	Erection	Loan, and Con. Rev.	1895	976 15 3	*******	379 10 3	
Police Station	22	Loan	1896	889 9 7		889 9 7	******
Police Buildings	,,		,,	356 6 0		356 6 0	
Court-house	Repairs		39		55 14 0	55 14 0	*******
Post and Telegraph Office	,,	Con. Rev.	,,	28 12 0		28 12 0	
Police Station	33	f Rev. ?	33	8 1 4	********	8 1 4	
Post and Telegraph Office	11	Loan	33	6 0 0		6 0 0	*****
Police Buildings	Tank	Con. Rev	,,,	5 5 0		5 5 0	
Post and Telegraph Office	Additions, &c	Loan	31	29 7 1	*******	23 0 0	6 7 1
Police Buildings EUABALONG.	Repairs	Con.	33	1 13 9		1 13 9	
Police Station		Rev.	,,	3 11 4		3 11 4	*******
Court-house	Repairs, &c	Con. Rev	3.5	3 3 4		1 8 6	1 14 10
Police Station Post and Telegraph Office	Alterations	Loan	1895	142 9 6 494 7 6	********	142 9 6 344 7 6	*******
Gaol	Repairs, &c	Rev. (1896	13 3 1		13 0 7	0 2 6
99	Fencing		27		140 13 10 61 5 0	140 13 10 61 5 0	
Survey Office Police Barracks	Furniture	Con. Rev	33	0 11 2			0 11 2
FOSTER.	Erection		22	1,549 8 0	********	1,549 8 0	
Police Station FERNMOUNT. Police Paillaines	Repairs		27	87 10 0	******	87 10 0	
Police Buildings	Erection	Loan	22	1,454 14 7		683 18 11	
Court-house and Police Buildings GOULBURN,	Repairs	Loan	12	48 1 0	*******	48 1 0	********
Gaol Court-house	Repairs, &c	Loan & S	>>	333 14 3	*********	333 14 3	
Post and Telegraph Office	33 *********) Rev. (32	4 19 6 1 1 0	********	4 19 6 0 13 6	0 7 6
Police Barracks Clerk of Works' Office Land and Survey Office	Incidental	Loan	33	7 0 0 2 6 6	00.75.0	7 0 0 2 6 6	
GRAFTON.	Furniture	Con. Rev.	22	0 13 2	89 15 0	89 15 0	0 13 2
Gaol	Repairs, &c		33	9 13 2		9 13 2	*******
Post and Telegraph Office	,, ,,,,,,	Loan Con. Rev	22	80 8 6 10 12 5		80 8 6 10 12 5	
55 ***********************************	Pump	} Loan. {	35	3 2 0 69 3 0	********	3 2 0 69 3 0	*******
Lock-up Lands Office, &c.	Addition) . (27	6 4 6 89 1 9	********	6 4 6	10 6 5
Clerk of Works' Office	Incidental	Rev.	1)	5 0 11		76 15 4 5 0 11	12 6 5
			23	22 6 0		22 6 0	******
Court-house	Repairs	Long	2.5	and the same of th			
Court-house Police Station, &c. GUNNEDAH.	Repairs		22	6 13 0	*******	6 13 0	******
Court-house Police Station, &c. GUNNEDAH. Post and Telegraph Office Court-house	Repairs	(Loan &)	12	6 13 0 62 15 0 62 18 6	********	62 15 0	*******
Court-house Police Station, &c. GUNNEDAH. Post and Telegraph Office Court-house Lock-up Gaol GLEN INNES.	Repairs	(Loan &)	22	62 15 0			
Court-house Police Station, &c. GUNNEDAH. Post and Telegraph Office Court-house Lock-up Gaol GLEN INNES. Post and Telegraph Office	Repairs	{ Loan & } Con. Rev. }	" " " 1895	62 15 0 62 18 6 6 11 10 2,661 9 6	************	62 15 0 62 18 6 6 11 10 1,292 15 3	********
Court-house Police Station, &c. GUNNEDAH. Post and Telegraph Office Court-house Lock-up Gaol GLEN INNES. Post and Telegraph Office Lock-up and Police Station	Repairs Addition Alterations Repairs, &c. " Erection Furniture Tanks	Loan & Con. Rev. Loan	19 19 19	62 15 0 62 18 6 6 11 10 2,661 9 6 0 6 6 7 15 0		62 15 0 62 18 6 6 11 10 1,292 15 3	*******
Court-house Police Station, &c. GUNNEDAH. Post and Telegraph Office Court-house Lock-up Gaol GLEN INNES. Post and Telegraph Office Lock-up and Police Station Gaol GRENFELL	Repairs Addition Alterations Repairs, &c. ,, Erection Furniture Tanks Addition	Loan & Con. Rev. Loan Con. Rev. Loan	" " " " 1895 1896	62 15 0 62 18 6 6 11 10 2,661 9 6 0 6 6 7 15 0 10 15 3	***************************************	62 15 0 62 18 6 6 11 10 1,292 15 3	0 6 6
Court-house Police Station, &c. GUNNEDAH. Post and Telegraph Office Court-house Lock-up Gaol GLEN INNES. Post and Telegraph Office Lock-up and Police Station Gaol	Repairs Addition Alterations Repairs, &c. " Erection Furniture Tanks	Loan & Con. Rev. Loan Con. Rev. Loan Loan Loan Loan	" " " " 1895 1896 "	62 15 0 62 18 6 6 11 10 2,661 9 6 0 6 6 7 15 0		62 15 0 62 18 6 6 11 10 1,292 15 3	0 6 6

Work, and where sit	nated.	Whether Con- structing or under Repair.	Fund from which the Expense is defrayed.	When Commenced.	If Finished, actual amount of Expendi- ture.		Amount expended from 1st July, 1896, to 30th June, 1897.	Furniture
COUNTRY—conti	nued.				£ s. d.	£ s. d.	£ s. d.	£ s. d.
Court-house		Erection	{ Loan & }	1896	1,221 14 3		248 14 3	*******
		Furniture	Con. Rev		15 4 1			15 4 1
UYRA.			Committee	23	101 15 0		101 15 0	
Police Station		Additions		23				******
Police Station		Repairs	Con.	**	3 0 0	*******	3 0 0	
Police Station		,, ,	Rev.	>>		58 11 0	58 11 0	
Court-house		99 ***********	Loan	22	8 10 0	********	8 10 0	******
Police Buildings and Lock-	up	Erection	Loan and	11	472 1 8		472 1 8	
RONG GRONG. Police Station		Additions	Con. Rev.	22	23 8 0		23 8 0	
ONGOLGON.			1		11 10 0	*	11 10 0	
ILGUNNIA.		Tank		33		********		20 15
Police Station		Furniture	Con. Rev.	17	39 15 1	********	********	39 15
Post and Telegraph Office Court-house		Repairs, &c Furniture	Ivev.	33	10 0 6 20 19 3		10 0 6	20 19
Police Barracks	************	Repairs	1	32	0 15 9 21 11 10	**********	0 15 9 21 11 10	
Gaol Land and Survey Office		Erection	Loan	1895	2,859 11 3	*********	1,368 17 0	********
Post and Telegraph Office		Repairs	Loan and	1896	62 15 0	********	62 15 0	*******
Post and Telegraph Office		,,	Con. Rev.	3.9	190 16 0		190 16 0	
ILLSTON. Police Station		,,		1895	339 3 0		51 3 0	
			Con. Rev.	1896	1 18 10			1 18 1
Gaol		Furniture	(Con.)	1590	2 16 10	********	2 16 10	1 10 1
owlone. Court-house		Furniture	Rev.	22	11 2 7		**********	11 2
ARDEN.								
Police Station		Repairs	} Loan {	25	********	50 15 3	50 15 3	
Police Buildings		9	5 2000	>>	51 0 0	*******	51 0 0	
Police Station and Quarter	s	,,) Con. 5	33	5 7 10		5 7 10	
Court-house		99	Rev.)	23	9 14 8		4 0 0 9 14 8	
UMULA.				1				
Police Station		Erection	} Loan {	72	329 18 10		329 18 10	******
Post and Telegraph Office		Repairs) ("		75 0 0	75 0 0	******
Police Barracks		,,	(33	20 0 0 3 18 6		20 0 0 3 18 6	
Post and Telegraph Office		Land	} Loan {	33	16 0 0		16 0 0	
ERILDERIE.			(Loan &)		5 5 3		5 5 3	
Lock-up Gaol		Repairs		25	7 6 7	********	5 14 3	1 12
Police Station		Furniture		22	0 2 6	*******	*******	0 2
UNEE. Court-house		Repairs		"	2 10 0		2 10 0	1
Police Station		Erection			1,521 2 5	********	1,521 2 5	31111111
Court-house		Furniture	Con. Rev.	33	2 19 10	*********		2 19
Police Buildings		Erection	Loan	1895	923 0 8	.,,,,,,,,,	355 0 8	*******
Accommodation House		35	Loan and	1896	,,,,,,,,,	1,518 7 9	1,518 7 9	*******
Post and Telegraph		Furniture	Con. Rev.	22	2 8 0			2 8
Post and Telegraph Office			(Con.) Rev.	33	0 5 0		0 5-0	
Police Station		Tank		23	2 19 6		2 19 6	*******
Lock-up		Stove	Loan and		5 2 6	********	5 2 6	
Court-house		Erection				1,255 9 8	1,255 9 8	
ATOOMBA. Court-house		,,	(Loan &)	1895			130 19 5	
		Repairs, &c	Rev.	1896	21 10 3		15 19 6	5 10
Hospital for Insane		Erection		1894 1895	********	86,895 8 4 2,045 2 8	44,986 0 4	2,045 2
11 11 11 11111		29	. Con. 5	1896	18 5 0	********		18 5 54 6
23 33 44.44		39	. f Rev. (37	54 6 4	*********	*********	0± 0
IVERPOOL. Benevolent Asylum		Repairs, &c	. Con. Rev.	. ,,	322 13 0		315 19 2	6 13
Post and Telegraph Office				"	148 12 8		148 12 8	******
ISMORE.		Additions	.) (23	1 0 6	152 0 0		1 0
		Furniture	. Loan and	2,1		2,040 18 0	2,040 18 0	
Police Station		Incidental	Con. Rev	, ,,	0 7 6		0 7 6	*******
Police Station Police Buildings				22	11 17 1 39 10 1	********	39 10 1	11 17
Police Station Police Buildings AMBTON, Police Barracks Court and Watch House.		Furniture						
Police Station Police Buildings AMBTON. Police Barracks Court and Watch House Post and Telegraph Office Police Station		Furniture	("	29 0 0		29 0 0	
Police Station Police Buildings AMBTON, Police Barracks Court and Watch House. Post and Telegraph Office Police Station AWRENCE.		Furniture	Loan		29 0 0	*********	29 0 0 224 12 9	1
Police Station Police Buildings AMBYON. Police Barracks Court and Watch House. Post and Telegraph Office Police Station AWRENCE. Post and Telegraph Office		Furniture	Loan	2)	29 0 0	*********		1
Police Station Police Buildings AMBTON, Police Barracks Court and Watch House. Post and Telegraph Office Police Station AWRENCE. Post and Telegraph Office ITHEOW. Post and Telegraph Office		Furniture	Loan	2)	29 0 0 4 12 9			
Police Station Police Buildings AMBTON, Police Barracks Court and Watch House. Post and Telegraph Office Police Station AMBERICE. Post and Telegraph Office attheow.		Furniture Repairs Fencing Erection Incidental	Loan	1895	29 0 0 4 12 9	*********	224 12 9	48 15
Police Station Police Buildings AMRTON, Police Barracks Court and Watch House. Post and Telegraph Office Police Station AWRENCE. Post and Telegraph Office ORD HOWE ISLAND. Magistrate's Office OCKIVAR.		Furniture Repairs Fencing Erection Incidental Repairs, &c.	Loan	1895 1896	29 0 0 4 12 9 1 0 0		224 12 9	48 15
Police Station Police Buildings AMRTON, Police Barracks Court and Watch House. Post and Telegraph Office Police Station AMRENCE. Post and Telegraph Office ITHEOW. Post and Telegraph Office ORD HOWE ISLAND.		Furniture Repairs Fencing Erection Incidental Repairs, &c.	Con. Rev.	1895	29 0 0 4 12 9 1 0 0 52 2 7		224 12 9 .1 0 0 3 7 3	

Work, and where situated.	Whether Con- structing or under Repair.	Fund from which the Expense is defrayed.	When Commenced.	If Finished, actual amount of Expendi- ture.	If Unfinished, amount of Expenditure to 30th June, 1897.	Amount expended from 1st July, 1896, to 30th June, 1897.	Furniture.
COUNTRY—continued.				£ s. d.	£ s. d.	£ s. d.	£ s. d
MAITLAND EAST, Court-house	Repairs, &c	Loan and	1896	36 0 1	, s. u.	30 14 6	5 5 7
Post and Telegraph Office	,,	Con. Rev.	,,	5 0 0		5 0 0	*******
Police Station	Erection		1895	223 9 11 4,750 18 10		223 9 11 2,942 18 10	*******
MAITLAND WEST.	Furniture	Con. Rev.	1896	11 9 4	********		11 9
Court-house	Erection Furniture	Loan & Con.	1894 1896	12,157 12 2 279 13 1		4,211 9 0	279 13 1
Post and Telegraph Office	Additions	Rev.	1895	89 8 0	*********	19 8 0	219 10
Gaol	Additions	Con.	1896	1,174 2 6 16 16 11	*********	1,174 2 6 10 13 3	6 3 8
Court-house	Alterations	Loan	"	110 0 0	*********	5 0 0 1 11 6	*******
forez. Court-house	Repairs	Con.		20 12 10		20 12 10	
Police Station Post and Telegraph Office	Erection	Rev)	1895	12 3 7	1,589 9 0	12 3 7 847 13 5	*******
23 23	Fencing	Loan	1896		160 0 0	160 0 0	
Gaol"	Repairs	1 6	12	2 7 8 8 0 5	**********	8 0 5	2 7
Lands Office	Repairs, &c	Con. Rev.	12	16 12 - 8	*********	6 9 2	10 3
Court-house Police Station, &c. Post and Telegraph Office	Additions		22	1 18 2 22 10 0		22 10 0	1 18
IILPARINKA.	Repairs		37	5 0 0	*********	5 0 0	
Court-house	Erection	Loan	1895 1896	78 17 8	1,048 0 0	924 0 0	78 17 8
Ioss Vale. Post and Telegraph Office	Kerbing roadway	Con.	33	30 5 6	********	30 5 6	
Court-house	Furniture		1895	0 9 4 46 12 6	*********		0 9 4
URRUMBURRAH.			1000				
Post and Telegraph Office	Addition	Loan and Con. Rev.	1896	1,003 1 0 52 10 0	*********	1,003 1 0 52 10 0	
Lock-up	Erection	Loan	22	388 6 1		215 18 11	
ENINDIE. Post and Telegraph Office	Repairs, &c.	Loan and	,,	279 14 0		279 14 0	*******
Post and Telegraph Office	31	Con. Rev.	1895	57 3 6	* ******	32 3 6	
Court and Watch-house Police Buildings	33 ·······	Rev.	1896	5 0 0 34 3 6		5 0 0 31 3 6	******
IORPZTH. Post and Telegraph Office		Loan		101 19 8		96 0 0	7.10
Court-house	29 ******	Loan and Con, Rev.	33	130 19 6	********	130 19 6	5 19
Police Barracks	n	Loan	"		85 0 0	85 0 0	*******
Court-house	,,	Loan and	3.7	33 3 0		27 13 0	5 10
Police Station	Addition	Con. Rev.	2.7	5 10 7		5 10 7	******
Court-house	Furniture	Con. Rev.	27	6 2 6			6 2
Post and Telegraph Office	Additions) (33		107 0 0	107 0 0	******
Lock-up	Erection	Loan	1895	1,666 11 0	**********	14 10 0	******
Court-house	Additions	Con. Rev.	- 33	685 15 8		571 15 8	
ULLUMBIMBY. Police Station	Furniture	Con. Rev	1896	52 2 7		*******	52 2
ORUYA. Police Station	Erection Furniture	Con. Rev.	37	160 0 0		160 0 0	0.10
OUNT VICTORIA. Post and Telegraph Office	Erection	Loan and	1895	1,603 18 5		1,424 18 5	8 19
	Furniture	Con. Rev.	1896	24 1 9		***********	24 1
ANILLA. Police Station	Repairs	} Loan. {	"	2 10 0	*******	2 10 0	
Court-house	Erection	Loan and	1895	1,324 10 1		70 19 0	*******
Post and Telegraph Office	Furniture Repairs	Con. Rev.	1896	1 12 0 0 5 0	*******	0 5 0	1 12
AUDR. Police Station	Addition		33	7 0 0	*********	7 0 0	
Post and Telegraph Office	Erection	Loan.	1895	1,086 18 7		907 4 5	*******
Lock-up	Repairs	Con. Rev Loan	1896	28 2 0 119 19 0		28 2 0 119 19 0	*******
Court-house	Furniture	Con. Rev	22	18 17 5			18 17
Post and Telegraph Office ATHOURA. Court-house and Lock-up	Drain	Loan	"	8 0 0	*********	8 0 0	90 0 10
OSSGIEL. Police Station	Stove	Con.	"	5 16 1		0 10 6 5 16 1	20 9 10
Court-house	Furniture	Rev.	33	10 5 4	*********	5 16 1	10 5
Police Station	Repairs		1895	********	75 3 0	25 8 0	
Police Station and Lock-up	Additions, &c	Loan and Con. Rev.	1896	43 6 2	*********	43 6 2	*****
Police Buildings	Repairs, &c	Con. Rev.	**	4 13 11	*********	4 13 11	
Police Station	Addition	Con Rev.	>>	62 0 0	*********	62 0 0	******
Court House and Lock-up	Erection	Loan	22	678 19 9	*******	678 19 9	*******

Work, and where stitusted. Structure or marked fellowing						If Unfinished,	Amount	
COUNTRY - confined.	Work, and where situated.	structing or under	Expense is	When	cf Expendi-	Expenditure to 30th June,	1896, to 30th June,	Furniture,
New Age Court-House, doc C						20071	1001.	
Description	NEWCASTLE.				£ s. d.	£ s. d.	£ s. d.	£ s. d.
Post and Telegraph Office	Asylum for Imbeciles	Additions & Repairs Repairs	Loans and					4 2 0
Water-police Barracks	Post and Telegraph Office	Incidental						
Description Countries Co	Water-police Barracks. Custom House	Repairs		22	0 12 6		0 12 6	
Examinate of Contributes Proprieture Contributes Contributes Proprieture Contributes C	Seamen's Quarters	Repairs	Loans	33	0 7 6	1,123 0 0	1,123 0 0 0 7 6	*******
Control Cont	Examiner of Coal-fields	Furniture			1 15 0	******		
Hopelan	Lock-up (Lake Road)	33 *******	Loans and	23	117 9 0	********	117 9 0	
Louis and Loui	Hospital		Con. Rev.					
Court-house			Loans and					
Court-house	Court-house	Popoise) Con. (40 0 7			*******
Court-house Con.	NARRABRI.			23				
Source Exection Free F	Court house	* 11 *********	Con.				84 0 6	******
Nysoks Lock-up Addition Loans 1890 20 10 5 20 10 5 20 10 5	Court-house	Erection) (1895	3,792 19 4		No. of Contract of	
Court-house Repairs, &c. Con. 45 & 8 & 44 17 & 20 & 11	NYNGAN.	Furniture		1896		********		20 10 5
New Parison	Court-house Crown Lands Office	Repairs, &c.	Con.	73	45 8 8	********	44 17 2	0 11 6
Court-bosies	NUNDLE.		Loans and					
Policy Program Process Proce	Court-house		Con. Rev.					
OBANDE, Con.	Police Station	Erection	} Loans. {		482 4 1			
Manual Telegraph Office	ORANGE.) (
Second of Affer Second S	Post and Telegraph Office	Repairs		2.5	6 17 9 23 19 0	********	6 17 9	******
Court Cour	OBERON.	» ·······) (2 10 0	
Fending Fundament Fundam	Oxley,		Loans.					
Court-house Repairs Loans and	L'ENRITH.		Con. Rev.					
Post and Telegraph Office Repairs & Rev.	Court-house	Repairs	Loans and Con. Rev.					
Post and Telegraph Office	Post and Telegraph Office	Repairs, &c	Con. Rev. {		41 12 7 68 19 6		68 4 6	41 12 7 0 15 0
Gaol Parishes Post and Telegraph Office Repairs, &c. Leans and 1895 2,127 0 2 1,287 0 2 2	Post and Telegraph Office	Repairs	Loans	33	0 10 0	*********	0 10 0	*******
Parity P	Gaol		Con.					
Water Supply	Post and Telegraph Office	Repairs, &c) (1005	7 15 0			
PATRESON Court-house and Police Station Repairs Loans			Con. Rev.					
Pilloda	Court-house and Police Station							
POSCARIE Police Station Repairs, &c. Loans and Con. Rev. Police Station Police Station Repairs, &c. Loans and Con. Rev. Police Station Police Police Station Police Station Police Police Station Police Police Station Police Police Station Police	Post and Telegraph Office	Additions) (140 0 0		140 0 0	
PAMBULA Police Station	POONCARIE.							
Pale	Pambula.		Loans					
Paris Frank. Police Office Office Office Office Office Office Office Station Police Station Repairs, &c. Loans and Con. Rev. Police Office Off	Palmer's Island. Police Station		Loans and					
Police Station	Police Office	Incidental		53	0 5 0		0 5 0	
Court-house and Lock-up Con. Rev. So 5 0 So 5 0 Courd-house Con. Rev. So 5 0 Con. Rev. Con. Rev. Repairs	Police Station			33	75 19 8	********	75 19 8	******
Court-house	QUEANBEYAN.	39	Con. Rev	33	50 5 0		50 5 0	
Post and Telegraph Office				23			52 16 0	9 7 7
Court-house	Post and Telegraph Office	Repairs					5 0 0	4 18 0
Post and Telegraph Office	Court-house	Furniture) Mev. (35	14 19 4	*********		14 19 4
Police Station	Post and Telegraph Office		Con.	a same				
ROBERTSON. Additions Rev. & 19 15 0 10 15 0	Police Station	Fencing	Loans	12	18 18 0	*********	18 18 0	
Post and Telegraph Office Erection Loans. 1,007 12 6 122 12 6	Robertson. Court and Watch-house		- Rev. &	-				
Record Post and Telegraph Office Repairs Con.	Post and Telegraph Office	Erection	Loans.	2.7	1,007 12 6	********	122 12 6	
Agricultural College	Post and Telegraph Office	Repairs	Con		55 15 0		55 15 0	
Court and Watch-house	Agricultural College		C source 1	23				
Police Station		Furniture)	22	6 13 6	********	********	6 13 6
Governor's Residence, "Hill View"	Police Station		Leans	23	4 10 0	*******	4 10 0	
	Governor's Residence, "Hill View"		Con. Rev.	22		********		*******
		Furniture						217 17 1

Work and where situated.	Whether Con- structing or under	Fund from which the		If Finished, actual amount	If Unfinished, amount of Expenditure	expended from 1st July,	Furniture.
work and where stedagod.	Repair.	Expense is defrayed.	When Commenced.	of Expendi- ture.	to 30th June, 1897.	1896, to 30th June, 1897.	T dimetre.
COLLYDDY				6 0 4	0 0 0	£ s. d.	£ s. d
COUNTRY—continued.	Dansim for	Torne and	1000	£ s. d.	£ s. d.	10 9 9	
Court-house	Repairs, &c	Con. Rev.	1800	10 9 9			******
Lock-up Gaol	Repairs	Loans and Con. Rev.	33	1,262 18 10 5 10 3	*********	571 18 10 5 10 3	*******
CONE. Court-house	Furniture	Con. Rev.	**	8 16 1			8 16
Police Station	Repairs) T	33		78 0 0	78 0 0	
Lock-up	Additions	Loans	1895 1896	1,198 15 3	150 0 0	1,118 15 3 150 0 0	*******
PRINGWOOD. Lock-up	Repairs) (99	1 7 6	*********	1 7 6	
Court-house	Additions	Con. Rev.	1895	342 18 6		188 15 0	
Post and Telegraph Office	Repairs	Loans	1896	90 12 6	85 0 0	5 0 0 35 0 0	*******
Court-house	,,	Con.	22	2 3 9		2 3 9	
Court-house	,,	f Rev. (33	1 12 6		1 12 6	
TEWART TOWN. Lock-up	35	Loans	>>	66 0 0	********	66 0 0	
TROUD. Police Station	,,) ("	6 9 5	*******	6 9 5	
Post and Telegraph Office	** **********	Con. Rev.	22	41 15 0	********	41 15 0	*******
Police Station Court-house	Additions	Loans and	"	28 1 7 17 16 0		28 1 7 17 16 0	
Post and Telegraph Office	Repairs	Con. Rev.	27	1 15 0	********	1 15 0	******
Gaol	Additions	Rev. ("	4 16 6	853 11 5	4 16 6 853 11 5	
Water Supply ENTERFIELD.	Incidental	Con. Rev	22	1 5 4		1 5 4	
Post and Telegraph Office	Repairs	Liotens	22	160 8 0 50 0 0	**********	160 8 0 50 0 0	
Court-house	3)	Con. Rev	"	40 3 6		40 3 6	*******
Lock-up	Erection	Loans	1895	1,516 15 0	*********	343 15 0	******
Court-house	Furniture	Con. Rev	1896	2 18 6			2 18
Court-house	Erection	Loans (22	*******	13 0 0	13 0 0	
Post and Telegraph Office	Repairs) ("	********	58 17 0	58 17 0	******
Police Station	Additions		25	17 6 9		17 6 9	******
Court-house	Furniture	Con. Rev.	35	0 2 0		********	0 2
Court and Watch-house	Fencing	-	"	57 3 6 12 8 0		57 3 6 12 8 0	
ARCUTTA. Police Station) (27	1 8 6		1 8 6	
Post and Telegraph Office	Repairs	} Loans {	22	84 12 0		84 12 0	
Prison	,,	Con. Rev	>>	52 12 2		52 12 2	******
Police Station	Tank	Loans	22	3 10 0			*******
Lock-up and Court-house	Additions	Loans	25	22 18 6	410 9 2	410 9 2 22 18 6	
Court-house	Additions	Con.	33	13 5 6	********	13 5 6	
Police Station	Repairs	Rev.	22	*******	165 3 9	165 3 9	*******
Post and Telegraph Office	Fencing		1895	61 15 10			******
Gaol	Repairs, &c	(Loans &)	"	120 13 3		120 13 3	*******
Court-house	,,	Con. Rev.	>>	12 18 6		12 18 6	
Gaol	Repairs) ~ (1896	5 11 0		5 11 0	
Post and Telegraph Office	Additions	Con. Rev.	1895 1896	67 0 6 338 14 8		22 0 6 338 14 8 33 1 6	*******
Police Station and Officers' Quarters	Repairs, &c Additions	Loans and	1895 1896	118 1 6 375 12 6	*********	375 12 6	*******
	Repairs, &c	Con. Rev.	>>	9 14 5	*******	6 8 11	3 5
Public Buildings Experimental Farm.	Incidental	Con. Rev.	33	6 0 0 5 3 5 1 14 9	*********	6 0 0 iii 9	5 3 0 3
Lands and Survey Office		Loans and	33	38 1 3	********	38 1 3	
Gaol	Repairs	Con. Rev.	**	30 1 9		- 00 1 0	
Court-house Lock-up	Fencing	Con. Rev Loans and Con. Rev.	"	78 10 0 13 14 3	********	78 10 0 13 14 3	********
Court-house	Repairs, &c	Con.	"	26 11 0		26 11 0 0 2 9	*******
Clerk of Works' Office	"	Loans and	"	0 2 9 15 13 11	********	15 13 11	******
71.00 нам.	Additions	Con. Rev. Loans	1894		1,640 5 3	611 0 0	******
Post and Telegraph Office	Repairs, &c	Con. Rev Loans and Con. Rev.	1896	9 8 1 92 0 0	********	8 10 4 92 0 0	0 17
Post and Telegraph Office	Land	Loans	**	30 0 0		30 0 0	
Post and Telegraph Office	Repairs)	33	5 10 2	********	5 10 2	10.11
Gaol	Repairs, &c Additions, &c	Con. Rev.	33	32 18 3 2,563 5 6	********	1,367 5 6	10 11
			-				
Post and Telegraph Office Court-house	Additions	Loans	1895 1896	232 12 6 3 10 0		122 12 6 3 10 0	*******

Work, and where situated.	Whether Con- structing or under Repair.	Fund from which the Expense is defrayed.	When Commenced.	If Finished, actual amount of Expendi- ture.		Amount expended from 1st July, 1896, to 30th June, 1897.	Furniture
COUNTRY—continued.				£ s. d.	£ s. d.	£ s. d.	£ s. d
ENTWORTH.	War and American		****	7 70 0		7 70 0	
Gaol	Repairs	Con.	1896	1 10 0	******	1 10 0	*******
Post and Telegraph Office	33	f Rev.	22	46 3 0	*********	46 3 0	
Court-house, &c) (3.9	8 10 0	1111111111	8 10 0	
Lock-up	Erection		33		1,308 5 11	1,308 5 11	
Police Station	Repairs	Loans	-53	25 5 0	*********	25 5 0	
ARATAH.		1			93 0 0	93 0 0	
Post and Telegraph Office	Furniture	5 0- (11	4 0 0	93 0 0	93 0 0	4 0
ALCHA.		Con. Rev.					
Court-house	Repairs	,	32	0 15 0	*******	0 15 0	
Court house	Additions	Loans and	32	35 18 6	********	81 4 0	4 14
		Con. Rev.				1 000 10 4	
Post and Telegraph Office	Erection	Loans and	23	550 7 6	1,272 13 4	1,272 13 4 550 7 6	
		Con. Rev.	. **				
YALONG WEST. Police Station	Alterations	1		22 17 6		22 17 6	
ILSON'S DOWNFALL.	ZHIOZHUIOIIO TTTTTT	Con.	22	22 11 0	******	22 11 0	******
Police Station	Repairs	Rev.	22	6 14 2	60 0 0	6 14 2	
Court-house	33 *********	,	. 33	********	60 0 0	60 0 0	*******
Police Station	Repairs	Loans	33	4 1 9	********	4 1 9	0 7
Court-house	Furniture	Con. Rev	23	0 7 3			0 7
Police Station	Repairs	Loans	35	41 9 10		41 9 10	*******
ALLSEND.				707 70 7			
Court-house	33	Con. Rev.	22	125 13 7	********	125 7 0	0 6
Police Buildings	22) Con. (1895	129 2 0		10 0 0	
Police Station	Furniture	Rev.	1896	5 0 0			5 0
Court-house	Erection	Loans	23	*******	597 0 0	597 0 0	*******
TOODSTOCK.	Furniture		35	9 13 5			9 13
Police Station	Temporary cell	Con. Rev.	33	62 0 0	********	62 0 0	*******
OLLOMBI.		Riev.		E 70 0		F 10 0	
Post and Telegraph Office	Additions	15	23	5 10 0 47 12 6		5 10 0 47 12 6	
ALLA WALLA (Gerogery).		Loans.	33				
Police Station	Erection) (22	342 4 3	********	342 4 3	
Police Station	Furniture	Con. Rev	33	0 6 6	********	**********	0 6
ASS.	Donalas	Y		- 0 0			
Post and Telegraph Office	Repairs	Con. Rev	1895	7 0 0 124 0 0		7 0 0	
OUNG.							
Gaol	Additions	Con. Rev	1896	57 19 2	1,619 5 7	1,490 5 7 57 19 2	******
Court-house	Repairs, &c	Con. Rev.	1000	69 12 0	**********	68 12 0	1 0
		and Loans	100				
Post and Telegraph Office			22	2 11 6		2 11 6	
Police Station	Repairs	- Loans	23.	********	85 0 0	85 0 0	******
Police Station	Stove	1	,,	4 5 0		4 5 0	
HSCELLANEOUS.			19				
Ballot-boxes	**************		.99	0 17 0 7,671 8 6	*********	0 17 0 7,671 8 6	
Establishment—Salaries	***********		32	6,890 14 6		6,890 14 6	*******
Travelling Expenses Incidental and unforeseen	************	Con.	33	2,053 5 4 310 2 5	********	2,053 5 4 305 2 11	4 19
Lighting Government Lamps	************	Rev.	33	1,031 17 3	*********	1,031 17 3	4 19
Photographing Public Buildings	*************		>>	344 13 9		344 13 9	81 13
Public Buildings generally Wages and Materials			33	2,106 1 6 3,462 8 0	*********	2,024 8 2 3,352 0 3	81 13
Work done for other Departments		1	25	23,720 3 10	********	23,720 3 10	*******
				919 917 70 4	176 224 10 70	243,292 3 4	6,860 3
				212,917 19 4	176,384 18 10	240,202 0 4	0,000 3

SUMMARY OF EXPENDITURE.	£ s	s.	d.	
Loans	166,183 60,249 23,720	2	10	
otal	£250,152	6	8	

EXPENDITURE, Government Architect's Branch.

	Year.	Loans.	Revenue.	Services for other Departments.	Total.		
		£ s. d.	£ s. d.	£ s. d.	£	s.	d
863	***************************************	************	************	********	95,052	IO	
864			***************************************		81,792	0	
865	***************************************		***************************************	******	51,063		
866	***************************************		***************************************	************	52,118	1	
857	(**************************************	***************************************			73,202	6	
868					85,973	I	
860		111141111111111	****************		96,313	9	
870	(44.44.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.	***************************************	***************************************	**********	65,304		
871	***************************************				67,651	36	
872	474		***********	**********			
873	The state of the s		***************************************	**********	54,329		
874	***************************************	***************		**********		II	
875	***************************************	************	***************************************	*********	148,650	0	
876	*******************************	*************	***********	*********	199,982	6	
	***************************************	***********	*************	nemann	129,803	3	
77	***************************************	************	**********	**********		17	
378	***************************************	**********	**********	**********	208,394	14	
379		**********	*********	*******	457,317	1	
380	in manner and the second	***********	*********		633.274	8	
38 r		************	************		421,896	13	
382	***************************************	***********	***********	**********	355,552	15	
383						18	
384	***************************************			*************	408,436	4	
385					428,881	5	
386						18	
387	***************************************			**********		12	1
388	***************************************	1411111111111	***********	************	99	13	1
389	***************************************		***************************************			16	
90	***************************************		***************************************	******	267,801	6	
gr	***************************************			The second secon	THE STATE OF THE S	-	
92	*********	***************************************	************		334,253	6	
93	***************************************	***************************************		**********	222,147		
	nuary, 1894, to 30th June, 1895	***************************************	03.070 0 0	*******		100	
t Ju	lly, 1895, to 30th June, 1896	113,928 13 8	93,059 2 8	*********		16	
t Ju	ly 1806 to goth Tune 1806	141,672 13 10	65,508 7 3	************	207,181	6	
000	ly, 1896, to 30th June, 1897	166,183 0 0	60,249 2 10	23,720 3 10	250,152	6	
	Totals£	421,784 7 6	218,815 12 9	23,720 3 10	7,675,441	4	

Roads and Bridges.

(XIV.)

Report of the Principal Assistant Engineer for Roads.

30 November, 1897.

I HAVE the honor to present, for the Minister's information, a report upon the work carried out by this branch, during the year ended 30th June, 1897, together with tabulated statements of the expenditure for the year, the lengths of roads and bridges of various classes directly or indirectly under the charge of the branch, and other statistical information.

From these returns it will be seen that the expenditure for the year, on roads and bridges, was £676,209 19s. 2d.* Of this sum £621,948 17s. 3d. was derived from Revenue, and £54,261 1s. 11d. from Loan Funds. Expenditure was, with a view to economy, restricted to the most urgent requirements, and the cost of maintenance reduced to the lowest possible limit, compatible with efficiency. The expenditure on roads, &c., from Revenue only, fell £1,794 7s. 4d. short of the sum made available by Parliament; this amount lapsed. Seeing that authority to proceed with the full expenditure was not given to the local officers until December, and that, consequently, they had only seven months in which to expend the full years yets this result may be considered extisfactory. A sum of £226,249 0s. 11d. expend the full years vote, this result may be considered satisfactory. A sum of £226,249 Os. 11d.

remained unexpended from Loan Votes, and was carried forward.

To give some idea of the work involved in administration at head office, it may be stated that 23,293 papers were registered and dealt with; 17,078 vouchers received and examined; and 3,139 contracts let, amounting to £322,022.

Rents of district offices, ferrymen's quarters, &c., amounted to £1,620, and cost of cleaning to £347. The ferries leased were 45 in number. Forty-three others were subsidised, and nine worked by the Department. The total revenue from all sources under this head was £5,112 6s. 1d., while the cost of

Department. The total revenue from all sources under this head was £5,112 6s. 1d., while the cost of working, &c, was £10,162 3s. 1od.

Since last year's report was made, an entirely new system has been adopted in connection with the collection of tolls upon the ferries worked directly by the Department. Upon these ferries a system is now in force whereby every passenger receives a ticket showing the value of the fare paid, the date of issue, and the progressive number. It forms a check, first upon the collectors, and (as all tickets entitle the holder to return free within two days), upon the passengers as to the time of their return. This system has, so far, proved satisfactory, and it is anticipated that a substantial increase in the collections will result, by preventing passengers returning free after the two days allowed has elapsed.

Summarising the figures given in the tabulated statement attached, it will be seen that there are 39,874 miles of roads under the direct or indirect charge of the Department. Of that length, 27,404 miles are on schedule, 1,099 miles of municipal roads are subsidised by the Department, and 11,371 miles are unclassified. Of the total length, 12,631 miles are bush tracks, practically untouched, leaving 27,243 miles of cleared, formed, or metalled roads.

There are 2,842 bridges in the Colony, having 7,878 spans, with a total length of 267,964 feet, or

There are 2,842 bridges in the Colony, having 7,878 spans, with a total length of 267,964 feet, or 50 miles 60 chains. The culverts number 32,671, and have a total length of 486,907 feet, or 92 miles 17 chains; and there are 15,534 causeways, measuring 377,298 feet, or 71 miles 36½ chains.

There are 97 punts, 1 steam launch, 4 horse-boats, 69 flood-boats, and 120 other boats in use; also 10 punt-slips for execution of repairs. Ferrymen's, bridge caretakers', and other houses and buildings, the preparate of the Deparatement, number 51

the property of the Department, number 51.

During the year, 1,038 miles of new roads were cleared, and 666 miles wholly or partially constructed. Four miles 63½ chains of culverts and 5 miles 77½ chains of causeways were also constructed, and 5,008 rods of fencing erected.

The repairs and renewals of bridges are referred to in the report of the Assistant Engineer for

Bridges appended.

Eight new punts and 9 boats were built during the year, and 60 punts and 56 boats overhauled and repaired.

The average number of men employed was 6,704, of whom 1,504 were employed directly by the

The distance travelled by the district officers and their assistants, overseers, &c., in the execution of their duties, was 507,316 miles, 405,948 miles being by road, and 101,368 miles by rail; the total cost under this head being £6,820 14s. 11d.

With regard to repairs to bridges, the ASSISTANT ENGINEER FOR BRIDGES reports as follows :-

"During the year, continued attention has been paid to repairs, a sum of £29,297 19s. 11d. being expended for that purpose on 410 structures.

"It must be understood that these repairs are independent of renewals, where, owing to decay, it becomes necessary to entirely replace an old bridge. These renewals have been dealt with in my report on bridge construction, but it is not out of place to mention here that 53 bridges were totally renewed

during the year at a cost of £36,850 4s. 7d.

"Occasion was taken in my last year's report to draw attention to the advantages which might be gained by the adoption of permanent substructures of stone, steel, or iron, when practicable, and the Under Secretary and Commissioner for Roads touched upon the matter in his report, pointing out that the great strength and durability of our timbers rendered their use the more economical in a majority of

^{*} This amount includes the expenditure, at 30th June, incurred in respect of new bridges completed and in progress.

cases. This is undoubtedly the case, but I think we should not lose sight of the fact that timber for bridge purposes is every year becoming more costly, while cement and labour, the two chief factors in the price of masonry, are cheaper than heretofore, and steel and iron are obtainable in a greater variety of forms, and at rates in marked contrast to those ruling twenty years ago. Although the better classes of timbers are well distributed upon the coast north from Sydney, there are large areas inland where bridge timber is impossible to be obtained, and to which it must be carried at great cost.

"It is surprising how few masonry piers are to be found in bridges throughout the Colony, situated as some of them are in districts where timber is exceedingly difficult to obtain, while stone is often plentiful; presumedly this is due to timber having been more plentiful formerly, when skilled labour

was more costly.

"In the case of the renewal of the Fish River Bridge at O'Connell, and in the repairs to the Abercrombie bridge, we have had this year, however, the advantage of admirably constructed masonry piers and abutments, which will outlive the superstructures now placed upon them, and doubtless others again, after these are decayed.

"At Berrima, also, masoury piers built thirty-seven years ago are receiving a new superstructure,

and also being raised 8 feet.

"It is, of course, difficult to lay down any definite rule, but I think it may be taken that on an established route likely to remain permanent, and when timber is not available locally, given a good foundation and stone adjacent to the site, an additional expenditure of at least 25 per cent. in the first cost of the bridge would be fully justified, with the object of gaining a permanent substructure.

"The increasing use of truss spans, and the increasing length of those spans, now being built up to 154 feet each, are naturally increasing the demand for ironbark timber of a special class, viz., sawn flitches free of heart, of considerable size and length, and recessarily of the highest quality. These flitches are becoming difficult to obtain outside certain comparatively small areas on the coast, and it may become also, have a bearing upon the question of permanent substructures, as the piers used in connection with them being fewer, require greater strength, while the reduction in their number also reduces the proportion of their cost, as compared with the total cost of the bridge.

"Allusion has been made to the unequal distribution of timber in the Colony, and in that connection I may refer to the system of storing a quantity of timber in Sydney for use for repairs. The advantages claimed for that system in the last report are still evident, and upwards of 408,000 super. feet of timber have passed through the yard at Cockatoo Island during the year. The cost of this timber, though, as already stated, prices have advanced, still compares favourably with that obtaining under the old system,

when timber was procured from the annual contractor as required, a system causing great delay.

"It is natural that out of the sum of £29,297 expended on repairs, a large proportion should have been spent on the decks of bridges, where actual wear reduces the life of the planking more than does decay. It is to be regretted that while we obtain such excellent results in wood-paving by placing the grain of the timber vertical, it has not yet been found feasible to lay the timber decks of bridges otherwise than with the grain horizontal. Doubtless to do so necessitates a double deck, the lower to carry the load, and the upper as a wearing surface only; still ultimate economy may yet be gained in this direction when heavy traffic has to be dealt with.

"Few of the repairs undertaken during the year need to be particularised; perhaps the most important is the repair and raising of the low-level bridge over the Hawkesbury River at Windsor. This is a timber-beam bridge on iron cylinders, having a total length of 403 feet. It was placed at a height of 11 feet above ordinary water level, and was frequently submerged. While repairing the superstructure, which was much decayed, occasion was taken to raise the bridge 8 feet, a course which was decided on after some hesitation, as it was feared that the additional leverage afforded to the flood-waters might cause the destruction of the bridge. The work was, however, accomplished at a cost of £4,409 3s. 3d., and a flood which has since passed over the deck caused no damage.

"The conversion of the Belabula River bridge at Carcoar from a truss to a beam bridge, a work

which was finished early in the year, is of interest as showing an economical method of dealing with a bridge the trusses of which were decayed, while the deck system was owing to previous repairs in good

order.

"At Brewarrina the machinery for lifting the span was removed and replaced by gear similar to that erected last year at Bourke, the result being that one man can easily lift the span, instead of two being required as heretofore. Arrangements have been made to carry out a similar alteration to the gear at Balranald.

"The system of carrying out repairs by means of skilled gangs was continued during the year with success, and on the whole I feel justified in stating that the improvement in the general condition of the

bridges referred to in the last report has been sustained.

"Before closing this report I think it necessary to draw special attention to the operation of the regulation which makes municipalities responsible for the maintenance of the superstructures of bridges within municipal limits. In the case of large structures the Councils do not appear to be in a financial position to keep up the repairs, which are allowed to stand over while the l'epartment is approached for a special grant. Ultimately it often becomes necessary for the Department to carry out the work under conditions much more unfavourable than would have been the case had the bridge been solely under the

With respect to the remarks of the Assistant Engineer for Bridges in the above quoted report: (1.) As to the use, under certain conditions, of stone for the substructure of bridges, I quite. There can be no doubt that under certain circumstances where stone is cheap and timber scarce, and only procurable from distant places, it would be true economy to use the more lasting material at even a considerable increase in first cost. There is room for the exercise of discretion as each case

(2.) As to the increasing use of truss bridges of extreme spans. This tendency is one to be watched, and for several reasons to be restricted: The cost per foot run of bridge is, in ordinary cases, much in excess of the beam or smaller truss span; the ordinary maintenance is more costly; repairs are more costly and difficult in execution; the difficulty of getting the special lengths of first-class timber referred to by Mr. De Burgh is increasing, and will, in the future, more rapidly increase.

Accordingly,

Accordingly, not only does the necessity of obtaining these special pieces for the larger trusses add very materially to their cost at the present day; but, as time goes on, this cost will become still greater, and when the day comes for the renewal of these special pieces in the trusses, the cost of repairs will be immensely greater than they would be to-day. It might almost be predicted that, when that day arrives, it may be found impossible, or almost impossible, to obtain the necessary pieces in quantities sufficient to meet the requirements of the Department. For although the area of the Colony from which the supply of hardwood timber for bridge building and other works appears at the present day to be very large, this area exists on paper only. The localities from which really first-class hardwood of special class or character can be now obtained may almost be counted upon the fingers of one hand, and, when these places have been denuded of this kind of timber, it is difficult to see where it is to be procured from.

In the matter of the hardwood timber supply, it may be remarked, the Colony is burning the candle at both ends; increasing the consumption of the natural supply, and providing nothing in its place by

plantation.

(3.) The life of truss bridges has been proved to be shorter than that of substantially constructed

beam span structures.

(4.) It may also be kept in view that in the event of a comprehensive system of Local Government being adopted throughout the Colony, whereby each locality will be charged with the control of its own works, the maintenance of these bridges will fall to the respective municipal bodies. The result of past experience in this direction does not encourage the hope that this duty will be efficiently performed by these local bodies, where large or intricately constructed works, such as these larger truss bridges, are concerned.

Under all these circumstances the conclusion is, I think, a fair one that, where possible, and all other things being equal, it is desirable as a rule to adopt either beam span or the smaller truss span bridges, the exception being where the foundations are so bad or difficult (for instance, where the piers would be high) as to make piers more costly in proportion than the increased length of span.

PERCY SCARR,
Principal Assistant Engineer, Roads.

(XV.)

RETURN of Expenditure on Public Works carried on by Roads and Bridges Branch, from 1st July, 1896, to 30th June, 1897.

South of the	0, 1007.			and the service of	
Work and where situated.	Whether Constructing or under Repair,	Fund from which the Expense is defrayed.	When Com- menced.	If Unfinished, amount of Expenditure to 30 June, 1897.	Amount expended from 1 July, 1866, to 30 June, 1897.
ROADS AND BRIDGES.				£ s. d.	£ s. d.
Aberdeen, up Narrow Passage and Scrumlow)	(1882	4513 1 10	£ s. d.
Attunga to Somerton		ESTRON 18	1887	924 3 7	60 0 0
Attunga to Hall's Creek			1895	155 9 6	70 16 6
Amosfield to Acacia Creek			1894	2,517 II 10 3,990 0 4	26 12 0 435 11 11
Acacia Creek to Tooloom			1895	455 4 10	35 7 0
Acacia Creek, via Korelah, to White Swamp			1888	2,675 7 3	199 16 6
Alumny Creek, at Leonard's, to Grafton-Broadwater Road Armidale to Long Swamp			1895	91 5 4 794 15 7	76 16 0
Armidale to Mihi Creek			1879	4,514 14 5	102 17 0
Armidale to Grafton, via Hillgrove, to Perrett's	lade unitable	-	1864	90,751 11 6	616 2 9
Armidale and Eastern Plains Road to Trevanna	The second	10000	1884	2,611 3 7	146 15 1
Armidale Road to Taylor's Arm			1894	1,970 5 9	323 5 2
Armidale Road to Wabra Creek			1890	242 10 10	69 6 3
Armidale to Pint Pot			1886	4,112 3 1	162 16 2 119 10 2
Armidale to Eastern Plains			1888	2,750 0 2	183 9 6
Armidale to Gostwyck			1884	2,017 7 4	101 0 8
Armidale to Duval Armidale, via Kelly's Plains, to Bald Knob			1890	455 3 6 261 6 1	44 12 6 84 12 4
Armidale to Castle Doyle			1886	1,130 6 2	48 6 0
Armidale to Timagog			1895	207 13 6	101 9 3
Armidale Road to Upper Five Day Creek			1896	189 14 8 35 3 0	139 19 8 35 3 0
Ashlea, via Marlee, to Upper Dingo Creek			1892	1,250 7 0	236 7 9
Adamstown to Lake Macquarie			1885	5,965 2 9	385 9 6
Arnold's to Appletree Flat			1874	19,324 0 2	594 5 11
Anderson's to Unkyra Road			1895	94 0 0	41 12 0
Alstonville to Pearce's Creek			25	568 8 3	259 12 3
Approach to Ulmarra Ferry			1896	563 13 11 25 8 7	189 18 3 25 8 7
Approach to Brook's Ferry			>>	197 3 6	197 3 6
Approach to Eagleton Punt			>>	49 17 0	49 17 0
Armidale up Mungay Creek Aberglassyn, via Lowry's, to the River		19.3	33	79 17 3	79 17 3
Appin to Brook's Point			33	58 4 10	58 4 10
Appin to Broughton Pass			>>	12 9 0	12 9 0
Araluen and Moruya Road, via Kiora, to Moruya	Maintenance,	Consoli-	22	22 5 6	22 5 6
Araluen, via Bettowynd, to Black Creek		dated	7905	40 0 10	40 0 10
Adelong to Hillas Creek		hevenue.	1895	352 9 0 2,687 13 2	127 6 6 447 II 10
Adaminaby, via Eaglehawk, to Jindabyne			1888	941 4 4	247 2 9
Adaminaby to Dry Plains			1895	119 15 9 28,128 4 2	44 16 0 717 12 1
Albury to Urana Albury and Corowa Road to Urana			1874	21,217 5 0	726 13 10
Albury to Boomanoomana			1864	75,543 6 11	1,113 1 9
Albury to Cookardina Albury to Boomanoomana Road, at 35%-mile in approach to Murray			1892	2,090 6 6	172 12 3
River Bridge			1896	70 0 0	70 0 0
Alick's Creek to Bloom Hill			1892	174 16 9	45 3 I
Alick's Swamp Creek Embankment Awaba to Freeman's Waterholes			1895	101 15 9 528 2 3	99 5 I 285 4 2
Armidale and Kangaroo Hills Road to Donald Public School		14 18	1896	23 18 0	23 18 0
Armidale and Kangaroo Hills Road to Pint Pot, Chandler River Armidale Road, up Nul'a Nulla Creek		1	- 22	23 19 0	23 19 0
Ashford, via Severn River, to Duncan, Marome Creek			33	- 29 8 0	29 8 0
Aberfoyle River, Wire Rope Crossing			23	9 13 5	9 13 5
Amaroo Railway Station to Keenan's Bridge			33	25 0 0	25 0 0
Abbott's Road, Seven Hills			23	30 0 0	30 0 0
Byangum up Middle Arm			1891	459 12 11 250 17 1	144 14 1
Byangum to Dunbible Creek	The state of		1888	1,306 7 10	
Burringbar to Upper Burringbar		- 1	1894	266 4 3	79 18 0
Burringbar to Cudgera Bexhill to Woodlawn			1895	410 2 10 278 1 7	357 14 0 28 9 9
Bexhill to Monticollum			1884	7,589 4 2	
Bexhill to Monticollum Road to Roads Clunes to Staggs			1896	42 15 11 602 1 6	
Bexhill to Numulgi School and Cross Selections			1890	603 1 6	1 1
Ballina, via North Creek, to Byron Bay			1887	4,055 5 8	314 1 1
Beechwood to Bolland's Plains			1885	1,549 15 9 289 2 1	
Boggy Creek to Cottee's Blakebrook to Dunoon			1890	593 3 9	10
Blakebrook to Petersen's			1894	479 3 9	194 14 0
Blakebrook to Foxground			1896	331 9 5	
Bogaldie towards Pilliga Brush Grove, via Bluff Point, to Maclean			1887	2,353 10 7	
Brush Grove, via Tyndale, to Maclean		1 2 3	1890	1,354 16 5	
Barney Downs to Millera			1883	3,278 10 4	151 4 6
- 100 mg	-		-		-

Work and where situated.	Whether Constructing or under Repair.	Fund from which the Expense is defrayed.	When Com- menced.	If Unfinished, amount of Expenditure to 30 June, 1897.	Amount Expended from I July, 1896, to 30 June, 1897.
ROADS AND BRIDGES—continued. Bingers to Top Bingers Bingers to Warishiles Bingers to Warishiles Bingers to Warishiles Bingers to Born Barnaba to Born Born Barnaba to Born Born Born Born Born Born Born Born	Maintenance, repair, and construction.	Consolidated Revenue.	1895 1896 1884 1895 1896 1895 1896 1895 1896 1895 1896 1896 1895 1896 1896 1895 1896	\$ d. 94 0 0 44 18 0 9,937 13 11 50 0 0 5,740 11 9 8,407 11 4 1,214 12 5 2,249 9 10 60 0 0 2,852 2 5 874 11 3 79 0 0 0 205 8 1 261 13 7 802 15 7 1,517 18 3 135 0 0 260 0 0 1,171 5 5 71 0 11 8,151 3 1 688 5 6 1,968 18 5 125 17 9 927 6 3 5,245 10 11 1,111 2 0 481 4 11 9,862 15 1 3,023 15 4 4,841 8 10 11,090 19 2 5,227 9 6 8,54 5 0 2,676 9 10 2,58 12 9 305 16 6 118 9 6 1,841 8 10 11,090 19 2 5,227 9 6 8,54 5 0 2,676 9 10 2,58 12 9 305 16 6 118 9 6 118	£ s. d. 4 2 0 44 18 0 79 12 3 38 1 0 291 13 9 1,068 13 8 99 19 6 10 439 8 0 10 0 0 183 14 8 597 1 9 12 2 1 107 0 0 0 136 12 10 11 5 7 99 3 0 122 2 1 107 0 0 0 166 18 3 19 12 0 166 18 3 19 12 0 166 18 3 19 12 0 166 18 3 19 12 0 166 18 3 19 12 0 166 18 3 19 12 0 166 18 3 19 12 0 166 18 3 19 12 0 166 18 3 19 12 0 166 18 3 19 12 0 166 18 3 19 12 0 166 18 3 19 12 0 166 18 3 19 12 0 166 18 3 19 12 0 166 18 3 19 12 0 167 0 0 152 16 6 230 11 4 153 9 11 107 3 1 466 8 2 1,774 14 10 707 2 6 314 8 0 297 12 10 100 9 0 100 12 3 305 16 6 67 0 0 100 12 3 305 16 6 67 0 0 100 12 3 305 16 6 67 0 0 100 12 3 305 16 6 67 0 0 100 17 5 100 0 0 100 18 0 100 19 0 100 19 0 100 19 0 100 19 0 100 19 0 100 10 0 100

Work, and where situated.	Whether Constructing or under Repair.	Fund from which the Expense is defrayed.	When Com- menced.	If Unfinished, amount of Expenditure to 30 June, 1897.	Amount Expended from 1 July, 1896, to 30 June, 1897.
ROADS AND BRIDGES—continued. Burrowa to Breakfast Creek Burrowa to Kenya Burrowa to Kenya Burrowa to Kenya Burrowa to Kenya Burrowa to Cunningrah. Burrowa, Narrawa Road, near Rugby, via Gardens to Burrowa Bredbo Station to Nimbo Braidwood to Animbo Braidwood to Elirington Braidwood to Queenbeyan Braidwood to Queenbeyan Braidwood to Sergeant's Point Braidwood to Sergeant's Point Braidwood to Sergeant's Point Braidwood via Reidsdale, to Bell's Creek Braidwood, via Bell's Creek, to Araluen Braidwood to Neligen (Clyde Road) Bega, via Wapengui and Murrah, to Bermagui Bega, via Jellat Jellat, to Tathra Bega, via Wapengui and Murrah, to Bermagui Bega, to Brainderry Bega to Nimitybelle, at Bembooka, to Sam's Corner Bombala to Delegate Road, at Saucy Creek, to Cambalong Bombala to Delegate Road, at Saucy Creek, to Cambalong Bombala to Nimitybelle, at Bembooka, to Sam's Corner Bombala to Suckley's Springs Bombala to Nimitybelle, and Mila, to Cragie Bombala to Simitybelle, and Mila, to Cragie Bombala to Simitybelle, and Mila, to Cragie Bombala to Simitybelle, Bombala Common Bombala, via Buckalong and Gunningrath, to Bobundarah Bombala, via Mahratta and Mila, to Cragie Bombala to Merimbula Bombala to Buckley's Springs Bombala to Simitybelle, Bombala Common Bombala, via Waharata and Mila, to Cragie Bombala to Hila Merimbula	Maintenance, repair, and construction.	dated {	1892 1885 1896 1893 1872 1890 1893 1872 1890 1891 1873 1895 1896 1895 1896 1889 1889 1889 1889 1889 1889 1889 1889 1889 1896 1889 1896 1889 1896 1889 1896 1896 1896 1896 1896 1896 1896 1896 1896 1896 1896 1896 1897 1896 1898 1898 1899	## 8. d. 972 13 7 1,469 19 6 2,196 3 11 1,555 7 9 117 7 10 20,952 19 0 1,393 12 10 5,494 17 3 2,988 8 11 3,223 0 2 20,697 5 2 30 3,221 9 6 1,703 7 7 1,019 0 1 8,687 18 8 12,487 19 0 96 9 0 343 17 7 53 8 0 879 3 8 0 13,730 12 11 26 4 2 2,420 5 6 721 6 1 274 2 9 6,355 19 3 94,890 19 7 40 10 0 36 12 5 19 14 9 3,915 10 8 1,187 11 7 333 14 11 286 17 4 2,657 12 11 403 9 11 2,864 13 8 1,144 7 4 2,287 6 7 3,838 18 9 1,918 1 11 100 0 0 6,445 13 1 2,438 10 1 1,112 3 7 510 5 6 67 9 4 849 17 1 1,112 3 7 510 5 6 67 9 4 8 9 10 0 1,12 10 10 10 10 10 10 10 10 10 10 10 10 10	## 8. d. 165 11 6 9 83 8 6 249 3 7 1262 0 2 279 12 4 208 4 9 212 12 12 199 19 5 145 16 6 108 9 2 497 11 8 1,044 7 0 392 14 0 110 15 10 269 17 3 480 0 0 101 6 0 223 14 3 32 0 0 588 6 3 122 0 0 636 7 2 26 4 2 163 4 2 163 4 2 163 7 2 26 4 2 163 7 9 1,159 1 11 1,523 10 1 24 16 0 13 2 0 19 14 9 192 16 11 18 4 0 70 3 14 20 19 14 21 11 22 11 24 16 3 10 14 3 10 16 3 11 11 1,523 10 1 24 16 17 13 0 18 3 6 11 18 4 0 70 3 13 5 172 6 0 173 16 8 364 4 4 200 10 0 170 0 0 534 7 6 229 4 5 0 71 16 8 364 4 4 200 10 0 17 10 0 183 6 11 140 3 7 243 12 0 17 13 0 183 6 11 140 3 7 243 12 0 17 13 0 183 6 11 140 3 7 243 12 0 17 13 0 183 6 11 140 3 7 243 12 0 17 13 0 183 6 11 140 3 7 243 12 0 17 13 0 18 16 0 17 13 0 18 16 0 17 13 0 18 3 6 11 140 3 7 241 12 0 17 13 0 18 3 6 11 140 3 7 241 12 0 17 13 0 18 3 6 11 140 3 7 241 12 0 17 13 0 18 3 6 11 140 3 7 241 12 0 17 13 0 18 3 6 11 140 3 7 241 12 0 17 13 0 18 3 6 11 140 3 7 241 12 0 17 13 0 18 3 6 11 140 3 7 241 12 0 17 13 0 18 3 6 11 147 14 7 103 19 9 118 15 0 209 10 6 3 2,013 11 19 1,065 18 9 19 13 9 29 18 9 20 17 8 3 20 17 8 0 141 19 9

Work, and where situated.	Whether Constructing or under Repair.	Fund from which the Expense is defrayed.	When Com- menced.	If Unfinished, amount of Expenditure to 30 June, 1897.	Amount expended from 1 July, 1896, to 30 June, 1897.
ROADS AND BRIDGES—continued. Blayney to Rockley Ball Ridge to Isabella River Bennach to Frown's Creck Bull Ridge to Isabella River Bennach towards Marengo Borre to Manidra Bourke to Hungerford Bourke to Wilcannia Crossing, near Woodlands Bogan Gate to Dandaloo Broken Hill to Cobham Broken Hill to Cobham Broken Balk to Condobal Broken Hill to Cobham Broken Balk to Condobal Broken Hill Brogan Tank to Condobal Broken Balk to Broken Balk to Condobal Broken Balk to Balk to Condobal Broken Balk to Balk to Condobal Broken Balk to Balk	Maintenance, repair, and construction.	dated }	1895 1896 1895 1896 1895 1896 1895 1896 1895 1896 1895 1896 1895 1896 1895 1896 1895 1896 1895 1896 1895 1896 1895 1896 1895 1896 1895 1896 1895 1896 1895 1896 1895 1896	£ s. d. 887 5 8 276 1 9 251 17 3 957 4 7 179 4 0 3,878 2 4 7,503 15 4 7,503 15 4 2,673 5 10 1,097 16 6 661 11 7 704 18 10 3,140 15 5 2,678 1 0 201 3 4 5 0 0 15 0 0 79 15 7 47 47 17 1 32 10 0 19 19 7 89 1 0 72 11 2 138 4 10 56 12 10 321 9 5 224 16 0 34 5 3 76 19 10 321 9 5 224 16 0 34 7 55 9 1 102 10 8 162 19 0 39 8 6 167 0 0 61 14 7 55 0 0 27 10 0 66 14 18 67 19 10 67 19 10 68 10 27 10 0 68 10 0 27 0 0 68 10 0 27 10 0 69 10 0 10 10 10 10 10 11 10 0 11 11 10 0 16 11 10 0 16 11 10 0 16 11 10 0 16 11 10 0 16 11 10 0 16 11 10 0 16 11 10 0 16 11 10 0 16 11 10 0 16 11 10 0 16 11 10 0 16 11 10 0 16 11 10 0 16 11 10 0 16 17 0 0 16 17 0 0 16 17 0 0 16 17 10 0 17 10 0 18 1	£ s. d. 374 14 7 276 1 9 42 0 0 97 7 2 90 0 0 215 5 3 787 2 11 1 8 0 1 92 4 0 104 5 120 14 5 141 11 0 305 14 16 50 13 4 50 0 0 15 0 0 0 15 0 0 4 4 4 4 14 14 16 32 10 0 31 19 7 89 11 0 72 11 38 4 10 321 9 5 224 16 0 321 9 5 224 16 0 321 9 5 224 16 0 321 9 5 224 16 0 321 9 5 224 16 0 321 9 5 224 16 0 321 9 5 224 16 0 321 9 5 224 16 0 321 9 5 224 16 0 321 9 5 224 16 0 321 9 5 224 16 0 321 9 5 224 16 0 321 9 5 224 16 0 321 9 5 224 16 0 321 9 5 224 16 0 321 9 5 224 16 0 321 9 5 224 16 0 321 9 5 234 4 0 63 0 0 27 0 0 65 7 8 9 5 0 75 14 0 77 18 8 170 16 10 27 18 8 170 17 10 0 161 11 10 14 18 0 51 7 9 23 8 170 15 5 28 7 0 71 15 0 161 11 10 14 18 0 51 7 9 51 0 0 25 10 9 23 8 18 4 0 53 7 0 75 14 0 77 15 0 26 16 6 5 90 16 10 27 5 6 14 17 10 0 161 11 10 14 18 0 51 7 9 52 4 5 30 0 5 17 10 0 161 11 10 14 18 0 51 7 9 52 4 5 30 0 5 17 10 0 161 11 10 14 18 0 51 7 9 52 4 5 30 0 5 17 10 0 161 11 10 14 18 0 51 7 7 55 9 26 18 7 57 14 7 57 15 5

TUBICAL OF HATEMBIICAE O	N TOBLIC W	JAKS-COM	unueu.		
Work, and where situated.	Whether Constructing or under Repair.	Fund from which the Expense is defrayed.	When Commenced.	If Unfinished, amount of Expenditure to 30 June, 1897.	Amount expended from 1 July, 1896, to 30 June, 1897.
ROADS AND BRIDGES—continued. Claine to Biona Borra Casine to Mount Lindsay Read at Reynold's Casine to Coraki Casine to Coraki Casine to Ellange wan Casine to North Codrington Read to Tomki Public School. Casine to North Codrington Casine to Myall Creek Coraki to Breadwater Coraki to Breadwater Coraki to Tuckurimbal Coraki to Tuckurimbal Read at N.E. corner of portion 26 to River Bank.			1887 1896 1876 1886 1890 ,,, 1892 1873 1889 1888 1892 1896	£ s. d. 7,078 5 11 36 1 0 16,120 19 11 6,373 0 3 2,071 15 7 268 6 8 2,442 4 10 28,131 5 11 1,447 18 8 2,155 0 5 530 3 4 12 5 10	£ s. d. 232 17 5 36 1 0 851 8 4 611 14 10 157 7 0 147 6 3 470 3 11 1,068 12 4 161 11 7 293 4 0 103 0 6 12 5 10
Coraki to Swan Bay Coraki to Swan Bay Coraki to Swan Bay Conaki vyrallah Road to North Codrington Wharf Chatsworth to Woodburn Calabash Ridge to Calabash Bay Copmanhurst, via Morrison's, to Smith's Creek Carramana to Seeland's Carramana to Seeland's Carramana to Seeland's Coolatai to Wallangra Cobbedah to Roeky Creek Cregan's, via Roschill, to Rocky River Collarendabri to Narrabri Collarendabri to Angeldool Coonamble to Tundabrine Creek Collarendabri to Angeldool Coonamble to Combogolong Coonamble to Combogolong Coonamble to Warren Coonamble to Warren Coonamble to Warren Coonamble to Warren Congarini, up Taylor's Arm Congarini to Rolland's Plains Coast Road to Rolland's Plains Coast Road to Rolland's Plains Coast Road to Perrett's Coast Road to Perrett's Coast Road to Perrett's Coast Road to Willivan's Coopernook, via Cattati Creek, to Harrington Cedar Party Road to Taree and Wingham Road Cedar Party Road to Taree and Wingham Road Cedar Party Road to Dimond's Cedar Party Road to Dimond's Cedar Party Road to Morill Creek Cesanock, via Mount View, to Millfield Cesance Tarty Road to Morill Creek Cessnock to Allandals Station Cessnock to Allandalong Cooranbong to Mandalong Cooranbong and Humphries' C.P. to top of Watagan Mountain Charlestown to Limeburner's Creek Clarencetown to Limeburner's Creek Clarencetown to Limeburner's Creek Clarencetown to Thalaba Coonabarrabran to Blaek Stump Coonabarrabran to Hondora Coonabarrabran to Timor Rock Coonabarrabran to Topic Rock Coonabarrabran to Topic Rock Coonabarrabran to Topic Rock Coonabarrabran to Dueck Coonabarrabran to Dueck Coonabarrabran to Hondora Conabarrabran to Dueck Coonabarrabran to Plaeks Coeff to Persenal Hills Coolah to Cassilis Cooper's Elat Road, up	Maintenance, repair, and construction.	dated -	1892 1893 1896 1890 1896 1890 1896 1896 1896 1897 1884 1892 1895 1894 1895 1894 1895 1894 1895 1894 1895 1896 1897 1896 1897 1896 1897 1896 1897 1896 1897 1898 1896 1897 1896 1897 1896 1897 1896 1897 1896 1897 1898 1896 1897 1898 1899 1899 1895 1896 1897 1896 1897 1896 1897 1896 1897 1898 1899	1.312 17 8 403 12 6 59 19 3 5.552 19 1 110 0 0 225 7 0 225 16 11 546 10 5 9,257 13 1 653 6 7 710 0 4 644 6 6 976 3 11 275 8 1 1,207 5 5 2,821 4 1 3'4 9 0 2,050 7 1 123 0 9 4,787 14 4 5,938 5 9 29 3 0 303 12 7 1,542 12 10 4,105 15 3 419 0 4 1,988 14 10 897 4 5 376 2 4 226 19 6 939 9 5 30 6 1 1,864 11 7 432 14 1 2,311 14 1 124 12 6 864 14 4 1,103 16 5 885 14 10 2,311 14 11 124 12 6 864 14 4 1,103 16 5 885 18 2 2,066 14 11 135 11 2 180 0 0 21,379 7 8 3,966 9 9 163 9 9 2,437 15 9 95 0 0 6,961 12 11 5,782 0 0 6,961 12 10 86 18 2 139 14 2 150 0 0 727 12 0 1,179 2 10 86 18 2 139 14 2 150 0 0 727 12 0 1,179 2 10 86 18 2 139 14 2 150 0 0 727 1 0 1,179 2 10 86 18 2 139 14 2 150 0 0 727 1 0 1,179 2 10 86 18 2 139 14 2 139 14 2 150 12 0 150 0 0 7573 14 0 1,179 2 10 86 18 2 139 14 2 150 12 0 150 10 0 7573 14 0 1,179 2 10 86 18 2 139 14 2 150 12 0 150 10 0 7573 14 0 1,179 2 10 86 18 2 139 14 2 139 14 2 150 12 0 150 10 0 7573 14 0 1,179 2 10 86 18 2 139 14 2 150 10 0 7573 14 0 1,179 2 10 86 18 2 139 14 7 7 553 18 10 128 18 11 334 17 7 553 18 10 128 18 11 334 17 7 553 13 10 10	118 11 9 77 15 0 59 19 3 1,132 11 5 15 0 0 26 7 0 0 43 8 6 75 10 9 810 15 8 22 10 0 179 7 0 42 16 2 164 11 0 187 1 0 216 6 7 499 19 3 74 12 8 548 17 6 29 19 11 1,256 8 9 67 7 5 3 5 1,013 7 0 6 118 2 7 97 14 9 91 17 6 118 2 7 97 14 6 118 2 7 97 14 12 80 0 0 246 9 11 124 12 0 81 1 1 129 1 1 128 3 10 318 0 7 71 11 1 252 1 0 360 14 1 100 1 7 124 12 0 88 1 10 318 0 7 71 11 1 252 1 0 360 14 1 100 1 7 124 12 0 88 1 10 318 0 7 71 11 1 252 1 0 318 0 0 0 327 12 0 80 0 0 327 12 0 80 0 0 327 12 0 80 0 0 327 12 0 80 0 0 327 12 0 80 0 0 327 12 0 80 0 0 327 12 0 80 0 0 327 12 0 80 0 0 327 12 0 80 0 0 52 9 11 150 0 0 0 52 9 11 150 0 0 0 52 9 11 150 0 0 0 52 9 11 150 0 0 0 52 9 11 150 0 0 0 52 9 11 150 0 0 0 52 9 11 150 0 0 0 52 9 11 150 0 0 0 52 9 11 150 0 0 0 52 9 11 150 12 0

Work, and where situated.	Whether Constructing or under Repair.	Fund from which the Expense is defrayed.	When Com- menced.	If Unfinished, amount of Expenditure to 30 June, 1897.	Amount expended from I July, 1896, to 30 June, 1897.
Cudgegong to Wollar, near 13-mile Post to Munghorn Range Cudgegong to Piambong Cudgegong to Reedy Creek Cudgegong to Merendee Cudgegong to Hill End Cudgegong to Rylstone Cudgegong Village to Rylstone Cudgegong to Home Rule Cudgegong to Denison Town Camboon, via Pyangle to Dungaree Cowra to North Logan Cowra to Koorawatha Cowra, via Darby's Falls to Hovell's Creek Cowra, via Binni Creek, to Walli Cowra, via Goolagong, to Forbes Cowra to Ereskfast Creek Capertee to Glen Alice Cargo to Canowindra Canowindra to Eugowra Canowindra to Eugowra Canowindra to Goolagong Cunnock to Balderogery Cunnock to Eurimbula Cullenbone to Cobborah Cummin's to Four-faile Creek Cobar to Wilcannia Cobar to Hilston Cobar to Balarabon Curra Creek to Balderogery Curra Creek to Arthurville Cudal to Barrigan Hall Centennial Park Roads Comleroy to Sackville Ferry Cox's to Rydal Road Catholic Chapel, Baulkham Hills, to Seven Hills Road Catllen Bullen to Carson's Siding Castle Hill to Windsor Road Cattai Creek, at Clarke's, to Fisher's Cattai Creek Railway Station to the Coast Converting Cylinders into Rollers	Maintenance, repair, and construction.	dated	1896 1895 1873 1886 1873 1886 1883 1896 1890 1875 1888 1886 1878 1886 1882 1883 1876 1890 1895 1889 1895 1889 1895 1889 1895 1895	£ s. d. 58 9 9 134 10 8 2,215 10 0 107 7 6 27,729 4 9 4,597 12 9 3,463 0 9 1,692 3 10 5,719 14 9 38 18 2 322 12 3 6,851 15 7 2,969 13 1 2,373 2 3 5,359 13 1 5,314 3 1 2,918 2 3 149 9 2 3,483 2 11 3,247 3 4 6,431 9 9 827 3 8 1,524 10 5 28 12 0 9,770 8 8 100 0 0 9,49 19 6 2,075 18 4 2,458 4 10 403 7 6 3,153 15 3 115 0 0 9,993 6 3 3,137 17 9 249 10 9 62,876 17 7 271 2 9 269 5 6 31 12 2 139 17 6 45 0 11 34 0 0 88 19 0	£ s. d. 58 9 9 59 10 8 363 6 7 107 7 6 430 14 6 315 14 4 215 10 3 76 18 0 1,176 9 8 38 18 2 71 9 7 59 9 0 206 11 0 142 19 2 553 17 8 635 6 6 302 1 4 149 9 2 229 14 4 159 18 11 196 13 9 94 12 11 120 3 1 28 12 0 1,094 1 10 100 0 0 404 8 4 70 11 0 289 19 8 120 0 0 123 11 0 115 0 0 115 0 0 115 1 0 115 0 0 115 1
Cueumbark School to Kramback Road, via Champion Creek to the Cemetery. Corinda towards the Barwon Cameron's Falls Ford, Wauchope to Beechwood Coolongolook, near Worth's, to Curreki Gold Fields Chinbible to Davidson's Cooranbong, along west boundary of Cooper's land Crossing over Deep Creek, at Lasscock's Coff's Harbour, Coramba, main Road to upper Bucca Creek Gold Fields Camboon to Pyangle Condobolin to Wyalong Condobolin to Euabalong Cowpasture to Water Channel Camboon to Rylstone Deviation Cross Roads on South boundary of Bega Municipality Coodradigbee to Nottingham Carwoola to the Tinderils Collector to Tirannia Road to Run of Water to Windellama Road Calabash Public School to Young, Burrowa Road Cobar Road, from Fagan's Road to Government Reserve Calabash Road, from Fagan's Road to Government Reserve Calabash Hill to Calabash Bay Cattai Creek at Glenerie towards Wigginton's Dungowan, via Port Stevens Spur to Swamp Oak Dungowan Creek, south bank of river, to Cadell's Station Dungog to Thalaba Dutton's to Marone Creek Deepwater to Torrington Drinan's Gate to Gresford Darkwater Bridge up left bank Belmore River Darkwater Bridge up right bank Belmore River Darkwater Bridge up right bank Belmore River Darkwater Bridge up right bank Belmore River Darkwater Bridge up Forsterton Dungog to Weismantles Dungog to Torsterton Dungog to Torsterton Dungog to Underbank Danger's Creek, via Glendon Post Office to Drinan's Gate Dunmore to Clarencetown. Dunmore to Paterson Bridge			"" "" "" "" "" "" "" "" "" "" "" "" ""	16 0 0 0 98 8 4 84 0 0 29 10 0 32 11 0 8 23 16 6 28 6 2 7 0 16 8 23 14 0 74 18 3 16 11 0 0 0 0 25 0 0 0 130 9 0 35 16 0 9 7 0 0 15 0 0 0 0	16 0 0 98 8 4 84 0 0 29 10 0 32 11 0 8 23 16 6 2 7 0 16 8 23 14 0 74 18 3 16 11 0 10 8 9 10 0 0 25 0 0 130 9 0 35 16 0 9 7 0 0 15 0 0 0 2;6 11 9 30 0 0 0 15 0 0 0 2;6 11 348 18 3 6 75 12 6 151 15 4 402 7 7 128 1 8 437 17 8 75 0 0 359 14 7 134 3 8 152 0 1

Work, and where situated.	Whether Constructing or under Repair.	Fund from which the Expense is defrayed.	When Com- menced.	If Unfinished, amount of Expenditure to 30 June, 1897.	Amount expended from I July, 1896, to 30 June, 1897.
ROADS AND BRIDGES—continued. Dummore to Pillaway Dummore to Pillaway Dummore and Scaham Road, via Butterwick's, to Dunn's Creek Dumaresq Island Roads Durn, via Colly Blue, to Bomera. Deep Creek to Busby's Flat. Dern's up Mullumbimby Creek Doran's up Mullumbimby Creek Doran's up Mullumbimby Creek Doran's to Reisley's Deegan's to Irving's Delegan's to Irving's Denliquin to Boomanooman's Denliquin to Boomanooman's Denliquin to Boomanooman's Denliquin to Boomanooman's Oreek Dougha's Tark to 13-mile peg on Mount Keora Road Dunghoy Hil to Bungendore. Denliquin to Boomanooman's Dunghoy Hil to Bungendore. Denliquin to Delbo to Gligand's Road at Brocklehurst to Burrawang Dubbo to Feel Han's Dubbo of Delgand's Road at Medway to Collie Dubbo of Gligand's Road at Medway to Collie Dubbo of Gligand's Road at Brocklehurst to Gonoo Dam. Dubbo of Delgand's Road at Brocklehurst to Gonoo Dam. Dubbo of Delgand's Road at Brocklehurst to Gonoo Dam. Dubbo of Delgand's Road at Brocklehurst to Gonoo Dam. Dubbo of Delgand's Road at Brocklehurst to Gonoo Dam. Dubbo of Delgand's Road at Brocklehurst to Gonoo Dam. Dubbo of Delgand's Road at Brocklehurst to Gonoo Dam. Dubbo of Delgand's Road at Brocklehurst to Gonoo Dam. Dubbo of Delgand's Road at Brocklehurst to Gonoo Dam. Dubbo of Delgand's Road at Brocklehurst to Gonoo Dam. Dubbo of Delgand's R	Maintenance, repair, and construction.	dated 4	1896 "891 1894 1890 1895 "895 "896 1895 1896 1895 1896 1895 1896 1896 1896 1896 1896 1896 1896 1896	## s. d. 15 0 0 40 0 0 483 2 5 2,083 14 0 1,446 10 11 33 6 1 382 12 9 399 5 7 42 16 0 40 7 0 504 5 11 481 15 3 4 466 16 2 993 17 3 23 15 0 23 15 0 21,751 4 10 524 18 1 1,519 2 8 1,787 11 9 1,131 8 0 1,131 8 7 525 4 0 178 10 8 42 9 2 26 16 18 412 1 8 6,607 14 5 4,067 16 5 27 6 0 800 14 2 10 0 0 6,814 5 10 150 10 6 175 10 6 175 10 6 175 10 6 175 10 6 175 10 6 175 10 6 175 10 6 175 10 6 175 10 6 175 10 6 175 10 6 175 10 6 175 10 6 175 10 6 175 10 6 175 10 6 175 10 6 175 10 6 175 10 7 3,378 2 2 117 12 6 401 6 5 189 17 8 400 0 50 0 0 21,131 19 8 215 18 10 30 10 0 1,133 10 0 1,133 10 0 1,133 10 0 1,133 10 0 1,133 10 0 1,133 10 0 1,133 10 0 1,133 10 0 1,133 10 0 1,133 10 0 1,133 10 0 1,133 10 0 1,13 10 0	£ s. d. 15 0 0 40 0 0 59 18 10 757 18 10 189 13 7 22 17 4 134 9 7 106 14 7 42 16 0 4 14 0 304 3 0 78 7 10 288 7 10 392 6 10 392 19 0 1,210 3 5 51 17 8 40 0 50 10 0 1,210 3 5 51 17 8 40 0 20 0 1,210 3 5 51 17 8 40 0 20 0 20 0 25 7 6 8 27 2 11 30 10 0 47 18 0 7 14 1 80 0 50 0 25 7 6 8 27 2 11 30 10 0 47 18 0 50 0 25 7 6 8 27 2 11 30 10 0 47 18 0 50 0 25 7 6 8 27 2 11 30 10 0 47 18 0 50 0 25 7 6 8 27 2 11 30 10 0 47 18 0 50 0 30 5 51 17 8 8 10 0 30 10 0 40 11 10 10 10 10 10 10 10 10 10 10 10 10

KETURN OF EXPENDITURE ON	T CDITIO III	Julio con	00200000		
Work, and where situated.	Whether Constructing or under Repair.	Fund from which the Expense is defrayed.	When Com- menced.	If Unfinished, amount of Expenditure to 30 June, 1897.	Amount expended from 1 July, 1896, to 30 June, 1897.
ROADS AND BRIDGES—continued. Right-mile to Puddle Dock Rismore to Kangaroo Camp. Restorn Road, Turrumura Bastern Road, Gordon to Lans Cove to Cowan Creek at Bobbin Head Becleston to Upper Aleyh River Road, Gordon to Lans Cove to Cowan Creek at Bobbin Head Becleston to Upper Aleyh River Road Road to Reiby's Grant Rabbankment in approach to Yanko Cieck Bridge Robankment in approach to Tocumwal Bridge For's to McCormack's Fidden's Warf Road Fernmount to Tysons Plyer's Creek to Dyneys Riyer's Creek to Forest Reefs Poot of Burrogorang Mountain up the Wollondilly River Fitzory Falls, via Belmore Falls, to Rossgall Road Foxlow, via Carwoola, to Seven-mile post. Fountaindale Estate Road on Four-mile Tree to Charton Forbes to Gunningbland Junction Forbes to Gunningbland Junction Forbes to Gondodolin Forbes to Gondodolin Forbes to Gondodolin Forbes to Gondodolin Forbes to Grenfell Forbes, via Parkes and Allectown, to Peak Hill Forbes, via Parkes and Allectown, to Peak Hill Forbes, via Parkes Deviation Favel's to Byng French's Forest to Pittwater Road, Greendale and D.Y. Fleek's to the Quarry Fall's Creek to Jervis Bay Forster's Gate to Well's Creek Forster's Gate to Well's Creek Forster's Gate to Well's Creek Fleaming's Hill to Grono's Farm Flagg's Road into Merrival Foots to Humary Frenchins Forest to Pittwater Road, Greendale and D.Y. Fleek's to the Quarry Frenchins Forest to Pittwater Road, Greendale and D.Y. Fleek's to the Quarry Frenchins Forest to Jervis Bay Forster's Gate to Well's Creek Fleaming's Hill to Grono's Farm Flagg's Road into Merrival Flagg's Road into Merrival Forest Hill towards Gunly Gunly Frogmore to Reed's Fiat, via Short's and Downs' Selections Granuale to Wallond House Grafton, via Southgate to Broadwater Road, to Gears Grafton, via Gen Innes, to Inverell Grafton, via Southgate to Broadwater Hoad, to Gears Grafton, via Southgate to Broadwater Hoad, to Gears Grafton, via Southgate to Broadwater Hoad, to G		dated {	1895 1896 1896 1896 1893 1894 1891 1894 1895 1896 1895 1896 1895 1896 1895 1896 1895 1896 1895 1896 1895 1896 1895 1896 1895 1896 1896 1895 1896 1896 1895 1896	£ s. d. 73 66 208 17 6 6 208 17 6 6 208 17 6 6 208 17 6 6 205 18 4 6 216 9 1 233 14 6 54 0 0 102 2 5 0 249 12 9 3333 0 0 284 4 3 0 164 4 8 8 3927 7 8 30 15 0 8921 8 0 18,335 16 1 1,597 1 7 30 15 0 0 8921 4 0 12,492 12 9 11,804 15 11 314 19 4 0 12,492 12 9 11,804 15 11 314 19 4 0 12,492 12 9 11,804 15 11 314 17 8 22 2 0 8 2 10 18 9 0 8 2 10 18 10 12 2 12 4 0 1,713 10 1 1,245 7 7 2 8 2 10 18 9 18 2 2 5 6 8 6 2 7 19 7 2 9 11 2 2 6 6 6 2 7 19 7 2 9 11 2 2 6 7 19 7 2 9 11 2 2 7 7 8 2 1 2 1 3 1 2 7 7 7 3 8 1 1 7 3 7 7 3 8 1 1 7 3 7 7 3 8 1 1 7 3 7 7 3 8 1 1 7 3 7 7 3 8 1 1 7 3 7 7 3 8 1 1 7 3 7 7 3 8 1 1 1 7 3 7 7 3 8 1 1 1 7 3 7 7 3 8 1 1 1 7 3 7 7 3 8 1 1 1 7 3 7 7 3 8 1 1 1 7 3 7 7 7 3 8 1 1 1 7 3 7 8 8 1 1 7 3 7 7 7 3 8 1 1 1 7 3 7 7 8 3 8 1 1 7 3 7 7 7 3 8 1 1 1 7 3 7 7 8 3 8 1 1 7 3 7 7 7 3 8 1 1 1 7 3 7 7 8 3 8 1 1 7 4 9 5 7 7 7 8 3 8 1 1 7 4 9 5 7 7 7 8 8 1 1 7 7 7 7 8 8 1 1 7 9 7 7 5 8 7 7 1 1 8 1 1 7 9 7 7 5 8 7 1 1 8 1 1 7 9 7 7 5 8 7 1 1 8 1 1 7 9 7 7 7 8 8 1 1 1 1 7 9 7 7 7 8 8 1 1 1 1 7 9 7 7 7 8 8 1 1 1 1 7 9 9 9 9 9 2 1 1 1 1 1 7 9 9 9 9 2 9 9 9 9 2 9 9 9 9 2 9 9 9 9 2 9 9 9 9	£ s. d. 0 124 3 10 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Work, and where situated.	Whether Constructing or under Repair.	Fund from which the Expense is defrayed.	When Com- menced.	If Unfinished, amount of Expenditure to 30 June, 1897.	Amount expended from 1 July, 1896, to 30 June, 1897.
ROADS AND BRIDGES—continued, Goorangoola Road to Carrow Brook Goorangoola Road to Bowman's Creek Road, at Ritter's, &c., to Goorangoola Road to Bowman's Creek Road, at Ritter's, &c., to Goorangoola Road to Bowman's Creek Goondiwindi towards Moree Gresford to Lostock Gresford to Lostock Gresford and Eccleston Gresford to Lostock Gresford to Lostock Gosford to Cooranbong Gosford to Cooranbong Gosford to Wadens Brush Gosford to Madens Brush Gosford and Cooranbong Road to Swansea Gosford and Cooranbong Gosford and Terrigal, Haven Road to Davis Town Gosford and Terrigal, Haven Road to Davis Town Gosford and Cooranbong Road, via Jilliby and Mandale and Cooranbong Road Gosford to Wallabadah Gosford and Blood Tree Road to Narara Station Gosford and Gooranbong Road via Gosford and Gooranbong Road Goren Ridge to Knight's Farm Goulburn to Cooma Goulburn to Pomeroy Goulburn to Roslyn Goulburn to Bungonia Goulburn to Windellima Goulburn to Windellima Goulburn to Windellima Goulburn to Goundaroe Gunning to Gundaroe Gunning to Gundaroe Gunning to Gundaroe Gunning to Gundaroe Gunning and Dalton Road to Burrowa Gunning to Burrowa Gunning to Burgona Gundagai to Bungondore Galong, via Kalangan, towards Marengo Galong to Burrowa Gundagai to Bongongolong Gundagai to Wantabadgery Gilmore Oreak to Reilley's Crossing Glenroy to Mundaroo Germafell to Goolagong Gerogery, via Jindera, to Bungowannah Glenquarry to Yarrunga Gerogery to Howlong Gerogery to Bogal to Wentworth Falls Reserve Gladston to Dural Galston to P	Rosis Selection Ingog bb's Road) Ils ong, to Gosford Maintenance repair, and construction	dated 3	1895 1895 1896 1895 1895 1895 1895 1895 1895 1896 1895 1896 1895 1896 1896 1896 1896 1896 1896 1896 1896 1896 1896 1896 1896 1896 1896 1896 1896 1896 1896 1897 1896	## 8. d. 278 15 7 112 10 0 100 0 0 0 280 0 0 50 0 6 3965 13 8 186 3 11 704 14 9 36 7 15 0 96 18 9 928 16 3 180 3 19 6 405 9 6 1123 19 6 405 9 6 129,860 16 10 5399 3 3 8,712 11 10 1,755 11 3 755 0 0 0 1,525 11 3 755 11 3 755 11 3 755 11 3 755 11 3 755 11 3 755 11 3 755 11 3 755 11 3 755 11 3 755 11 3 755 11 3 755 11 3 755 10 0 1,525 11 3 3,106 11 1,73 16 6 19 0 10 1,473 16 5 2,0 10 10 1,473 16 10 1,473 16 10 1,473 16 10 1,473 16 10 1,473 16 10 1	£ 8. dd 54 14 0 0 80 80 80 80 73 80 80 80 73 80 80 80 73 80 80 80 864 90 80 864 90 80 864 17 11 36 16 16 329 17 16 329 17 16 329 17 16 329 17 16 329 17 16 329 17 16 329 17 16 329 19 10 44 9 5 2 211 0 0 0 324 0 0 0 325 10 0 0 326 0 0 0 326 0 0 0 327 10 0 0 328 10 0 0 329 10 0 0 320 10 0 320

Work, and where situated.	Whether Constructing or under Repairs.	Fund from which the Expense is defrayed.	When com- menced.	If Unfinished, amount of Expenditure to 30 June, 1897.	Amount expended from 1 July, 1896, to 30 June, 1897.
Glendon Milk Factory to Lower Mitchell's Flat Ginkin to Edith Great West Road to Silver Water Wharf Grabine to Woolbrook Glenbrook Station to Msin West Road Glenbrook Station to Msin West Road Glendon Milk Factory Station to Msin West Road Grogan, vie Dinga Dingi, to Stockinbingal Gibb's to Coggin's (Old Pegar Road) Glen Murray Road Gallop's Creek to Bowning and Yass Green's Gunyah towards Bond's Glimore Road, from Fagan's R-ad, to Munroe's Glimore Road, from Fagan's R-ad, to Munroe's Glenhaven Road, from Great North Road, towards Kellyville Galston to Middle Daval Galston, Fagan's Road, to Thomas' Selections Howlong to Toeumwal Howlong to Goombargona Hay to Boulingan Hay to Jenolah Hay to Wanganella Holt's Flat to Tantawanglo Harley to Jenolah Hall Bond to Duramana Halfway House, via Abattoirs, to "White Bay Hotel" Hornsby to Galston Head of Popran Creek to Wharf, Hawkesbury River Hill Day to Main South Road Haydouton Railway Station to Dwer's Hewit's Hill to Petersen's Hobby's Yards to Long Swamp Henty to Pleasant Hills Hairfield Road, from Calabash Ridge, to Armitage Harwood to Chataworth Harwood, via Serpentine, to Chataworth Harwood, via Serpentine, to Chataworth Harwood, via Waspenshine, to Chataworth Harwood, via Waspenshine, to Chataworth Harwood, via Waspenshine, to Chataworth Harwood will be Waspenshine, to Chataworth Harwood will be Waspenshine, to Chataworth Harwood to to Guntawan Herkhan to Waspenshine, to Chataworth Harwood to Guntawan Harwood to Guntawa	Maintenance repairs, and construction.	dated	1896 "" "" "1895 1896 1892 1896 1892 1896 1883 18796 1885 1893 1896 "" "" "1883 1896 "" "" "1883 1896 "" "" "1883 1896 "" "" "1883 1896 "" "" "" "" "" "" "" "" "" "" "" "" ""	## 8 d. ## 12 0 ## 12 0 ## 12 0 ## 13 10 0 ## 13 10 0 ## 13 10 0 ## 13 10 0 ## 14 10 0 ## 15 15 0 ## 15 0 0 ##	£ s. d 49 12 12 14 8 6 14 8 6 15 10 10 10 25 15 15 10 25 17 12 25 15 15 10 20 0 0 0 25 17 10 20 0 0 0 25 17 10 20 0 0 0 25 17 10 20 0 0 20 0 0 0 20 0 0 20 0 0

Work, and where situated.	Whether Constructing or under Repair.	Fund from which the Expense is defrayed.	When Com- nenced.	If Unfinished, amount of Expenditure to 30 June, 1897.	Amount expended from I July, 1896, to 30 June, 1897.
ROADS AND BRIDGES—continue Jerilderie to Coreen Jindera to Walla Walla Jindabyne to Wost Blowering. Jerry's Plains to Doyle's Greek Junction, Barnett and Little Manning Rivers, to No Jacob's Hill Deviation Kynumboon to Nobby's Creek Kelly's, n's Sharpe's, to Moonee Kempsey to foot of Jeogla Mountain Kineumber to Little Beach Krambach to Kew (North Coast Road). Krambach to Tuncurry. Koree Island Roads Kayuga, via Baxter's, to Aberdeen Kew, Rolland's Plains Road, to C.dar Creek Kew to Rolland's Plains Road, or C.dar Creek Kew Rolland's Plains Road, and Junction to Woodton Kippielaw Valley, via Brogher's Creek, to Kangaroo Valley, via Brogher's Creek, to Kangaroo Kangaroo Flat Road, at Junction to Woodton Kippielaw via Parkesbourne, to Bredalbane Kity's Creek to Dog Trap Ford Kiandra Read to Yarrangobilly Caves Kialla Post Office to Middle Creek Kialla to Pejar Kanoona to Candelo Kameruka to Bembooka Kirkconnell to Sunny Corner Kelso and Palmer's Oakey, to River Turon Kelso to O'Connell Kelso to White Rock Koslo to Kelloshiel Kolso to Honkey Hill Kolloshiel to Gowan Kayuga Road to Castle Rock Kangaloon to Waratah Factory Kenthurst Post Office to Porter's Katoomba to the Caves Kolman's Gate to Kirkton Keera Crossing Konrowatha towards Grenfell Knight's Road from Bevan's Road Kenthurst, via Cusbert's, to Annan Grove Lismore to Blue Knob (Nimbin Road) Lismore to Blue Knob (Nimbin Road) Lismore to Reisley Lismore to Reisley Lismore to Reisley Lismore to Blue Knob (Nimbin Road) Lismore to Canderlestown Lambton to Charlestown Lambton to Hill to Newell's Crossing Locket Plain to Road (Creek Luverneet of Salley Station Lismore to Blue Knob (Nimbin Road) Lismore to Blue Knob (Nimbin Road) Lismore to Hill to Newell's Crossing Locket of Carter of Candon Haven Lambton to Charlestown Langban to Solder Creek Lucyer Solder of	on's Creek Wharf Mountain Maintenance, repair, and construction.	Consolidated	1895 1888 1895 1896 1895 1896 1894 1893 1895 1890 1894 1895 1896 1895 1896 1895 1896 1895 1896 1895 1896 1895 1896 1895 1896 1895 1896 1895 1896 1895 1896 1895 1896 1895 1896 1895 1896 1895 1896 1895 1896 1895 1896 1896 1895 1896 1896 1896 1896 1896 1896 1896 1896		

2400 000 000 000 000 000 000	Whether	Fund		If Unfinished,	Amount
Work, and where situated.	Whether Constructing or under Repair.	from which the Expense is defrayed.	When Com- menced.	amount of Expenditure to 30 June, 1897.	expended from I July, 1896, to 30 June, 1897.
ROADS AND BRIDGES—continued. Little Forest to Canyonleigh Loftus Junction to Heathcote Lithgow Municipality to Middle Hartley Lidsdale to Wolgan Little Hartley to Wolgan Little Hartley to Hartley Lowther to Gumbenang Lyndhurst, via Abercrombic, to Bigga Lecholme to Tarana and O'Connell Lucknow to Huntley Little Hartley to Lowther Lucknow to Huntley Little Hartley to Lowther Lucknow to Worboy's Junction Lane Cove to Cowan Creek, at Bobbin Head Lane Cove Road, Tarramurra, to Bobbin Head Lane Cove Road to Gordon Estate (Peat's Road) La Perouse to Little Bay (Sanatorium Road) Largano to Como. Loop Road, Glen Dural, to Brownlow Hill Luckie's, wiz Pee Dee, to Main Arundal Road Lived Lake's and to Cedar Creek Murwillumbah to Blue Knob Murwillumbah to Blue Knob Murwillumbah to Guagen Wharf Murwillumbah to Queenland Border Murwillumbah to Bown's Farm Murwillumbah to Bown's Farm Murwillumbah, via Risleys, to Possum Shoot Murwillumbah to Bown's Farm Murwillumbah, via Tambulgum, to Terranora		Consolidated Revenue.	1894 1896 1893 1885 1896 1879 1872 1895 1896 1896 1894 1896 1896 1896 1896 1896 1896 1896 1897 1894 1895 1896 1896 1897 1894 1895 1896 1896 1897 1894 1895 1896 1897 1896 1897 1896 1896 1897 1896 1897 1896 1896 1897 1896 1896 1897 1896 1897 1896 1897 1896 1896 1896 1896 1896 1896 1896 1896 1896 1896 1897 1896 1896 1896 1896 1896 1896 1896 1896 1896 1896 1896 1896 1896 1896 1897 1896 1896 1896 1896 1896 1897 1896 1896 1896 1896 1896 1896 1896 1896 1896 1896 1897 1896 1897 1896 1896 1896 1896 1896 1896 1896 1896 1896 1896 1897 1896	£ s. d. 2,155 13 8 52 10 9 2 480 8 9 9 3,250 4 1 10 4,045 4 3 210 2 2 7 198 9 7 4,69 10 8 1,166 10 5 25 0 0 0 42 0 0 6 1,096 17 7 158 10 9 40 10 15 10 10 21 10 10 10 21 10 10 10 21 1	£ s. d. 890 8 0 0 2 10 0 9 2 146 9 9 0 7 3 15 5 5 10 0 181 19 0 7 3 15 5 10 0 121 13 469 10 0 6 121 13 469 10 0 6 121 13 469 10 0 121 13 13 16 10 0 121 13 15 16 11 11 11 11 11 11 11 11 11 11 11 11

				If Unfinished,	Amount
Work, and where situated.	Whether Constructing or	from which the Expense	When Com-	amount of Expenditure to	expended from 1 July, 1896,
	under Repair.	is defrayed.	menced.	30 June, 1897.	to 30 June, 1897.
				0 1	0 - 3
ROADS AND BRIDGES—continued. Main South Coast Road, Jamberoo to Albion Park, Deviation at	7	1		£ s. d.	£ s. d.
Turpentine Hill			1896	560 13 6	560 13 6
Main South Coast Road, Jamberoo to Albion Park, Deviation at		i smil		169 15 0	169 15 0
Gray's Hill			1895	115 14 11	77 13 11
Main South Road to Cobbity			1896	69 18 6	69 18 6
Main South Road to Bullio			1896	15 0 0	15 0 0
Main South Road to Picton Lakes			1894	268 19 1 22 13 0	168 7 0
Main South Coast Road at Bateman's Bay to Runnymede			1879	132,106 19 5	7,388 2 5
Main South Coast Road, near Campbelltown, to Wedderburn			1896	148 10 6	148 10 6
Mittagong to Argyle Road Mittagong to Glenquarry			1896	118 6 0	118 6 0
Moss Vale towards Jamberoo			1890	6,276 4 1	597 15 2 113 0 0
Moss Vale towards Kiama, Jamberoo Mountain Road Moss Vale to Meryla			"	337 1 8	.337 I 8
Moss Vale to Barrengarry			1890	7,783 2 10	634 2 4
Moss Vale, Barrengarry Road to Red Hill Moss Vale, via Berrima, to Mandemar	A CONTRACTOR		1890	1,901 13 7	387 4 4
Menangle to Stoney Creek			1892	459 2 I 32,913 18 II	63 10 3
Mount Wayo, via Tuena, to The Abercrombie		- 9 11-6	1892	2,545 12 5	311 4 2
Mulwalla to Savernake			1895	230 16 0 108 0 0	42 19 0 198 0 0
Mulwala to Berrigan, at Tanner's Lane		100000	1090	14 18 0	14 18 0
Marulan, via Long Reach, to Bannaby and Taralga			1892	2,562 1 1 364 I I	360 18 10 56 8 7
Murrumburrah, via Currawang, to Kingsvale Monga to Major's Creek, Elrington		13 1	1871	6,681 3 0	87 10 10
Major's Creek to Snowball			1880	5,550 14 1 841 18 11	324 15 1 26 17 11
Mogo to Tomakin			1896	84 7 0	84 7 0
Mortlock's to Cowra Reefs			1874	81 19 0 3,028 17 1	81 19 0
Merimbula to Jellat Jellat			1865	32,432 6 5	528 6 4
Mathoura to Bunaloo			1888	1,657 15 3	43 0 0
Moruya to Womban Road	HERETON !		1892	1,092 10 1	79 19 0
Moruya to Broulee			1896	70 17 0	70 17 0 337 17 4
Moama to Moulamein Moama to Thyra			1892	814 0 5	214 19 0
Murrumbateman to Gininderra	Maintenance	Consoli-	1893	656 8 8	230 10 2 36 9 6
Mittagang to Billyrumbuck	repairs, and	dated 3	1895	219 3 9	40 0 0
Main South Road to Burrowa	construction.	nevenue.	22	506 14 4	229 15 9 40 19 0
Main West Road to Lapstone Range			15	111 6 6	40 11 8
Main West Road to Cross Roads, Cabramatta			1893	505 5 10 34 14 7	77 12 11 34 14 7
Main West Road at Fox under Hill to Seven Hill's Road			1895	90 0 0	50 0 0
Main West Road to Blacktown Road			1896	75 0 0	75 0 0
Main West Road, Diamond Swamp to Road Meadow Flat, to Tarana		E T	37	40 19 5	3t 4 I
Maia West Road, K-stoomba			1896	139 5 10 2,524 12 4	64 1 0
Mutton's Falls to O'Connell			1890	611 9 1	126 6 6 186 18 0
Marangaroo to Meadow Flat			1891	1,540 0 1	320 3 7
Mitchell's Creek to Palmer's Oakey			1879	4,261 3 8 8,651 13 0	8 15 0
Millthorpe to Cadia			1890	1,461 10 10	140 9 5
Millthorpe, via Guyong, to Byng			1882	3.140 13 5	151 11 10
Menkey Hill to Hill End			1896	69 4 3	69 4 3
Mandurama to Burnt Yards			1889	786 13 3 16,436 10 5	72 0 0 182 4 3
Mandurama to Canowindra			1895	437 18 11	199 9 10
Mount McDonald to Grabine			1889	1,038 13 4 2,228 5 0	39 19 0 53 - 2 3
Matthew's to Brown's Creek Matthew's to Forest Reefs		i	1896	82 16 3	82 16 3
Mullion Railway Station to Belgravia			1891	434 2 II 658 18 3	48 7 0
Molong to Norah Creek		100	1896	74 8 0	74 8 0
Molong, via Boree and Big Flat, to Cargo			1889	1,700 16 4 3,855 3 0	129 15 0 157 19 2
Molong to Warne Station		1	1896	46 0 0	46 0 0
Murphy's Hut to Cudal			1880	112 10 0	93 5 0
Mumbil Railway Station to Burrendong Mullion to Long Peint			1896	73 19 0	73 19 0
Moorilda to Neville	The Common to		1893	1,674 9 10 3,339 13 6	548 0 0
McGrath's Hill to Marcota			1896	100 0 0	100 0 0
Main West Road to Rooty Hill Station		TO E	1895	90 18 0 37 0 8	28 0 8
Molong to Manildra			23	484 9 1	198 4 6
Manildra to Toogong			33	155 16 3	79 6 0

Work, and where situated.	Whether Constructing or under Repair.	Fund from which the Expense is defrayed.	When Com- menced.	If Unfinished, amount of Expenditure to 30 June, 1897.	Amount expended from I July, 1896, to 30 June, 1897.
Moronglo Creek towards Burrowa Milson's Point, vie Lane Cove Road, to Peat's Ferry Manly, vie Jithwater, to Barrenjoey Military Road, St. Leonards. Military Road, St. Leonards. Military Road, Bondi (Land Compension) Military Road, Randwick Mayfield Road Mount Mooby Road to Dartbrook Bridge Mount Victoria to Mount York Reserve Mangleson's Cutting Martinsville Public School to Wikinson's C.P. Mona Vale Hill Cuttings Maldoling to Rooney's Farm Malirony to Ellalong Mandalong to Rooney's Farm Main North Road at Branston to Railway Station Millor's Forest Drainage Mrlead's towards Comboyva Reserve Meadowbank Railway Station Approach Moonbi to Mulla Creek Mayland Creek across the Border, via Cullenbone. Maryland Creek across the Border, via Cullenbone. Manin Beeckwood Rord, up left bank Moreton's Creek Muscle Creek Road to Goorangoola, Bowman's Creek Road Moonbi, via New England Gully, to Tanworth Water Works Main West Road, 4 mile west of Ponto, to Geurie Mureumbiglerie to Dubbo Main West Road, Glebe to Ashfield Mudgee, viz Wilbertree, to Home Rule Maadow Flat to Sunny Corner Mines March to Belgravia Merrendee to Yamble Bridge Mewburn to Rye Park Mimosa to Temora, between Bagdad Church and Wallace's Main West Road to Blacktown Road (Church Road) Mont Druitt to Rooty Hill Station, north side Northern Road—Main Newtybar to Bangalow Narrabri to Eulah and Bullawa Creeks Narrabri to Bogabri, via Terriaro Narrabri to Bogabri, via Terriaro Narrabri to Hiliga North Arm to Beach North Arm Road, at McKay's, up Buckra, Bendine Creek, to Smith's Selections North Arm Road, at McKay's, up Buckra, Bendine Creek, to Smith's Selections North Arm to Beach Nowa to Yalwal Nowa to Yalwal Nowa to Graban and Platsburg, to Minmi. Newaste, via Hamilton and Platsburg, to Minmi. Newaste, via Hamilton and Platsburg, to Minmi. Newaste to Budgeng Narlae to Luddenham Narrandera to Half Graban and Fregmore, to Goulburn Road Neiligen to Bateman's Bay Nowa to Yalwal Narrandera to Half Graban Narrandera to Half Graban Narrandera to Half Graban Narrand		Consolidated Revenue.	1895 1896 1896 1896 1896 1896 1896 1896 1897 1897 1857 1898 1896 1897 1898 1896 1888 1896 1888 1896 1888 1896 1888 1896 1888 1896 1896 1888 1896 1896 1896 1897 1896	£ s. d. 595 0 3 53,885 0 4 16,687 12 0 10,132 6 2 377 9 11 49 0 0 107 3 5 9 11 0 37 14 0 15 1 5 78 2 6 70 3 4 25 0 0 67 19 0 67 10 0 118 9 3 773 7 3 30 0 0 0 39 18 0 78 11 4 20 0 0 112 15 0 65 16 8 254 12 0 44 24 1 10 0 14 0 46 11 0 8 1 6 144 14 14 29 11 100 14 0 46 11 0 8 1 6 144 14 14 29 10 1 100 14 0 46 11 0 8 1 6 144 14 14 29 17 1 100 14 0 46 11 0 8 1 1 10 0 0 10 0 0 629,480 9 4 94 4 29,11 1 100 14 0 46 11 0 8 1 1 10 0 0 10 0 0 629,480 9 4 94 1 94 1 94 1 95 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 1	£ 8. d. 273 16 1 1,915 12 7 706 5 8 361 7 3 377 9 11 225 0 0 0 55 14 1 9 11 0 37 14 0 57 19 0 67 19 0 67 19 0 67 19 0 67 10 0 118 9 3 773 7 3 30 0 0 0 122 15 0 0 65 16 8 254 12 0 44 2 4 29 11 1 100 14 0 46 11 0 8 1 6 144 14 0 10 0 0 5,934 3 7 386 9 8 2 139 1 0 393 13 2 489 18 10 5,934 3 7 386 9 8 10 10 0 0 5,934 3 7 386 9 8 10 10 0 0 5,934 3 7 386 9 8 10 10 0 0 5,934 3 7 386 9 8 10 10 0 0 5,934 3 7 386 9 8 10 10 0 0 5,934 3 7 386 9 8 10 10 0 0 5,934 3 7 386 9 8 10 0 0 0 10 0 0 0 5,934 3 7 386 9 8 10 0 0 0 10 0 0 0 5,934 3 7 386 9 8 10 0 0 0 10 0 0 0 5,934 3 7 386 9 8 10 0 0 0 10 0 0 0 5,934 3 7 386 9 8 10 0 0 0 10 0 0 0 5,934 3 7 386 9 8 10 0 0 0 10 0 0 0 5,934 3 7 386 9 8 10 0 0 0 10 0 0 10 0 0 0 10 0 0 0 10 0 0 0 10 0 0 0 10 0 0 0 10 0 0 0 10 0 0 0 10 0 0 0 10 0 0 0 10 0 0 0 10 0 0 0 10 0 0 0 10 0 0 10 0 0 0 10 0 0 0 10 0 0 0 10 0 0 0 10 0 0 0 10 0 0 0 10 0 0 0 10 0 0 0 10 0 0 0 10 0 0 0 10 0 0 0 10 0 0 0 10 0 0 10 0 0 0 10 0 0 0 10 0 0 0 10 0 0 0 10 0 0 0 10 0 0 0 10 0 0 0 10 0 0 0 10 0 0 0 10 0 0 0 10 0 0 0 10 0 0 0 10

New England Road to Horman Gold Finds	Work, and where situated.	Whether Constructing or under Repair,	Fund from which the Expense is defrayed.	When Com- menced.	If Unfinished, Amount of Expenditure to 30 June, 1897.	Amount expended from 1 July, 1896, to 30 June, 1897.
Neglent o Bour Hull Nyngan to Bwildshadah Ny	ROADS AND BRIDGES-continued.				e a d	e a d
North West Corner of M Donald's to Allanalach, Cesmech Road	Nelson to Rous Hill	1	1	1896		
Nyman to Budshababa North Herry Jury 10 Colomon						
North Berry Jerry to Cooleanon	Nyngan to Buddabadah					
Numby, rie Taylor's Flats and Branch Creek, to Jucction, with Dirrova and Narrawa Rosol, mear Johnson's Dirrova and Narrawa Rosol, mear Johnson's College Listed Rosel (1988) 150 (1988) 15	North Berry Jerry to Coolemon				48 17 3	48 17 3
Berrows and Nariawa Road, near Johnson's	Numby, via Taylor's Flats and Branch Creek, to Junction, with	in sales		35	125 19 0	125 19 0
Octey Lishad Roads Octey Lishad Roads Octey Warf, up Left Bank Kinchela Creek Start Lishad Roads Octey Warf, up Left Bank Kinchela Creek Start Lishad Roads Octey Warf, up Left Bank Kinchela Creek Start Lishad Roads Octey Coll Bar Road to Reduant Ferry Old Condong Road Old Bar Road to Reduant Ferry Old Condong Road Old Sworth Road to St. Albans Start Lishad Start Lishad Start Lishad Start Lishad Outs Lishad Outs Lishad Old Sworth Road to St. Albans Old Barra Road to Michelego Old Barra Road to Coper's Octeoring to the Care Road Old Sanctin Road to Coper's Octeoring to the Care Road Old Warne Old Warne Road to Coper's Octeoring to the Care Road Old Warne Road to Coper's Octeoring to Care Road Old Warne Road to Coper's Octeoring to Care Road to Care Road Old Warne Road Old Warne Road to Care Road to Care Road Old Warne Road to Care Road to Care Road Old Warne Road to Care Road to Care Road Old Warne Road to Care Road to Care Road to Care Road Old Warne Road Old Warne Road Old Warne Road Old Warne Road to Care Road Old Warne Road Old W			11	22	62 0 9	62 0 9
Old Into 16 Bornal Road Owers's Warri, yn Leif, Bank Kinchelas Creek 1889 777 of 271 (2) (1) (2) (1) (2) (1) (2) (1) (2) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2				200		
Seed Wash Typ Left Bank Amelene Creek	Old Inn to Booral Road			San Control		
Old Bar Road to Reduce 1856 246 77 76 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Owen's Wharf, up Left Bank Kinchela Creek		For M	The Court of the C	771 0 6	27 11 6
Old Condoning Road Old North Road to St. Albans. 1895 246 7 9 77 6 or	Old Bar Road to Redbank Ferry					
Ourninds to Outsituaway. Outsimbal to Quitminds Creek Oakse's Coxia River Oakse's Coxia Ri	Old Condong Road			20.00	246 7 9	
Ourimlah up Ourimlah Creek				200		
Oakes to Cox's River 1803 1,682 1 2 73 8 x Cold Birars Road to Michelago 1,682 1 2 73 8 x Cold Birars Road to Michelago 1,882 1,583 1,682 1 2 73 8 x Cold Birars Road 1806 25 0 0 0 25 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Ourimbah up Ourimtah Creek					
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Old Marrilans to Oallen Ford Oberon to Caree Koad Oberon to Jerochan Oberon to Swachfield O'Comnell to Beaconsfield O'Comnell to Beaconsfiel	Old Burra Road at Moore's to Naylor's	Party FE	1 30 37 6	21111	000	
Oberon to Jenolan Oberon to Jenolan Oberon to Swatchifeld Oberon t	Old Marulan to Oallen Ford			The state of the s		
Oberon to Shooter's Hill Oberon to Shooter's Hill O'Connell to Beaconsfield O'Connell to Beaconsfield O'Connell to Beaconsfield Iso 5,433,61 124,45 in O'Connell to Beaconsfield O'Connell to Booth Appley Iso 5,433,61 124,45 in O'Connell to Booth Appley Iso 5,433,61 124,45 in O'Connell to Booth Appley O'Connell Road to Copper's Overbridge O'Connell Road to Copper's Not Division to Coppe	Oberon to Jenolan	M Town I.		The second	THE RESERVE TO SERVE	
Oberon to Swatchfield O'Connell to Beaconsfield O'Connell to South Appley O'Connell to South Appley O'Connell to South Appley O'Connell to Oberon Is 7, 459 7, 8 140 8, 27 140 8	Oberon to Shooter's Hill	1	1	0.00	0 0	
O'Connell to South Apsley O'Connell to Oberon	Oberon to Swatchfield		Lagren 1	1895	450 7 8	140 8 7
O'Connell to Oberon O'Connell and to Cooper's Overbridge O'Connell and to Cooper's Overbridge O'Connel to Forbe 'See See See See See See See See See See	O'Connell to South Apsley			100000		
Connige to Ophir. 18.84 1.527 9 13.8 18.8 1.627 9 13.8 18.8 1.627 9 13.8 18.8 1.627 9 15.9 7 18.8 1.62 18.8	O'Connell to Oberon				8,166 3 6	
Orange to Ophir.	O'Connell Road to Cooper's Overbridge			100.00	18 18 6	18 18 6
Orange to Orange to Canoblas Orange to Forbes Orange to Grayo Road to Kite's Swamp to Amarco Railway Station Orange to Carcoar Orange to Carcoa	Orange to Ophir		V BE	100000000000000000000000000000000000000		
Orange to Forbes Orange and Cargo Road to Kite's Swamp to Amarco Railway Station Orange to Carcoar Orange to Cargo Road to German's Hill to Canoblas Orange to Cargo Road to German's Hill to Canoblas Orange to Cargo Road to German's Hill to Canoblas Old Castle Hill to Government Reserve Old Castle Hill to Government Reserve Old Castle Hill to Government Reserve Old Warris Road, rear Mundooran Old Gar Road, near Mundooran Old Warris Road, rear Mundooran Old Junee to Morrulebale Old Mila towards Forest Reserve Old Junee to Morrulebale On Keef's Lane to Ettaviongla Railway Station Or Keef's Lane to Ettaviongla Railway Station Orange to Copper's Road Orange	Orange to Warne					
Orange to Cargo Road to Kite's Swamp to Amaro Railway Station Orange to Ledvo Orange to Ledvo Orange to Ledvo Orange to Cargo Road to German's Hill to Canoblas Orange to Cargo Road to German's Hill to Canoblas Orange to Cargo Orange to Ca	Orange to Forbes				0.0	
Orange to Carcoar Orange to Carcoar Orange to Cargo Road to German's Hill to Canoblas	Orange and Cargo Road to Kite's Swamp to Amaroo Railway Station					
Orange to Cargo Road to German's Hill to Canoblas 1896 39 0 0 39 0 0 39 0 0 39 0 0 39 0 0 39 0 0 30 0	Orange to Carcoar			33	249 9 10	249 9 10
Orange to Cargo. Orange to Cargo. ISS 3,513 14 10 15 5 0 16 16 16 16 16 16 16						
Old Castle Hill to Government Reserve Old Windsor Road, via Pearce's, to Blacktown Road Old Gap Road, near Mundooran Old Gap Road, near Mundooran Old Gap Road, near Mundooran Old Warri Road, via Manar, to Mulbon repair, and old Mila towards Forest Reserve Old June to Merulebale Old Mila towards Forest Reserve Old June to Merulebale Old Gefe's Lane to Ettawiongla Railway Station Revenue. Old June to Merulebale Orkeef's Lane to Ettawiongla Railway Station Revenue. Old June to Merulebale Orkeef's Lane to Ettawiongla Railway Station Revenue. Old June to Merulebale Orkeef's Lane to Ettawiongla Railway Station Revenue. Old June to Merulebale Orkeef's Lane to Ettawiongla Railway Station Revenue. Old June to Merulebale Orkeef's Lane to Ettawiongla Railway Station Revenue. Old June to Merulebale Orkeef's Lane to Ettawiongla Railway Station Revenue. Old June to Merulebale Orkeef's Lane to Ettawiongla Railway Station Revenue. Old June to Merulebale Orkeef's Lane to Ettawiongla Railway Station Revenue. Old June to Merulebale Orkeef's Lane to Ettawiongla Railway Station Revenue. Old June to Merulebale Orkeef's Lane to Ettawiongla Railway Station Revenue. Old June to Merulebale Orkeef's Lane to Ettawiongla Railway Station Revenue. Old June to Merulebale Orkeef Distinable Station No. Station					200	2
Old Windsor Road, via Pearce's, to Blacktown Road	Old Castle Hill to Government Reserve					
Old Warri Road, via Manar, to Mulloon repair, and construction. 44 6 8 4 44 6 8 0 8 0 8 0 0 8 0 0 8 0 0 8 0 0 100 0 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Old Windsor Road, via Pearce's, to Blacktown Road			The Tree I		
Old Mila towards Forest Reserve construction. Revenue. " 8 0 0 1 8 0 0 1 8 0 0 0 100 0 0 100 0 0 100 0 0 0	Old Warri Road via Manar to Mulloon		CHO MANUEL STREET	23		
Old Junee to Mervilebale 100 0 0 100 0 0 100 0 0 100 0 0 100 0 0 100 0 0 100 0 0 100 0 0 100 0 0 100 0 0 100 0 0 100 0 0 100 0 0 100 0 0 100 0 0 100 0 0 100 0 0 100 0 0 20 1 6 6 21 6 6 21 6 6 21 6 6 21 6 6 22 2 93 12 6 90 21 2 6 60 20 2 1 2 6 60 20 2 1 2 6 60 20 2 1 2 6 60 20 2 1 2 6 60 20 2 1 2 6 60 20 2 1 2 6 60 20 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Old Mila towards Forest Reserve					17 7 15
Possum Shoot to Cooper's Shoot 1887 10,082 2 2 93 12 12 10 10 10 10 10 10 1	Old Junee to Merrulebale					100 0 0
Possum Brush to Forster Road 1891 762 13 7 21 4 0	Possum Shoot to Cooper's Shoot			The same		
Pearson's to Trimble's 19 12 8	Possum Brush to Forster Road			100		
Pimilice to Wardell and Ballina Road						192 13 10
Pokolbin Hills to Cessnock Road	Pimlico to Wardell and Ballina Road					
Pokoblön Hills and Cessnock Road to Cessnock and Annandale Road 1890 1,582 7 1 284 18 9 Palmer's Plain to South Gundurimbah 1894 804 5 9 107 18 7 Pilliga to Walgett 1893 1,517 18 3 274 11 8 Pilliga, via Buglebone, to Eurie 1894 610 19 0 115 0 0 Peterkin's to Warrell Creek Ferry 1893 1,435 12 7 29 19 10 Pott Macquarie to Tacking Point 1886 705 18 10 34 7 0 Pott Macquarie to Tacking Point 1886 705 18 10 34 7 0 Pott Macquarie to Walcha 1872 49,492 3 9 850 10 6 Pappenburra Creek to Cowal 1872 49,492 3 9 850 10 6 Pappenburra Creek to Cowal 1888 2,146 19 5 173 10 9 Pint-pot Creek to Chandler River 1893 404 13 0 106 13 9 Pint-pot to Kangaroo Hills 1896 109 6 4 109 6 4 Pocket to Bindmouth 1896 109 6 4 109 6 4 Pearce's, via Behan's, to Eatonsville 1895 260 2 6 123 2 6 Pearce's Creek to Booyong Railway Station 1896 37 5 6 37 5 6 Paterson to Vacey 196 3 8 190 13 8 190 13 8 Pithacree Bridge to Dunmore Bridge 1895 261 5 0 134 0 0 Pumbula to Narooma 1896 37 10 0 Pambula to Narooma 1896 439 7 10 439 7 10 Pambula to Rew Buildings 1896 174 18 0 9 9 0 0 Pambula to Merimbula Junction 1896 1896 19 11 11 18 9 11 Picton, via Oakes, to Werombi 1896 1896 175 19 11 18 9 11 Picton Lakes Railway Station to Bargo River 1895 294 18 2 131 18 6 Pertico to Wog Wog 1890 1,570 2 9 244 9 3 Preth to Mount Evenden 1895 294 18 2 131 18 6 Perthon Coradgery 1898 2,042 21 11 17 13 10 10 Parkes to Coradgery 1898 2,042 21 11 Parks to Coradgery 1898 2,042						
Palmer's Island Roads	Pokolbin Hills and Cessnock Road to Cessnock and Annandale Road					THE COLUMN TWO IS NOT
Filliga to Walgett	Palmer's Island Roads			1890		284 18 9
Filligs, via Buglebone, to Kurie	Pilliga to Walgett			100		The second secon
Punt Bridge, via Wamberal, to Tuggerah Lakes 1893 1,435 12 7 29 19 10	Pilliga, via Buglebone, to Eurie			1894		
Port Macquarie to Tacking Point 1886 705 18 10 34 7 0	Punt Bridge, via Wamberal, to Tuggerah Lakes			Contract of the Contract of th		
Port Macquarie to Walcha	Port Macquarie to Tacking Point			-		
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Paterson to Vacey	Pearee's Creek to Booyong Railway Station					
Punkalla to Narooma 1896 37 10 0 37 10 0 Pambula to Bald Hills 1890 174 18 0 9 9 0 Pambula to New Buildings 1896 439 7 10 439 7 10 Pambula to Merimbula Junction 1867 4,698 19 0 309 17 0 309 17 0 Pambula to Back Creek 1896 128 19 11 128 19 11 Picton, via Oakes, to Werombi 1874 17,557 10 9 356 9 7 Picton Lakes Railway Station to Bargo River 1886 1,114 11 8 95 11 4 Perico to Wog Wog 1889 1,114 11 8 95 11 4 Prahran to Snowy Plain 1890 1,570 2 9 244 9 3 Perth to Mount Evenden 1895 294 18 2 131 18 6 Perth, via Charlton, to Rockley "1,029 15 3 338 0 2 233 0 0 Parkes to Coradgery 1888 201 21 21 10 12 10 10 12 12 10	Paterson to Vacey			27	196 13 8	196 13 8
Pambula to Bald Hills 1890 174 18 0 9 9 0 Pambula to New Buildings 1896 439 7 10 439 7 10 Pambula to Merimbula Junction 1867 4,698 19 0 309 17 0 Pambula to Back Creek 1896 128 19 11 128 19 11 Picton, via Oakes, to Werombi 1874 17,557 10 9 356 9 7 Picton Lakes Railway Station to Bargo River 1896 1,114 11 8 95 11 4 Perico to Wog Wog 1889 1,114 11 8 95 11 4 Prahran to Snowy Plain 1890 1,570 2 9 244 9 3 Perth to Mount Evenden 1895 294 18 2 131 18 6 Perth, via Charlton, to Rockley "1,029 15 3 338 19 6 Phillips' to Solferino "388 0 233 0 0 Parkes to Coradgery 1888 201 21 11 17 13 10	Punkalla to Narooma					10000
Pambula to New Bulldings 1896 439 7 10 209 11 12 11	Pambula to Bald Hills			1890		
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Perico to Wog Wog	Picton, via Oakes, to Werombi			1874	17,557 10 9	356 9 7
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Parkes to Coradgery	Phillips' to Solferino			32		
[1887 1,703 10 0 47 5 6	Parkes to Coradgery				2,012 12 11	179 13 10
	Zanace to Dancerogery		(1887	1,703 10 0	47 5 6

Work, and where situated.	Whether Constructing or under Repair.	Fund from which the Expense defrayed.	When Com- menced.	If Unfinished, Amount of Expenditure to 30 June, 1897.	Amount expended from 1 July, 1896, to 30 June, 1897.
ROADS AND BRIDGES—continued. Parkes, via Alice Town, to Peak Mill. Parkes, via Trundle, to Condobolin Parkes to Condobolin Railway Roads in approach Parkes to Manildra Penrith, via Castlereagh, to Blacktown Road, at Larras Grant Portland Ferry, via Mitchell's, to Wiseman's Ferry Portland Ferry, via Hall's, to Sackville Ferry Road Portland Ferry to Leets Vale Road Parramatta to Pennant Hills Parramatta, at East end of Broken Back Bridge, via Windsor and Rich-			1895 1884 1896 1895 1894 1895 1896 1885 1896	£ s. d. 2,057 15 11 10,034 5 11 427 13 6 651 3 1 535 10 1 192 19 3 227 11 2 50 0 1,378 12 9 125 0 0	£ s. d. 952 18 0 487 17 6 427 13 6 270 17 6 185 4 0 73 6 0 91 7 6 50 0 0 93 5 0 125 0 0
mond, to Richmond Bridge Pearce's Corner to Pennant Hills Pearce's Corner to Brooklyn Railway Station Pearce's Corner to Berowra Creek Pennant Hills Road to Mould's Corner Pennant Hills to Hornsby Cutting Down Hill Pennant Hills to Carlingford Pennant Hills Road to Thornleigh Quarry Pennant Hills Road to Beecroft Station Piper's Flat to Sunny Corner Prospect to Richmond Petersham to Abattoirs Park Road Page's Ferry to Wheeney Penshurst to Alleyn River Pokolbin Village Reserve to M'Donald's Paynes Bridge up Stockyard and Bagnell's Creeks Pretty Pine to Moulamein Public School at Kendall to Logan's Crossing Parsonage at Castle Hill to Windsor Road Pennant Hills Road towards Tunks Quirindi to Gunnedah Quirindi, via Bundells, to Bomera Quirindi, via Bundells, to Bomera Quirindi to Werris Creek Quirindi to Warrah Ridge Quirindi to Warrah Ridge Quirindi to Willow-tree Quirindi to Willow-tree Quirindi Platform to Lowe's Creek. Quipolly Platform to Lowe's Creek. Quambone to Warren Queanbeyan to Gundaroo	Maintenance repair, and construction.	dated }	1889 1884 1894 1885 1896 1896 1896 1896 1896 1899	6,675 . 4 3 2,885 8 1 1,016 5 6 654 8 1 1666 7 11 125 11 3 136 0 0 48 8 10 68 2 0 299 0 9 254 8 0 5,432 10 7 200 0 0 100 0 0 15 0 0 254 9 0 254 9 0 254 9 0 254 9 0 254 9 0 254 9 0 254 9 0 251 9 6 10 0 0 573 3 3 5,861 5 2 1,407 8 2 192 19 6 33 18 8 275 13 4 513 15 4 513 15 3 372 3 11 13 17 0 346 2 7 3,052 3 3 2,551 6 0 880 3 0	893 16 11 155 17 2 240 4 3 222 1 0 97 19 0 125 11 3 106 0 0 27 15 8 18 2 0 252 14 3 254 8 0 385 19 7 100 0 0 26 12 0 80 0 0 15 0 0 254 9 0 24 10 6 10 0 0 15 0 0 254 9 0 24 10 6 10 0 0 143 1 10 813 8 4 142 12 3 40 2 6 33 18 8 136 15 5 132 14 7 108 9 0 73 5 8 162 18 11 170 0 8 181 2 1
Queanbeyan to Gininderra Road to Road Queanbeyan to Uriarra Post Office Queanbeyan to Ginninderra Queanbeyan to Braidwood Reddacliffe's to Brunswick River Red Range Road to Bear Hill Rous Factory, via Beeson's, to Wardell Road Road up Left Bank, Wilson's River Red Hill to Kerr's Road up Forbes River Rockvale to Kookabookra Rockvale to Kookabookra Rocky Creek to Terry Hie Hie Rothbury Public School, Allandale, road to Road from West Corner of M'Donald's to Cessnock Rolland's Plains to Dungay Creek Rolland's Plains to Ballingarra Wharf Rawden Island Roads Raymond Terrace and Stroud Road to Martin's Wharf Raymond Terrace and Stroud Road to Raymond Terrace and Seahan Road (Miskell's Road) Raymond Terrace and Stroud Road to Raymond Terrace and Clarence			1896 1878 1896 1892 1894 1892 1896 1892 1894 1895 1895 1893 1891	27 16 10 10,028 6 1 279 8 0 1,827 2 11 565 18 6 1,767 1 6 372 0 4 1,233 10 11 61 6 3 750 2 1 1752 3 10 130 0 0 46 15 8 2,990 6 11 148 9 9 1,108 9 1 811 6 6 553 0 9	27 16 10 168 19 8 279 8 0 116 9 3 153 18 7 27 13 0 91 0 0 236 1 11 61 6 3 99 15 6 26 9 5 40 0 0 16 10 0 144 4 0 74 5 6 103 18 0 184 13 0 56 17 0
town Road (Caswell's Road) Raymond Terrace by East side Williams River to Seaham Raymond Terrace to Morpeth Raymond Terrace and Hinton Road to Seaham Raymond Terrace and Morpeth Road to East Maitland Raymond Terrace to Mount Kanwary Raymond Terrace to Williamstown Raymond Terrace and Morpeth Road to Tarro. Redbank to Merregoen Roads on left bank, Macleay, Skillion Flat to Five-day Creek Rutherford to Scotch Corner Rutherford to Scotch Corner, Road via Hillsborough and Luskintyre Road Rutherford and Telara to Fishery Creek and Teggs Road to Thone Creek Ridgeway's, viz Monkerai, up Karuah River Road through Warren to Savell's Road through Paterson's Road through Harbord Estate			1891 1884 1891 1896 1894 1896 1894 1895 1895 1895 1897 1896 1895	328 9 2 3,134 11 1 4,119 19 4 65 5 6 4,119 19 5 120 0 0 164 1 0 802 13 2 238 7 4 137 10 9 40 0 0 430 4 8 503 5 6 90 6 1 268 13 3 68 0 4	67 9 0 380 9 1 324 6 9 65 5 6 314 0 1 94 16 6 62 15 6 120 0 0 230 4 7 118 7 4 49 10 9 40 0 0 228 11 0 91 14 0 25 15 6 131 5 0 29 8 0

	Work, and where situated.	Whether Constructing or under Repair.	Fund from which the Expense is defrayed.	When Com- menced,	If Unfinished, amount of Expenditure to 30 June, 1897.	Amount expended from 1 July, 1895, to 30 June, 1897.
Ray's Road Carlingfor Round Corner at Dura Round Corner at Dura Ryan's to the Border Redbournberry Bridge Rouchel Store to Stone Rouchel P. S., up Bac Rob Roy to Reedy Crasad up South Branel Road up Right Bank, Road between Nimbea Robertson, via Macque Robertson to the Ceme Robertson to Fountair Richlands to Wombey Rock Station, via Frer Riley's Crossing, via I Runnymede to Bucket Rock Station to Urans Rosewood to Humula Run of Water to Park Rous Hill and Dural Rouse Hill to Schofiel Richmond Bridge to I Richmond Bridge to I Richmond Bridge to I Richmond to Cornwal Rooty Hill Station to Reservoir to Cadia Rydal to Hampton Rankin's Bridge to M Rockley to Trunkey Rockley to Swallow N Rylstone to Bylong Rylstone to Bylong Rylstone to Room Riverse to Randwick and Coogee Roads within limits of Reedy Flat to Orange Roslyn Road to Chain Reidsdale to Warrum Raby to Minto Rhine Falls to Bolaro Redbourneberry Bridg Reedy Creek to Cassil Road from South-east Road from Junction Riverslea to Wyangals Road from South-east Road from Junction Riverslea to Wyangals Road from South-east Road from Junction Riverslea to Wyangals Road from South-east Road from Junction Road South Lismore to Wyangals Road from South-east Road from Toongabbi South Lismore to Wyangals Road from Toongabbi South Grafton to Pen South Grafton to Moc Stoney Pinch to Smit Stoney Creek to Mo	S AND BRIDGES—continued. al to Rouse Hill to Wiseman's Ferry to Dyrring by Oreek k Creek, from Road Aberdeen to Scrumlow sek a, Orara River German Creek Road and Goolmangor Creek mie Pass, to Ghenquarry stery dale an Caves seh's Park, to Green's Gunyah satlow, to Bago shoura derradean esbourne Road to Kenthurst to Fisher's d's Platform Clarke's Bridge King's Road lis Blacktown Road shoukey Hill est to Capertee Asylum La Perouse Roads f Hurstville, Roekdale, Canterbury, &c. and Cadia Road of Ponds bucca go to Scott's Flat is sureh and School Ahiteman's Creamery d. y Racecourse Reserve towards Tintenbar and Boundary in Kemp-street, Kempsey, to d. 52, parish Castlereagh, to Nepean Road acorner of portion 108, Rous towards Henty with road, Urana to junction with Henty, at Ooks Road and Cawdor to Westbrook Road Walla Walla Railway Station towards Shields in Road towards South Creek towards Shields towards Shields towards Shields in Road to Nixon's y Jy Road to farms in New Italy serve serve sughton's and Broom's Head larra rett's sert's serve sy's Creek hotel "y Creek "	Maintenance, repair, and construction.	dated }	1896 1894 1895 1896 1895 1896 1895 1896 1895 1896 1895 1896 1897 1894 1883 1891 1895 1896 1888 1896 1888 1896 1895 1896 1896 1896 1896 1896 1896 1896 1896	£ s. d. 38 5 8 149 0 0 0 550 1 3 186 10 0 50 0 0 26 13 9 449 19 6 164 3 0 69 2 0 53 3 11 2,844 0 1 1 103 19 3 82 3 8 1,142 17 9 499 12 0 640 8 8 163 12 9 11,043 19 5 1,232 0 11 342 19 9 517 7 2 75 0 0 0 958 2 5 29 3 8 8,715 2 8 200 0 0 0 266 15 8 2302 1 11 156 18 6 5,599 11 11 2,672 9 5 3,106 1 1 56 10 0 1,973 8 5 3,706 1 9 140 0 0 0 1,973 8 5 3,706 1 9 140 0 0 0 1,973 8 5 3,706 1 0 1,973 8 5 3,706 1 0 1,973 8 5 3,706 1 0 1,973 8 5 3,706 0 0 2,811 1 10 23 0 0 29 16 6 15 0 0 30 17 4 402 101 11 0 0 0 97 17 4 402 101 11 0 0 0 97 17 4 402 101 11 0 0 29 16 6 15 0 0 10 10 0 23 0 0 24 11 5 0 5 0 0 15 0 0 15 0 0 15 0 0 15 0 0 28,811 1 0 29 16 6 15 0 0 21 15 0 5 0 0 23 14 18 0 24 12 0 5 13 4 6 3 9,314 18 0 13,845 14 3 220 17 6 5 0 0 10 0 0 27,811 1 10 28 10 1,597 6 5 35 0 0 10 10 0 0 27,811 1 10 28 10 1,597 6 5 35 0 0 10 10 0 0 27,811 1 10 28 10 10 29 16 6 15 0 0 29 16 6 15 0 0 29 16 6 15 0 0 29 16 6 15 0 0 29 16 6 15 0 0 27,811 1 10 28 10 29 16 6 15 0 0 20 17 4 402 101 11 50 100 29 16 6 15 0 0 20 17 4 402 101 11 50 100 20 10 0 2	£ 8. d. 38 5 8 8 84 0 0 329 5 5 8 84 0 0 0 0 320 13 9 6 50 3 0 0 9 2 0 10 50 3 11 9 9 57 19 3 8 2 3 8 95 12 8 93 18 0 32 11 9 233 7 4 0 32 11 9 233 7 8 0 0 22 13 18 24 18 0 0 0 8 159 15 18 6 141 15 0 0 0 8 150 18 16 0 17 18 16 18 18 18 18 18 18 18 18 18 18 18 18 18

Work, and where situated.	Whether Constructing or under Repair.	Fund from which the Expense is defrayed.	When Com- menced.	If Unfinished, amount of Expenditure to 30 June, 1897.	Amount expended from 1 July, 1896, to 30 June, 1897.
ROADS AND BRIDGES—continued. Saltash to Nelson's Bay Sandy Creek to Mount Vincent Sandy Creek to Millfield Sandy Hollow to Weddin Creek Scone to Denison Diggings Scone, Meriva Road, up Middle Creek. Scone to Bonoans Brook Scone to Bunnán Scotch Creek Road Singleton and Jerry's Plains Road to Warkworth. Singleton and Jerry's Plains Road to Warkworth. Singleton to Warkworth, to Jerry's Plains Singleton to Warkworth, to Jerry's Plains Singleton to Cooper's Flat Singleton to Warkworth to Jerry's Plains Singleton to Cooper's Flat Singleton to Warkworth Valley Singleton to Warkworth Valley Singleton to Warkworth Valley Synnot's to Funnell's Giggi Creek Road) Sedgefield, 'is Gleudon Bridge, to Gresford Road Sharp's, up East Bank Orara River Saddler's Creek Road Solway's to Gineroi Stockinbingal to Grogan Sutton Forest to Main South Road Solway's to Gineroi Stockinbingal to Grogan Sutton Forest to Main South Road Sutton Forest to Main South Road Sergeant's Point, ria Chalery's Forest, to Wog Wog Sergeant's Point, ria Chalery's Forest, to Wog Wog Sergeant's Point to Clyde Road Southern Road, Main South Creek to Luddenham Sannders' Corner to Kenthurst Sofala to Rylstone South Creek to Luddenham Sannders' Corner to Kenthurst Sofala to Rylstone South Ead Roads South Beak's Meadow Sydney, via Dam's Androws, to Warrangania Sofala to Rylstone, at Moor's, to Warrangania Sofala to Rylstone South Creek to Luddenham Sannders' Corner to Kenthurst Sofala to Rylstone South Creek James's Oakey Spring Hill Station to Orange and Cadia Road South Flead Roads South Flead Roads South Greek to Luddenham Sannders' Corner to Kenthurst Sofala to Rylstone, at Moor's, to Warrangania Sofala to Rylstone, at Moor's, to Warrangania Sofala to Rylstone South Stannor Road from Enmore Road to Canterbruy Trust Road South Flead Roads South F	Maintenance, repair, and construction.	dated {	1882 1894 1893 1894 1893 1896 1896 1896 1896 1896 1898 1898 1895 1895 1895 1896 1897 1898 1896 1897 1896 1897 1896 1897 1896 1897 1896 1897 1898 1896 1897 1896 1897 1896 1897 1896 1897 1896 1897 1896 1897 1896 1897 1896 1897 1898 1896 1897 1896 1897 1898 1896 1897 1898 1896 1897 1898 1898 1899	£ 8. d. 14,273 12 1 523 4 8 1,092 19 1 477 10 8 102 3 0 420 2 10 7,763 10 0 332 19 3 7,820 1 2 564 8 5 29 0 0 1,851 10 4 50 0 0 5,660 5 11 132 5 6 109 11 1 598 18 10 128 11 4 2,993 14 7 66 5 7 66 5 0 132 15 0 45 0 0 830 0 1 326 10 7 2,852 0 8 482 15 9 791 9 9 701,406 7 2 543 4 6 92 15 9 37 0 0 701,406 7 2 543 4 6 92 15 9 37 0 0 701,406 7 2 543 4 6 92 15 9 37 0 0 701,406 7 2 543 4 6 92 15 9 37 0 0 701,406 7 2 543 4 6 92 15 9 37 0 0 701,406 7 2 543 4 6 92 15 9 37 0 0 701,406 7 2 543 4 6 92 15 9 37 0 0 701,406 7 2 543 4 6 92 15 9 37 0 0 701,406 7 2 543 4 6 92 15 9 37 0 0 701,406 7 2 543 4 6 92 15 9 37 0 0 38,871 17 2 70 14 8 1,744 18 1 2,575 12 3 35,600 16 7 119 18 0 209 16 7 209 16 7	£ 8. d. 658 9 11 267 17 8 395 9 5 166 3 2 24 14 0 130 16 06 332 19 3 193 3 4 30 0 0 24 1 0 50 0 0 365 11 0 132 5 6 164 13 9 257 7 2 286 18 9 287 2 2 48 3 6 26 10 7 63 1 1 9 129 2 7 48 3 6 26 10 7 63 1 1 9 129 2 7 48 3 6 26 10 7 63 1 1 10 25 7 7 10 0 0 0 25 7 13 9 20 1 3 7 20 1 4 8 69 9 8 2 2,963 0 1 18 19 0 19 18 0 1

Work, and where situated.	Whether Constructing or under Repair.	Fund from which the Expense is defrayed.	When Com- menced.	If Unfinished, amount of Expenditure to 30 June, 1897.	Amount expended from, r July, 1896, to 30 June, 1897.
ROADS AND BRIDGES—continued. Tent Hill to Table land. Thompson's, up Dairy Arm Thigh to Elsinore. Tweed River at Kyle's, to North Arm at Quain's. Timone Road to Failford. Tinonee to Glishore. Timone to Wingham Ferry. Timone to Killawara Timone to Boodawah. Taree Ferry to Glenthorne Wharf. Taree towards Tomeurry Taree to Wingham Trangie to Collie Ten-mile Hollow to Mangrove Creek Trangie to Nevertire. Timor to foot of Crawney. To Bingera Road. Teralba to Cockle Creek Tuggerah Bench Road to Selections east of Matcham's Tanworth to Nundle. Tanworth to Nundle. Tanworth to Werris Creek Tanworth to Barraba Tanworth to Borneton. Teven to Ferry, south side Tanworth to Somerton. Teven to Ferry, south side Tanworth to Somerton. Teven to Ferry, south side Tallaganda Crossing up Jerrabut Guily Tyagarah to Boyle's Turramurra to Bobbin Head Tea Graving to Juffect's Turramy to Bondies and Towarna to Houline Towarna to Archursleigh Taralga to Bummaros Ford. Taralga to Bummaros Ford. Taralga to Bummaros Ford. Taralga to Bummaros Ford. Taralga, Rockwell Road, to the Cemetery. Taralga to Bummaros Ford. Taralga, Rockwell Road, to the Cemetery. Taralga to Bummaros Ford. Taralga, Rockwell Road, to the Cemetery. Taralga to Bummaros Ford. Taralga to Bummaros Ford. Taralga, Rockwell Road, to the Cemetery. Towarna to New Buildings Towamba to Hondie Hollow Towamba to Bondi Road to the Cemetery. Towamba to New Buildings Towamba to New Buildings Towamba to Hondie Hollow Turnor's Road from Black's towards Town's Thirrout to Tomorroma Tumut to Klandra Tumut to Klandra Tumut to Kundra Tumut to Hollow Hollow Towamba to Bondi Road to the Cemetery. Tumut towards Road from Black's towards Town's Thirwower Road from Black's towards Town's Tharwawards Road to Shendend Tumut t	Maintenance, repair, and construction.	dated }	1891 1888 1896 1894 1895 1896 1895 1896 1895 1896 1895 1896 1895 1896 1897 1896 1896 1897 1896 1891 1894 1896 1896 1896 1896 1897 1896 1896 1897 1896 1896 1897 1896 1897 1896 1896 1897 1896 1896 1897 1896 1896 1897 1896	## 8. d. 40,069 6 1 1,644 4 1 38 0 0 264 11 3 25 0 0 607 16 0 128 16 0 2,981 11 5 402 14 10 178 3 11 17 17 8 3,693 4 10 1,172 15 10 341 1 2 0 3 4 10 1,172 15 10 341 1 2 0 3 4 10 1,172 15 10 341 1 0 2,123 16 10 2,3694 9 5 52 19 11 14,079 13 7 149 19 7 2,123 16 10 2,702 0 3 333 2 7 758 18 4 190 5 10 386 13 0 51 15 0 387 18 8 160 11 10 457 5 4 2,947 15 6 43 17 3 98 17 2 2,122 13 9 36 11 10 88,181 15 0 1,174 13 2 2,122 13 9 1,198 2 4 48 0 1 2,001 18 6 399 7 9 50 0 37 7 6 37 7 6 37 7 6 37 7 7 38 18 4 48 0 1 2,001 18 0 39 17 2 2,122 13 9 1,198 2 4 48 0 1 2,001 18 6 399 7 9 50 0 37 7 6 37 7 6 37 7 6 37 7 6 39 18 3 39 18 3 39 18 3 39 18 0 22,525 16 2 8 48 0 1 2,001 18 6 30 0 0 32 14 6 399 7 9 50 0 37 7 6 37 7 6 37 7 6 37 7 6 37 7 6 38 18 3 39 18 3 39 18 0 22,525 16 2 2 48 0 1 2,107 14 8 140 0 993 18 3 39 18 0 22,525 16 2 1 28 0 0 2,525 16 2 1 28 10 0 2,525 16 2 1 28 10 0 2,525 16 2 1 28 10 0 2,525 16 2 1 28 10 0 2,525 16 2 1 28 10 0 2,525 16 2 1 28 10 0 2,525 16 2 1 28 10 0 2,525 16 2 2 2,521 13 0 2,525 16 2 1 2,601 15 5 0 401 15 5 0 401 15 5 0 402 17 18 8 140 10 0 14,254 3 8 24,001 15 5 0 403 17 8 140 0 478 4 10 48 10	£ s. d. 4.465 11 7 108 17 0 38 0 0 264 11 3 25 0 0 201 0 0 0 119 14 0 129 16 11 50 0 6 54 5 6 137 18 6 199 1 2 0 38 7 9 119 11 1 66 18 6 41 12 9 88 3 2 34 0 0 6 18 18 3 28 6 8 1,908 18 2 34 10 0 618 18 3 28 6 8 1,908 18 2 149 19 7 180 0 0 295 9 0 109 13 0 109 13 0 187 18 9 56 8 5 111 11 6 27 0 0 187 18 9 56 8 5 111 11 6 27 0 0 187 18 9 56 8 5 111 11 6 27 0 0 187 18 9 18 12 11 10 75 5 0 220 18 4 77 9 6 210 11 5 43 17 3 87 1 2 2216 6 11 24 10 0 69 1 10 864 4 10 122 12 3 32 19 0 122 17 0 48 0 1 129 0 1 30 0 0 62 14 6 54 9 5 50 0 19 16 0 14 10 0 124 1 8 39 18 0 57 12 253 3 5 313 12 7 277 15 9 1,937 7 1 1,346 19 4 28 0 0 351 4 6 368 17 4 253 3 5 313 12 7 277 15 9 1,993 7 1 1,346 19 4 28 0 0 351 4 6 368 17 4 249 2 3 16 15 0 351 4 6 368 17 4 249 2 3 16 15 0 351 4 6 368 17 4 249 2 3 16 15 0 351 4 6 368 17 4 249 2 3 16 15 0 351 4 6 368 17 4 249 2 3 16 15 0 351 4 6 368 17 4 249 2 3 16 15 0 351 4 6 368 17 4 249 2 3 16 15 0 351 4 6 368 17 4 249 2 3 16 15 0 371 3 5 44 10 0 47 8 1 210 10 0 241 1 7 656 16 4 249 2 3 16 15 0 351 4 6 368 17 4 249 2 3 16 15 0 371 3 5 44 10 0 47 8 10

Work, and where situated.	Whether Constructing or under Repair.	Fund from which the Expense is defrayed.	When com- menced.	If Unfinished, amount of Expenditure to 30 June, 1897.	Amount expended from I July, 1896, to 30 June, 1897
ROADS AND BRIDGES—continued.				£ s. d.	£ s. d
omki Estate Road, through from Tatham, Lismore Road)	1	1896	7 8 9	7 8 9
halaba, via Major's Creek, to Stroudaylor's Flats, via Bolong and Phillis Creek, to junction with		1	22	33 6 0	33 6 0
Burrowa, Narrawa Road			53	20 12 6	20 12 6
arraganda to Reedy Swamp			23	108 0 0	108 0 0
hirlmere, via Westbourne Avenue, across Noonan's Bridge, to Howarth's Farm					
congabbie Post Office and Public School and Church towards		1	73	14 10 0	14 10 0
Railway			,,,	30 0 0	30 0 0
ralla to Bundarra Imarra to Yamba			1879	21,140 5 1	274 11 6
Imarra to Corindi		1	1893	3,918 17 7	838 10 2 171 5 9
ralla, via Balala, to Kingstown			1881	3,471 2 0	129 12 3
ralla, via Gostwycke, to Rockwood	100		1894	245 16 2 811 7 6	75 13 10
nion Church to Southgate Wharf			1889	2,426 15 10	50 15 4 68 5 8
nderbank to Upper Chichester			1896	107 13 0	107 13 0
nderbank to Upper Williams			1893	355 5 7	134 11 7
lundry to Obley			1894	777 9 10 178 7 0	79 I O
rana to Boree Creek			,,,	85 I 4	42 0 0
rana to Brookong Diggings pper Dartbrook and Sparke's Creek Road			1896	9 0 0	9 0 0
pper Dartbrook to Upper Wybong			1896	13 8 0	54 2 10 13 8 0
pper Lansdowne Roads			,,	365 5 0	365 5 0
pper Road to Eastwood pper Picton to Windmill Hill	- 1	1	1892	1,041 0 0	175 0 0
pper Karaah Flat to Wingham-Nowendoc Road			1095	60 0 0	30 0 0
pper North Creek to Byron Bay Road	-		1896	24 19 1	24 19 1
pper Camden Haven to Laurieton, road up Black's Creek to Perrott's C.P.				26 0 9	26 2 9
pper Boggy Creek Road			33	36 0 8	36 0 8
iolet Dale up Dumaresq Creek			1894	243 9 3	8i 4 4
acey to Gresford			1896	283 13 2	283 13 2
ineyard School to Pitt Town Common			37	67 0 0 37 8 4	67 0 0 37 8 4
oodfordleigh to Tynedale			1895	794 4 2	67 I 5
yrallah to Rous Cebster's to Flood's			1888	8,931 6 4	271 6 6
ee Talaba, via Angledool, to Goodooga			1893	80 0 0 326 6 4	80 0 0 87 0 I
ardell, Rous Road, to Alstonville	37	0 1	1891	974 1 5	60 14 3
ardell to Rous	Maintenance,	Consoli- dated	1895	1,060 0 3	479 7 0 206 0 10
ardell to the Beach	construction.	THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	1891	1,394 10 2	6 10 0
Toodburn to Bungawalbyn Ferry			1892	1,111 1 5	151 0 0
oodburn to Evan's River Heads oodburn to Tucki			1895	72 18 9	23 16 9 461 19 3
oodburn, Wardell Road, to the Beach			1896	18 10 3	18 10 3
oodburn to Boundary Creek			22	302 9 0	302 9 0
oodburn to Dungarubba			1891	17 6 0	17 6 0 160 14 0
oodburn to the Gap (Huka Road)			1893	429 1 9	92 16 4
atterview to Ramornie			1891	284 2 9	79 19 6
est Branch, Orara River, to Buchanan's			1891	974 12 2	40 0 0
hiteman's Creamery to Whiteman's Bridge			1896	52 10 0	52 10 0
arialda to Bogamildi arialda to Inverell			1894	595 8 1	903 12 11
arialda to Yetman			1876	9,420 5 8	210 19 0
arialda to Gunyerwarialdi arialda, via Gragin, to Reedy Creek			1879	5,590 11 10	282 11 8
arialda, via Ezzie's, to Moree			1886	1,038 3 2 25,492 9 4	71 8 8
ilson's Downfall to Rivertree		N. 1	1887	4,850 3 3	171 5 8
ilson's to Sneath's ellingrove to Strathbogie and Bonshaw	-		1896	71 0 0	71 0 0
andsworth to "Old Ben Lomond Inn"			1889	2,017 18 5	36 7 0
allangra to Strathbogie			1894	363 18 2	190 4 2
allangra to Boggabilla algett to Combogolong			1895	1,312 12 1	1,068 13 8
algett to Goondabloui			1892	300 0 0	300 0 0
algett Road, to Wee Waa, to Pian Creek		1	1891	315 7 3	22 14 6
algett, via the Springs to Brewarrina, Goodooga Road			1896	198 5 9	198 5 9
algett to Corinda			1893	1,772 11 10	369 12 16
algett towards Brewarrina			1894	269 8 0	109 0
alcha Road to Walcha alcha Road to Niangla			1806	919 18 11	199 1 6
alcha to Emu Creek			1896	200 0 0	200 0 C
alcha to Eulo			1892	941 8 7	200 0 0
alcha to Aberbaldie ingham, up Cedar Party Creek.			1880	327 6 5	90 0 0
ingham and Nowendoc Road to Karaak Flat	170		1882	2,710 16 5 708 4 8	39 11 4
ingham, via Brimbin, to Lansdown			1885	778 10 6	34 19 6
lingham to Nowendoe lingham, via Ashlea, to Kelvin Grove			1883	17,511 9 5 3,740 14 2	965 17 6

			-		
Work, and where situated.	Whether Constructing or under Repair.	Fund from which the Expense is defrayed.	When Com- menced.	If Unfinished, amount of Expenditure to 30 June, 1897.	Amount expended from 1 July, 1896, to 30 June, 1897
Wilson's River, sie Bas Scrub, to Walcha. Wauchope to Beechwood Wauchope to Heron's Creek Wood, sie Tuggerah Lakes Platform, to Water Reserve No. 76. Woodbury's to Yarramalong Worng to Allison's Warkworth to Putity Warkworth, sie Bulga to Holmes Creek Wollombi to Cessnock Wollombi to Cossnock Wollombi to Cossnock Wollombi to Cossnock Wollombi to Congewai Wollombi to Gongwai Wollombi to Ferry to Broke Wiseman's Ferry to Broke Wallaend to Gosford Road, at Cooranbong Wallaend to Sandgate Cemetery Wallsend to Sandgate Cemetery Wallsend to Sandgate Cemetery Wallsend to Caslend Relief Works West Maitland to Mulbering Creek West Maitland to Mulbering Creek West Maitland to Mulbering Creek West Maitland to Gosford Road, at Cooranbong Wallahadah to Quirindi Wallabadah to Quirindi Wallabadah to Quirindi Wallabadah to Numdle and Swamp Creek Woodnom to Cadells Woodlown towards Quirindi Wallabadah to Numdle and Swamp Creek Worsing Creek Gap to Railway Station Walcha to Drumoro Werric Creek Gap to Railway Station Walcha to Urulla Walcha to Port Macquarie Waterfall to Otford Hill Deviation at Helensburgh Railway Station. Whee to Binda. Wheeo to Reid's Flat Wheeo to Binda. Wheeo to Reid's Flat Wheeo to Binda. Wheeo to Swaga Waga to Gregadoo Road, along west side Lake Albert Wagas Wagas, via Sandy Creek, to Rock Station Wagas Wagas, via Railway Line, to Narranders Crossing, Cowabee Creek Wagas Wagas to General Road, at F.R., 1,42r to Devlin's Siding Wagas Wagas to Gregadoo Road, at F.R., 1,42r to Devlin's Siding Wagas Wagas, via Railway Line, to Narranders. Wagas Wagas, via Railway Line, to Narranders. Wagas Wagas, via Railway Line, to Narranders. Wester of Cooker Walls. Windsor Road, to Model Farm Windsor to Sonth Australian Border.	Maintenance, repair, and construction.	_dated {	1877 1896 1892 1896 1893 1896 1893 1896 1896 1896 1896 1896 1897 1896 1898 1888 1896 1897 1895 1890 1896 1898 1896 1898 1896 1898 1896 1898 1896 1898 1896 1898 1896 1896	£ s. d. 3,537 II 4 406 I6 2 1,794 3 9 828 I 0 345 I9 5 150 0 0 11,543 I 3 3,216 I 4 105 I4 3 130 7 I 167 3 8 1,779 I7 II 36 5 3 646 9 6 31 I 1 0 848 7 7 156 6 0 12,024 2 4 356 I 0 250 0 0 3,271 I7 10 250 0 0 14,515 I 3 45 3 10 5,619 I2 5,648 3 2 0 144 0 I 1,20 5 7 2,760 IS 2 202 I3 0 4,543 I9 15 2,508 I0 II 3,557 I 3 766 7 5 243 I0 0 74 7 0 75 7 13 13 0 10 10 10 10 10 10 10 10 10 10 10 10 10 1	£ s. d. 198

Work, and where situated.	Whether Constructing or under Repair.	Fund from which the Expense is defrayed.	When com- menced.	If Unfinished, amount of Expenditure to 30 June, 1897.	Amount expended from I July, 1896, to 30 June, 1897.
ROADS AND BRIDGES—continued. Wiseman's Ferry, through Leet's Vale to Dargle's Farm Windeyer to Queen's Pinch. Windeyer to Queen's Pinch, at Campbell's Crossing Wallerawang to Mudgee Wallerawang to Mudgee Wallerawang to Henderson's Gate Walliarawang to Henderson's Gate Walliary Junction to Botobolar Wellington to Woolamon Wellington to Cobborah Wellington to Cobborah, at Comobella towards Wellington Wellington to Munbil and Burrendong Road Wilcannia to Wompah Wilcannia to Wompah (Coally Flat Embankment) Wilcannia to Goekburn Wilcannia to Goekburn Wilcannia to Goekburn Wilcannia to Goekburn Wilcannia to Wompah (Coally Flat Embankment) Wilcannia to Goekburn Wilcannia to Wompah (Coally Flat Embankment) Wilcannia to Goekburn Wilcannia to Wompah (Coally Flat Embankment) Wilcannia to Goekburn Wilcannia to Wompah (Coally Flat Embankment) Wilcannia to Goekburn Wilcannia to Wompah (Coally Flat Embankment) Wilcannia to Goekburn Wilcannia to Wompah (Coally Flat Embankment) Wilcannia to Wompah (Coally Flat Embankment) Wellington to Goolma Wilcannia to Wompah (Coally Flat Embankment) Wilcannia to Wompah (Coally Flat Embankment) Wallaroba to Wanaaring Wall's to Bowning	Maintenance, repair, and construction.	Consoli- dated		## Spenditure to 30 June, 1897. ## 8	
Hope-street, Warialda Copeland-street East, Beccroft. Helensburgh West—Clearing			33	***********	15 0 0 9 9 0 34 0 0

				inueu.		
Work, nd where uated.		Whether Constructing or under Repair.	Fund from which the Expense is defrayed.	When com- menced.	If Unfinished, amount of Expenditure to 30 June, 1397.	Amount expended from r July, 1896, to 30 June, 1897.
STREETS-continued.					£ s. d.	0 , 1
			(1896		£ s. d.
Russart-street, Lyndhurst	************				444	29 0 0
Young-street, Brewarrina				33		143 9 9
High-street, Lawrence, Clearing	*******			35	***********	3 19 8
Hillgrove Hospital, Street leading to				22	************	20 3 3
Primrose-street, Wingham				33	***************************************	10 11 6
Rifle-street, Clarencetown				32	*********	75 17 0
Fop-street, Walgett	***********			57	***********	300 9 0
Neild-street, Wyalong Louce-street, Rylstone				33	***********	300 9 0 58 0 0
Louise-Bireco, My Island Manager Manag				23		30 0 0
SUNDRIES.				i in in	A STATE OF THE REAL PROPERTY.	
Compensation to A. J. Single				33		400 0 0
Centennial Park Relief Works	*********			33	***************************************	419 0 11
Church and School Lands, Randwick Trust Fund				23	***************************************	3,634 2 0
Expenses of Punts	**********			22	**************	3,596 5 7
Incidental Expenses		12 1 2 1 1 1		13	*************	50 0 0
Gratuity, Retrenched Officers				23	*************	243 19 5
Es'ablishment, Salaries				27	***************************************	12,396 3 4
Salaries, Equipment, and Travelling Allowances				27		43,625 8 0
Compensation to Mrs. J. H. Gordon				33	***********	500 0 0
Compensation to Denvis Hall			HALL BY	32		126 0 0
Special Grants to Country and Suburban Municipalitie	s (as per	THE PARTY		33	**************	61,145 19 1
Statement.)* Clearing Scrub, Rifle Range, Randwick			PERM		***********	141 17 9
Bridge Material				22	*************	8 13 4
Boring Supplies				22	************	3 5 8
Boiler and Steam Winch—Repairs				32		17 15 11
Bridge Store Account			F - 1	2,3	***************************************	273 12 7
Testing Timber Joints				22	************	5 I 4
Weathering Gear for Bridges	**********			22	************	31 5 6
Purchase of Metal from Railway Commissioners	***********			- 23	************	1,000 0 0
AMOUNTS issued to Municipalities for Maintenance of MIN	OR ROADS					
within their Limits.	OH AUGUS					
As per Statement *				22	************	7,926 13 1
Armidale Council				23	************	44 0 0
Ballina				23		22 0 0
Cobar				23	***************************************	38 0 0
Cabramatta and Canley Vale				3)	************	43 IO O 38 IO O
Deniliquin		Maintenance,		39	***************************************	20 0 0
Morpeth		repair, and	dated 3	22	***************************************	34 10 0
Moama		construction.	Revenue.	22	***********	30 10 0
Penrith				37	************	15 0 0
St. Mary's				33	************	16 5 0
Wentworth				33		1,768 14 5
Work done for other Departments				33	* ***********	1,700 14 5
PUNTS.				1211		
Ryde Punt—Approaches				27	**********	17 17 6
Macksville Punt and Approaches				22		119 14 6
Boat at Mookerawa Creek, Macquarie River	**********			22	***********	2 13 2
Punt, Hawkesbury River, at Windsor				12	***********	323 12 9 71 15 0
Teven Ferry—Approaches				22	***************************************	71 15 0
Port Hacking Punt—Repairs Murwillumbah—New Punt				- 27	******************	237 0 2
Boat at Keepit				33	************	8 8 0
				8.0	**********	IIO
George's River Ferry-Approaches				3.9		AND DESCRIPTION OF THE PERSON
George's River Ferry—Approaches Byrnes' Point Ferry—Waiting-shed				33		12 9 6
George's River Ferry—Approaches Byrnes' Point Ferry—Waiting-shed Tynedale Punt—Approaches				23		16 16 0
George's River Ferry—Approaches Byrnes' Point Ferry—Waiting-shed Tynedale Punt—Approaches Wyong Ferry—Approaches				n n n		16 16 0 1 12 2
George's River Ferry—Approaches Byrnes' Point Ferry—Waiting-shed Tynedale Punt—Approaches Wyong Ferry—Approaches Tinonee Punt—Approaches				27 27 27		16 16 0 1 12 2 385 17 2
George's River Ferry—Approaches Byrnes' Point Ferry—Waiting-shed Tynedale Punt—Approaches Wyong Ferry—Approaches Tinonee Punt—Approaches Raymond Terrace Ferry—Approaches, Miller's Forest Side	************			23 25 23 23 23 23		16 16 0 1 12 2
George's River Ferry—Approaches Byrnes' Point Ferry—Waiting-shed Tynedale Punt—Approaches Wyong Ferry—Approaches Tinonee Punt—Approaches Raymond Terrace Ferry—Approaches, Miller's Forest Side				27 27 27		16 16 0 1 12 2 385 17 2 768 10 1 87 8 0 146 5 0
George's River Ferry—Approaches Byrnes' Point Ferry—Waiting-shed Tynedale Punt—Approaches Wyong Ferry—Approaches Tinonee Punt—Approaches Raymond Terrace Ferry—Approaches, Miller's Forest Side Fresh Water Supply Ferry-house, Raymond Terrace—Alterations				23 23 23 23 33 33		16 16 0 1 12 2 385 17 2 768 10 1 87 8 0
George's River Ferry—Approaches Byrnes' Point Ferry—Waiting-shed Tynedale Punt—Approaches Wyong Ferry—Approaches Tinonee Punt—Approaches Raymond Terrace Ferry—Approaches, Miller's Forest Side "Fresh Water Supply Ferry-house, Raymond Terrace—Alterations Slip and Shed, Woodburn Pants.				23 23 23 23 23 23 23 23		16 16 0 1 12 2 385 17 2 768 10 1 87 8 0 146 5 0
George's River Ferry—Approaches Byrnes' Point Ferry—Waiting-shed Tynedale Punt—Approaches Wyong Ferry—Approaches Tinonee Punt—Approaches Raymond Terrace Ferry—Approaches, Miller's Forest Side "Fresh Water Supply Ferry-house, Raymond Terrace—Alterations Slip and Shed, Woodburn Punts. CAUSEWAYS.				33 33 33 33 33 33 33 33 33		16 16 0 1 12 2 385 17 2 768 10 1 87 8 0 146 5 0 98 0 3
George's River Ferry—Approaches Byrnes' Point Ferry—Waiting-shed Tynedale Punt—Approaches Wyong Ferry—Approaches Tinonee Punt—Approaches Raymond Terrace Ferry—Approaches, Miller's Forest Side Fresh Water Supply Ferry-house, Raymond Terrace—Alterations Slip and Shed, Woodburn Pants CAUSEWAYS. Baerami Creek—Causeway				23 25 23 23 23 23 22 22 22 23		16 16 0 1 12 2 385 17 2 768 10 1 87 8 0 146 5 0 98 0 3
George's River Ferry—Approaches Byrnes' Point Ferry—Waiting-shed Tynedale Punt—Approaches Wyong Ferry—Approaches Tinonee Punt—Approaches Raymond Terrace Ferry—Approaches, Miller's Forest Side Fresh Water Supply Ferry-house, Raymond Terrace—Alterations Slip and Shed, Woodburn Punts. CAUSEWAYS. Baerami Creek—Causeway Mulga Creek, Byrock to Boarke-Cobar Road				23 25 23 23 23 23 23 23 23 23 23 23 23		16 16 0 1 12 2 385 17 2 768 10 1 87 8 0 146 5 0 98 0 3
George's River Ferry—Approaches Byrnes' Point Ferry—Waiting-shed Tynedale Punt—Approaches Wyong Ferry—Approaches Tinonee Punt—Approaches Raymond Terrace Ferry—Approaches, Miller's Forest Side Fresh Water Supply Ferry-house, Raymond Terrace—Alterations Slip and Shed, Woodburn Punts. CAUSEWAYS. Baerami Creek—Causeway Mulga Creek, Byrock to Bourke-Cobar Road Causeway, Wallamandara towards Warrangong				33 33 33 33 33 33 33 33 33 33 33 33 33		16 16 0 1 12 2 385 17 2 768 10 1 87 8 0 146 5 0 98 0 3
George's River Ferry—Approaches Byrnes' Point Ferry—Waiting-shed Tynedale Punt—Approaches Wyong Ferry—Approaches Tinonee Punt—Approaches Raymond Terrace Ferry—Approaches, Miller's Forest Side "Fresh Water Supply Ferry-house, Raymond Terrace—Alterations Slip and Shed, Woodburn Punts. CAUSEWAYS. Baerami Creek—Causeway Mulga Creek, Byrock to Boarke-Cobar Road Causeway, Wallamandara towards Warrangong Causeway, Kean's Gully, Main South Road				23 25 23 23 23 23 23 23 23 23 23 23 23		16 16 0 1 12 2 385 17 2 768 10 1 87 8 0 146 5 0 98 0 3 25 12 0 59 19 0 19 19 0
George's River Ferry—Approaches Byrnes' Point Ferry—Waiting-shed Tynedale Punt—Approaches Wyong Ferry—Approaches Tinonee Punt—Approaches Raymond Terrace Ferry—Approaches, Miller's Forest Side Fresh Water Supply Ferry-house, Raymond Terrace—Alterations Slip and Shed, Woodburn Pants. CAUSEWAYS. Baerami Creek—Causeway Mulga Creek, Byrock to Bourke-Cobar Road Causeway, Wallamandara towards Warrangong))))))))))))))))))))		16 16 0 1 12 2 385 17 2 768 10 1 87 8 0 146 5 0 98 0 3 25 12 0 59 19 0 19 19 0 73 19 3 64 2 6
George's River Ferry—Approaches Byrnes' Point Ferry—Waiting-shed Tynedale Punt—Approaches Wyong Ferry—Approaches Tinonee Punt—Approaches Raymond Terrace Ferry—Approaches, Miller's Forest Side Fresh Water Supply Ferry-house, Raymond Terrace—Alterations Slip and Shed, Woodburn Punts CAUSEWAYS. Baerami Creek—Causeway Mulga Creek, Byrock to Bourke-Cobar Road Causeway, Wallamandara towards Warrangong Causeway, Kean's Gully, Main South Road Causeway, McLaughlin's Creek, at Sutton Boggabri in Approach				3) 2) 3) 3) 3) 3) 3) 3) 3) 3) 3) 3) 3) 3) 3)		16 16 0 1 12 2 385 17 2 768 10 1 87 8 0 146 5 0 98 0 3 25 12 0 59 19 0 19 19 0 73 19 3 64 2 6
George's River Ferry—Approaches Byrnes' Point Ferry—Waiting-shed Tynedale Punt—Approaches Wyong Ferry—Approaches Tinonee Punt—Approaches Raymond Terrace Ferry—Approaches, Miller's Forest Side Fresh Water Supply Ferry-house, Raymond Terrace—Alterations Slip and Shed, Woodburn Punts CAUSEWAYS. Baerami Creek—Causeway Mulga Creek, Byrock to Bourke-Cobar Road Causeway, Wallamandara towards Warrangong Causeway, Wallamandara towards Warrangong Causeway, McLaughlin's Creek, at Sutton Boggabri in Approach CULVERTS.				3) 2) 3) 3) 3) 3) 3) 3) 3) 3) 3) 3) 3) 3) 3)		16 16 0 1 12 2 385 17 2 768 10 1 87 8 0 146 5 0 98 0 3 25 12 0 59 19 0 19 19 0 73 19 3 64 2 6 35 6 0
George's River Ferry—Approaches Byrnes' Point Ferry—Waiting-shed Tynedale Punt—Approaches Wyong Ferry—Approaches Tinonee Punt—Approaches Raymond Terrace Ferry—Approaches, Miller's Forest Side Fresh Water Supply Ferry-house, Raymond Terrace—Alterations Slip and Shed, Woodburn Punts CAUSEWAYS. Baerami Creek—Causeway Mulga Creek, Byrock to Bourke-Cobar Road Causeway, Wallamandara towards Warrangong Causeway, Wean's Gully, Main South Road Causeway, McLaughlin's Creek, at Sutton Boggabri in Approach CULVERTS. Culvert, Alcorn's Creek				23 23 23 23 23 23 23 23 23 23 23 23 23 2		16 16 0 1 12 2 385 17 2 768 10 1 87 8 0 146 5 0 98 0 3 25 12 0 59 19 0 19 19 0 73 19 3 64 2 6 35 6 0
George's River Ferry—Approaches Byrnes' Point Ferry—Waiting-shed Tynedale Punt—Approaches Wyong Ferry—Approaches Tinonee Punt—Approaches Raymond Terrace Ferry—Approaches, Miller's Forest Side "Fresh Water Supply Ferry-house, Raymond Terrace—Alterations Slip and Shed, Woodburn Pants. CAUSEWAYS. Baerami Creek—Causeway Mulga Creek, Byrock to Bourke-Cobar Road Causeway, Wallamandara towards Warrangong Causeway, Kean's Gully, Main South Road Causeway, McLaughlin's Creek, at Sutton Boggabri in Approach CULVERTS. Culvert, Alcorn's Creek. "Baragoot Lake Crossing, Bega to Bermagui"				23 25 25 27 29 29 29 29 29 20 21 21 21 21 21 21 21 21 21 21 21 21 21		16 16 0 1 12 2 385 17 2 768 10 1 87 8 0 146 5 0 98 0 3 25 12 0 59 19 0 19 19 0 73 19 3 64 2 6 35 6 0
George's River Ferry—Approaches Byrnes' Point Ferry—Waiting-shed Tynedale Punt—Approaches Wyong Ferry—Approaches Tinonee Punt—Approaches Raymond Terrace Ferry—Approaches, Miller's Forest Side Fresh Water Supply Ferry-house, Raymond Terrace—Alterations Slip and Shed, Woodburn Punts. CAUSEWAYS. Baerami Creek—Causeway Mulga Creek, Byrock to Boarke-Cobar Road Causeway, WallamanJara towards Warrangong Causeway, Kean's Gully, Main South Road Causeway, McLaughlin's Creek, at Sutton Boggabri in Approach CULVERTS. Culvert, Alcorn's Creek. Baragoot Lake Crossing, Bega to Bermagui Brady's Cowal Metalling Approaches.				33 25 33 33 33 33 33 33 33 33 33 33 34 35 37 37 37 37 37 37 37 37 37 37 37 37 37		16 16 0 1 12 2 385 17 2 768 10 1 87 8 0 146 5 0 98 0 3 25 12 0 59 19 0 19 19 0 73 19 3 64 2 6 35 6 0 80 3 0 200 0 0 44 0 0
George's River Ferry—Approaches Byrnes' Point Ferry—Waiting-shed Tynedale Punt—Approaches Wyong Ferry—Approaches Tinonee Punt—Approaches Raymond Terrace Ferry—Approaches, Miller's Forest Side Fresh Water Supply Ferry-house, Raymond Terrace—Alterations Slip and Shed, Woodburn Punts CAUSEWAYS. Baerami Creek—Causeway Mulga Creek, Byrock to Boarke-Cobar Road Causeway, Wallamandara towards Warrangong Causeway, Kean's Gully, Main South Road Causeway, McLaughlin's Creek, at Sutton Boggabri in Approach CULVERTS. Culvert, Alcorn's Creek Baragoot Lake Crossing, Bega to Bermagui Brady's Cowal Metalling Approaches Blacktown Road				33 22 23 23 23 23 23 23 23 23 23 23 23 2		16 16 0 1 12 2 385 17 2 768 10 1 87 8 0 146 5 0 98 0 3 25 12 0 59 19 0 19 19 0 73 19 3 64 2 6 35 6 0 80 3 0 200 0 0 44 0 0
George's River Ferry—Approaches Byrnes' Point Ferry—Waiting-shed Tynedale Punt—Approaches Wyong Ferry—Approaches Raymond Terrace Ferry—Approaches, Miller's Forest Side Fresh Water Supply Ferry-house, Raymond Terrace—Alterations Slip and Shed, Woodburn Punts CAUSEWAYS. Baerami Creek—Causeway Mulga Creek, Byrock to Bourke-Cobar Road Causeway, Wallamandara towards Warrangong Causeway, Kean's Gully, Main South Road Causeway, McLaughlin's Creek, at Sutton Boggabri in Approach CULVERTS. Culvert, Alcorn's Creek Baragoot Lake Crossing, Bega to Bermagui Brady's Cowal Metalling Approaches Berrigau Creek, Shands to Berrigan Berrigan Creek, Shands to Berrigan				33 25 33 33 33 33 33 33 33 33 33 33 34 35 37 37 37 37 37 37 37 37 37 37 37 37 37		16 16 0 1 12 2 385 17 2 768 10 1 87 8 0 146 5 0 98 0 3 25 12 0 59 19 0 19 19 0 73 19 3 64 2 6 35 6 0 80 3 0 200 0 0 25 0 0
George's River Ferry—Approaches Byrnes' Point Ferry—Waiting-shed Tynedale Punt—Approaches Wyong Ferry—Approaches Tinonee Punt—Approaches Raymond Terrace Ferry—Approaches, Miller's Forest Side Fresh Water Supply Ferry-house, Raymond Terrace—Alterations Slip and Shed, Woodburn Pants CAUSEWAYS. Baerami Creek—Causeway Mulga Creek, Byrock to Bourke-Cobar Road Causeway, Wallamandara towards Warrangong Causeway, Kean's Gully, Main South Road Causeway, McLaughlin's Creek, at Sutton Boggabri in Approach CULVERTS. Culvert, Alcorn's Creek Baragoot Lake Crossing, Bega to Bermagui Brady's Cowal Metalling Approaches Blacktown Road Berrigan Creek, Shands to Berrigan Botany Road, Waterloo Hamilton's Main South Creet Read				23 23 23 23 23 23 23 23 23 23 23 23 23 2		16 16 0 1 12 2 385 17 2 768 10 1 87 8 0 146 5 0 98 0 3 25 12 0 59 19 0 19 19 0 73 19 3 64 2 6 35 6 0 80 3 0 200 0 0 44 0 0 25 0 0 146 16 10 24 5 0
George's River Ferry—Approaches Byrnes' Point Ferry—Waiting-shed Tynedale Punt—Approaches Wyong Ferry—Approaches Tinonee Punt—Approaches Raymond Terrace Ferry—Approaches, Miller's Forest Side " Fresh Water Supply Ferry-house, Raymond Terrace—Alterations Slip and Shed, Woodburn Pants. CAUSEWAYS. Baerami Creek—Causeway Mulga Creek, Byrock to Bourke-Cobar Road Causeway, Wallamandara towards Warrangong Causeway, Kean's Gully, Main South Road Causeway, McLaughlin's Creek, at Sutton Boggabri in Approach CULVERTS. Culvert, Alcorn's Creek Baragoot Lake Crossing, Bega to Bermagui Baragoot Lake Crossing, Bega to Bermagui Blacktown Road Berrigan Creek, Shands to Berrigan Botany Road, Waterloo				23 23 23 23 23 23 23 23 23 23 23 23 23 2		16 16 0 1 12 2 385 17 2 768 10 1 87 8 0 146 5 0 98 0 3 25 12 0 59 19 0 19 19 0 73 19 3 64 2 6 35 6 0 80 3 0 200 0 0 44 0 0 25 0 0 146 16 10

Work, and where situated.	Whether Constructing or under Repair.	Fund from which the Expense is defrayed.	When com- menced.	If Unfinished, amount of Expenditure to 30 June, 1897.	Amount expended from 1 July, 1896, to 30 June, 189
CULVERTS—continued.				£ s. d.	£ s.
alvert in Lane, near Trangie Railway Station			1896	************	123 18
,, Llandilo to Blacktown, on road			22	************	4 12
Middle Creek, Cannonbar to Pine Range			"		212 16
, near Aberfoil, Road Guyra to Oban			22	***********	31 2
,, near Kingswood, Main West Road			"	**********	41 19 116 14
, North Creek, Braidwood to Nerriga			23	***************************************	50 0
,, on road, Tenterfield, via Griffith's and Rigney's farms towards		1			5-
the Mole			2,	***********	44 19
" over Cowal, at Gordie's Gate, Grangee to Collie			>>	***********	74 19
", on road, Milson's Point, via Lane Cove to Peat's Ferry			22	***************************************	5 2
,, Payling Yard Creek			2.9	************	47 2
", Hutching's Gully			27	************	30 0
" Hinton to Mount Kanwary		i	22	**************	81 19
" Slaughter House Creek			23	*****************	28 0
FOOTBRIDGES.					
ootbridge, Burrangong Creek			,,	************	44 0
,, Karuah River, Gorton's Crossing			33		14 10
" Jembaicumbene Creek			22	************	71 4
,, Back Creek			22	************	20 0
", Yetman	The state of the s		22		84 5
Rocky River Glen Elgin		E E	- 27	***********	101 13
,, Rocky River, Glen Elgin ,, Bega River, Auckland			22	***********	17 6
,, Bargo River			57		96 9
, Meadow Creek			27	***************************************	10 0
" Quirindi Creek, at Wallabadah			27	************	63 11
CONSTRUCTION AND REPAIR OF BRIDGES.			70		
bury				***************************************	339 14 1
midale			53	************	408 6
ourke			27		639 9
ayney			22	*************	44 4
ga			22	************	235 13
llina			53		5 0
ombalaaidwood			23	101172 2 111249	69 18 1
thurst			3.3	******************	23 15
llingen			32	******************	33 15
mpbelitown			33	**************	38 0
WP8	Maintenance	Canal:	>>	************	247 14
sino	Maintenance, repair, and		32	***********	392 15
ookwell	construction.		22	*************	30 11
otamundra			33	*************	494 19 1
onabbo	La Sie Al		33	***************************************	35 10
miliquin			37	***************************************	271 10
rbes			22	******************	911 6
afton			22	***************************************	80 10
osford			33	**************	30 8
oulburn			- 33	311111111111111111111111111111111111111	120 12 1
en Innes			33	***********	140 5
verell			2.0	***************************************	383 5
ama			33	***************************************	9 7
empsey			22	**********	505 4
smore			23		273 14 1
aclean			22	*************	68 18
urwillumbah			_ 33	************	330 0
aitlanduswellbrook	THE RESERVE		27		1,127 15
pree			22	**************	202 10 1 363 1
ndgee			23	***************************************	79 1
oss Vale			22		195 1
etropolitan			23	***************************************	526 11
rrabri			33	***************************************	182 5
weastle			, 33		201 12
rramatta			33	5111111111111111	506 1
rt Macquarie			37	************	336 4
eanbeyan	1 30 2 30 7	in the land	22	***************************************	289 18
irindi			22	***************************************	415 8
hmond			27	************	401 19
oud			22	***************************************	420 18
mut			22		280 I
nworth	0. 1	2	27	***********	182 12
nterfield			27	***************	613 4
mberumba	1))	***************************************	19 8
ollombi			33	***********	86 I
algett			33		517 10
arialda			- 22	*************	95 3
agga Wagga			"		145 16 1
ung			22	***************************************	288 2
	1		22	***********	384 I

	Work, and where situated.	Whether Constructing or under Repair.	Fund from which the Expense is defrayed.	When com- menced.	If Finished, actual amount of Expenditure.	If Unfinished, amount of Expenditure to 30 June, 1897.	Amount expended fro 1 July, 1896 to 30 June, 18
ı	BRIDGES—continusd.				£ s. d.	£ s. d.	£ s.
idge	, Aston's Creek, Delegate to Bombala	7	-	1896	163 9 9		163 9
"	Brusby Creek			"	52 10 0	*************	52 10
33	Broken Back Creek, Congarini to Port Macquarie Black and Deep Creeks, Cessnock to Allandale			39	168 1 9	*************	168 1
57	Bega River, at Bega—Repairs			55	511 13 4	***************************************	511 13 156 7
"	Black Gully Creek, Moree, via Goonal to Mogil			-			
	Mogil Broadwater			17	325 10 9	· · · · · · · · · · · · · · · · · · ·	325 10
33	Baronne Creek, Coonamble to Gilgandra			1895	853 3 2 244 17 8	***************	742 19 172 17
,,	Bril Bril Creek, Ennis to Glen Esk, Upper Plains			1896	249 2 0		249 2
>>	Brown's Creek, Carcoar to Milthorpe and Cadia			"	193 6 2	correctors	193 6
22	Beckett's Creek and Approach Brian's Bridge over Cuddie's Creek			1895	151 2 5 274 6 7	***************	147 14 274 6
33	Black Bob's Creek			1895	541 17 2		331 12
53	Belford Creek			31	225 2 0	************	30 2
33	Brewer's Creek, Wilcannia to Wentworth Falls			1896	162 0 0	************	102 0
33	Black Creek, Tenterfield to Tabulam			1093	649 0 1	*************	537 11
22	Boomerang Creek			29	118 11 5	***********	68 17
93	Cattai or Murphy's Creek, Rous Hill to Dural Carore Creek		1	1896	458 2 1	· · · · · · · · · · · · · · · · · · ·	458 2
33	Cattai Creek, McGrath's Hill to Maroota			1895	695 3 3 653 7 7	***************************************	560 18 653 7
33	Croaker's Waterholes, Dunmore to Clarencetown			31	255 16 11	eierreereere	255 16
53	Curban Creek		1	1895	147 11 0	***********	147 11
"	Catherine Hill Bay			1896	78 12 2 260 8 8		50 I2 269 8
33	Cuttaburra Creek			1894	4,723 12 7	consequences	963 8
33	Cooper's Creek, Bega to Bembooka Cooper's Creek, Clunes to Staggs			1895	636 0 6	*************	351 1
,,	Cowra—Maintenance			1896	33 0 0	************	33 ° 118 5
17	Cungegong Creek			55	186 10 4	*************	133 4
33	Cudgegong Creek			23	1,973 9 9	***********	673 17
33	Charity Creek, Taree			55	1,565 14 3	***********	730 4
23	Cedar Creek, Thirlmere to Lakesland			1896	154 17 6		154 17
23	Cabramatta Creek			1895	278 17 0	· · · · · · · · · · · · · · · · · · ·	220 5
33	Dingo Creek, at Rocky Crossing			1895	547 9 7	reconstruct of	547 9 302 12
33	Duren's Creek, Gosford to Cooranborg	Main-		1895	1,547 14 7 262 10 3	************	262 10
>>	Doctor's Creek	tenance,	Consoli-	1895	548 3 I	***************************************	546 18
33	Eleven-mile Creek, Tenterfield to Ballina		dated {	1896	308 8 6 256 9 8	*****************	308 8 158 9
33	For under the Hill		Revenue.	"	151 2 7	***************************************	151 0
32	Gullies in Hoile's portion 1 and 2, Colo River			1896	397 1 4	**********	397 I
39	Gundary Creek, near Goulburn Guilfoyle's Creek			53	598 12 1	***************************************	598 12 141 5
35	Hyndman's Creek		i	1895	418 15 9	************	353 15
59	Hay, Footway			1896	10 16 0	***********	10 16
) y	Herriott's Creek			1895	625 18 4	**************	580 13 311 12
))	Jerrabat Gulla			1895	548 19 0	*************	348 2
13	Korea Creek, Main South Coast Road			1896	257 4 5	***************************************	257 4
>>	Kangaroo River, Old Bridge Kelaher's Creek, Walgett to Pian Creek		1	33	194 8 2	errecenturerere	20 16 194 8
13	Laing's Creek			33	219 9 9	**************************************	219 9
33	Lachlan River, at Narrawa		į	33	1,531 10 6	**************************************	1,531 10
**	Little Dark Creek, Newcastle to Minmi			1895	284 12 3	**********	23 17
"	Lachlan River, at Inglewood			1895	142 18 8	***********	142 18 997 5
13	Mann River			33	1,567 5 0	continuen	1,567 5
22	Moore's Creek Muckerawa Creek	1		53	330 0 0		330 0
))	Myrtle Creek, Casino to Lawrence			33	355 12 2	***************	355 12
13	Mooki River, Walhallow		j	13	586 11 3	**************************************	442 11
1)	Mattaganah Czeek			1895	1,145 8 7	************	849 12
13	Mehi River			1896	907 13 1		893 10
19	Marone Creek, Tucki to Rous			1896	331 11 2	***********	331 11
17	Middle Arm Moule's Main Flat			22	80 0 0	***********	80 0
,	Nunnock Creek			35	238 13 9 901 9 8	************	238 13 901 9
31	Nepean River, at Menaugle			33	18 13 0	ereconsequences	18 13
15	Narrawalla			1895	447 2 1	***********	390 8
,	Nowra—Repairs Norths.			1896	147 11 6	***************************************	147 11
12	Old Walgett—Repairs			1895	82 17 4 32 0 0	***************************************	13 0
2	Old Man Creek, Wagga to Gillenbah			2093	471 4 0	************	60 4
11	Orara River, near Keranghi			27	604 17 11	***************************************	85 14
"	Oakey Creek, Chandler's Bridge to Kempsey			1896	39 10 0	*************	29 0 39 10
22	Oolong Creek, Dalton	The state of the state of		1895	621 2 10	************	271 2
35	Pitt Town, No. 1			1896	282 I 4		- 282 I
22	Pearce's Creek			1895	265 17 6	***************************************	247 5

	Work, and where situated.	Whether Constructing or under Repair.	Fund from which the Expense is defrayed	When com- menced,		If Unfinished, amount of Expenditure to 30 June, 1897.	Amount expended from 1 July, 1896, to 30 June, 189
	BRIDGES—continued.				£ s. d.	£ s. d.	£ s.
ridge, Pa	ambula River, at Pambula	1	1	1896	332 12 0	*************	332 12
" Pe	lican Creek, Coraki to Wyrallah			"	14 10 0		14 10
DI	oberts' or Boggy Creek			1895	146 6 8	************	146 6
	opes' Creek		. 2	1896	429 10 4		429 10
" Sn	ake's Creek, Tenterfield to Ballina			3)	416 1 10		416 1 1
,, Sa	ndy Creek, Cooranbong to Newportndy Creek, Tumut to Adelong			22	484 17 10	*************	484 17 1
" Su	garloaf Creek, Wollombi to Yango			22	235 7 9 203 4 3		² 35 7 203 4
,, Sa	ucy Creek, Bombala to Delegate			1)	803 10 8	***************************************	803 10
	ltwater Creek, Mullimbimby to Byron Bay			1895	305 6 6		54 13 1
	ickett's Creekuthgate	1		1896	142 6 4 489 4 I		46 6 477 IO
" Ту	endall's Gully, Great West Road			1896	108 10 0		108 10
	ndall's Gully, No. 3			23	418 12 8	************	418 12
	ylor's Creekylor's Creek			1895	674 15 5	**********	674 15
	icki Creek, Tucki to Rous			1896	223 3 7	***************************************	223 3
,, Tv	vo-mile Creek, at Bigga			- 33	210 19 3		210 19
W	gt's Gully, Kelloshiel to Little Forestilber Creek	1		22	112 2 2	*********	112 2
	ongewomble Creek			>>	208 5 4 154 18 5		203 5
,, W	arung Creek, at Home Valley			33	58 15 0		58 15
777	akooloolway Creek, Cooma to Buckley's Crossing			1895	482 5 2		379 10
	hiskin's Gully			1896	1,338 5 1	***************************************	1,338 5
	yong Creek, Gosford to Cooranbong		- 1	1896	1,387 15 10		1,387 15
,, W	ickham and Approach			1894	392 7 2		59 14
Va	indsor—Repairs			*806	2,189 3 3	******	1,691 17
	osley River, Fitzroy-street, Walcha			1896	137 14 2	98 9 11	98 9
,, Ad	lelong, Lithgow			33		I 2 6	I 2
	ercrombie			33		134 18 2	134 18
Ro	ker's Creek, Limeburner's Creek to Krambach			1892	**********	1,309 10 3	581 8
Party.	lranald			1893	**********	1,398 10 6	487 8
,, Ba	rnes' Gully			1896	**********	0 4 0	0 4
	ardy River, Glen Innes to Red Range	Main-		1895		426 1 11	292 11
" Be	rrima River, Wingecarribee	tenance,	1	1896		304 II 0 1,187 I4 2	364 11
" Bo	rambil Creek, Muswellbrook	repair,	Consoli-	33	**********	45 19 0	45 19
	rambil Creek, Quirindi	and	dated 3	"		47 19 6	47 19
	llacodyn Creeklabula River, Carcoar	construc-	Kevenue.	1895		756 6 5	525 3
" Be	ardy River, West Approach			1896		60 0 0	60 0
" Ba	rrington			1895		3 8 9	0 5
Co	llarendabri			1896	*************	139 8 10	139 8
	to Creek			"	**********	306 10 4	306 10
	rr's Gully			,,	********	93 I O	93 I
	sgrove Creekopernook—Maintenance			1895	**********	150 9 9 288 1 7	196 1
" Ca	mpbell River—Approach			22		195 0 8	93 13
,, Di	ngo Creek, at Tetsell's			37		163 0 5	48 3
Do	nmore		7 8 14	1896		59 7 10	59 7
	algetty	I de la		12	*************	2 12 0	2 10
,, Er	ina Creek—Repairs			1892	***********	460 12 5	52 11
	anagan's Creek, Main South Coast Road			1896	***********	211 17 6	111 10
	tzroy, Windsor			1895		17 12 7	157 7 17 12
,, G1	rattai Creek—Approach compensation	1		,,	*********	10 17 6	10 17
	ebe Island—Repairs			1895		55 I 9	3 I
Chr	im Creek, Hay to Darlington Point			1896		9 13 0	9 13
,, Go	vernor's Hill, Goulburn—Repairs			22		4 1 10	4 1
,, Ha	immer's Creek impden River, Wagga—Approach		7	1895		454 11 6	453 9
", Ha	ay—Repairs			1896	**********	2,361 2 0	130 0
" Ho	owlong			1896		197 7 3	197 7
	wksview—Repairs			1895		18 10 8	15 19
Tm	on Cove—Repairs			22	1111111111111	103 18 3	55 15
	ving, Casino			1896	***********	62 4 11	62 4
" Jo	nes))		52 0 0	52 0
Tás	ngswood		E PET AT	9.9		31 1 2	31 I 33 4
Tio	mestone Creekne Cove and Parramatta—Repairs			1895	***********	1,859 4 0	33 4
" Lit	ttle Hartley Creek, Great West Road			1896	**********	324 15 7	324 15
" La	nes	1 = 0 = 1		- "	**********	35 2 2	35 2
M	ttle Malabah			1804		122 7 4 84 6 7	122 7
	ulwala			1894	**********	84 6 7 468 8 5	21 18 8 2

Bridge, MacDonald River, 1 and 2 Macquarie River Mountain Creek Muscle Creek, Great North Road Moruya Borings on Main South Coast Road Murray River, Mulwala (Approach) North Bourke Nimboy River Nepean River, Penrith—Repairs Oyster Lake Oakey Creek, Narrabri to Pilliga opposite Sea wall, Coogee Bay—Repairs Oil Inverell—Repairs Payres Payres Paterson River, at Yacey Paterson River, at Hinton Price's, Main South Coast Road Ready Creek, Great North Road Rankin's, Bathurst—Repairs Swansea Smith's Creek Six-mile Creek Six-mile Creek Six-mile Creek Singleton—Repairs Tocumwal Tamworth—Repairs Toumbledown Creek—Land compensation Tom Thumb Lagoon Timber for bridges Telegherry Creek Tuena—Repairs Wethworth—Repairs Wethworth—Repairs Wethworth—Repairs Wethworth—Repairs Toumbledown Creek, Land compensation Tom Thumb Lagoon Timber for bridges Telegherry Creek Tuena—Repairs Wentworth—Repairs Wethworth—Repairs Wethworth—R	Re	ructing inder pair.	from which the Expense is defrayed.	Com- menced.	actual amount of Expenditure.	amount of Expenditure to 30 June, 1897.	expended from 1 July, 1896, to 30 June, 189
Macquarie River Mountain Creek Muscle Creek, Great North Road Moruya Borings. on Main South Coast Road Murray River, Mulwala (Approach) North Bourke Nimboy River Noyeau River Nopean River, Penrith — Repairs Oyster Lake Oakey Creek, Narrabri to Pilliga opposite Sea well, Coogee Bay—Repairs Old Inverell—Repairs Pyrmont—Repairs Paynes Parramatta—Repairs Patramatta — Repairs Patramatta River, at Vacey Parramatta River, at Rydalmere (Borings) Peterkin's Creek Pitnacree Paterson River, at Hinton Price's, Main South Coast Road Reedy Creek, Great North Road Rankin's, Bathurst—Repairs Swansea Smith's Creek Six-mile Creek Six-mile Creek Singleton—Repairs Tocumwal Tamworth—Repairs Toumbeldown Creek—Land compensation Tom Thumb Lagoon Timber for bridges Teleghery Creek Tuena—Repairs Wentworth—Repairs Wentworth—Repairs Wentworth—Repairs Wentworth—Repairs Wentworth—Repairs Wentworth—Repairs Undeannis—Maintenance Waterworks, Botany, Warren, Macquarie River Adelong Creek, at Moore's Crossing Bogan River, at Monkey Blaxland's Crossing, Nepean River Cultaburra Creek (3) Colombo Creek Coloradigbee Creek Culgoa River, at Weilmoringle Denison Bridge, Bathurst—Protection of river b Edwards' River, Deniliquin Ellenborough River Fall's Creek Swan Hill—Caretaker's cottage Seven Hills—No. 2, near Station Seven Hills—No. 2, near Station Seven Hills—No. 1, near Station Seven Hills—No. 2, near Station Seven Hills—No. 1, near Station Seven Hills—No. 2, near Station Se					£ s. d.	£ s. d.	£ s. (
Macquarie River Mountain Creek Muscle Creek, Great North Road Moruya Borings. on Main South Coast Road Murray River, Mulwala (Approach) North Bourke. Nimboy River. Noyeau River Nopeau River Nopeau River, Penrith—Repairs. Oyster Lake Cakey Creek, Narrabri to Pilliga opposite Sea well, Coogee Bay—Repairs Old Inverell—Repairs Pyrmont—Repairs Pyrmont—Repairs Parramatta—Repairs Patreson River, at Vacey Parramatta River, at Rydalmere (Borings) Peterkin's Creek Pitnacree Paterson River, at Hinton Price's, Main South Coast Road Reedy Creek, Great North Road. Rankin's, Bathurst—Repairs Swansea Smith's Creek Six-mile Creek Six-mile Creek Singleton—Repairs Tocumwal Tamworth—Repairs Toumbedown Creek—Land compensation Tom Thunb Lagoon Timber for bridges Telegherry Creek Tuena—Repairs Wentworth—Repairs Undland's Crossing, Nepean River Adelong Creek, at Moore's Crossing Bogan River, at Weilmoringle Denison Bridge, Bathurst—Protection of river b Edwards' River, Deniliquin Ellenborough River Fall's Creek Cooradigbee Creek Collgoa River, at O'Connell Gobarralong, Murrumbidgee River Giant's Creek Marra Creek, near Butterbone, Warren to Me Harris Molonglo River, at Foxlow MeIntyre River, at Inverell Namoi River, at Inverell Namoi River, at Inverell Namoi River, at Foxlow MeIntyre River, at Inverell Namoi River, at Inverell Namoi River, at Foxlow MeIntyre River, at Inverell Namoi River, at Inverell Namoi River, at Poxlow MeIntyre River, at Inverell Namoi River, at Poxlow MeIntyre River, at Inverell Namoi River, at Rydalmere River Contabura Creek, near Butterbone, Warren to Me Harris Fals Creek Monnee to Congarini Denre Creek, Moonee to Congarini)		(1896		114 2 6	114 2
Musele Creek, Great North Road Moruya Borings on Main South Coast Road Murray River, Mulwala (Approach) North Bourke Noyeau River Noyeau Repairs Noyeau Repairs Patrason River, at Vacey Parramatta River, at Rydalmere (Borings) Peterkin's Creek Pitnacree Paterson River, at Hinton Price's, Main South Coast Road Reedy Creek, Great North Road Rankin's, Bathurst—Repairs Swansea Smith's Creek Six-mile Creek Six-mile Creek Six-mile Creek Singleton -Repairs Tocumwal Tamworth—Repairs Tocumwal Tamworth—Repairs Tumbledown Creek—Land compensation Tom Thumb Lagoon Timber for bridges Telegherry Creek Tuena—Repairs Wetnworth—Repairs Wetnworth—Repairs Wicanniz—Maintenance Waterworks, Botany Warren, Macquarie River Adelong Creek, at Moore's Crossing Bogan River, at Monkey Blaxland's Crossing, Nepean River Cuttaburra Creek (3) Colombo Creek Cooradigbee Creek Coloradigbee Creek Coloradigbee Creek Coloradigbee Creek Coloradigbee Creek Coloradigbee Creek Coloradigbee River Fall's Creek Fish River, at Wellmoringle Denison Bridge, Bathurst—Protection of river b Edwards' River, Deniliquin Ellenborough River Fall's Creek Fish River, at Hover Namo River, at Welmoringle Denison Bridge, Bathurst—Protection of river b Edwards' River, Jeneiliquin Ellenborough River Fall's Creek Fish River, at Hover Namo River, at Walget Swan Hill				22	**********	86 6 0	86 6
Moruya Borings on Main South Coast Road Murray River, Mulwala (Approach) North Bourke Nimboy River Nopeau River Nepean River, Penrith—Regairs Oyster Lake Oakey Creek, Narrabri to Pilliga opposite Sea wall, Coogee Bay—Repairs Old Inverell—Repairs Pyrmont—Repairs Pyrmont—Repairs Parramatta—Repairs Paterson River, at Vacey Parramatta Kiver, at Vacey Parramatta Kiver, at Hinton Price's, Main South Coast Road Reedy Creek, Great North Road Rankin's, Bathurst—Repairs Swansea Smith's Creek. Six-mile Creek Saltwater Creek, Wilson's River, via Bar Scrul Walcha South Creek Singleton—Repairs Toumwal Tamworth—Repairs Tumbledown Creek—Land compensation Tom Thumb Lagoon Timber for bridges Telegherry Creek Telena—Repairs Wentworth—Repairs Wulcanniz—Maintenance Waterworks, Botany Warren, Macquarie River Adelong Creek, at Moore's Crossing Bogan River, at Monkey Blaxland's Crossing, Nepean River Cuttaburra Creek (3) Colombo Creek Culgoa River, at Wellmoringle Denison Bridge, Bathurst—Protection of river b Edwards' River, Deniliquin Ellenborough River Fall's Creek Fish River, at Wellmoringle Denison Bridge, Bathurst—Protection of river b Edwards' River, Deniliquin Ellenborough River Fall's Creek Fish River, at Wellmoringle Denison Bridge, Bathurst—Protection of river b Edwards' River, at Wellmoringle Denison Bridge, Bathurst—Protection of river b Edwards' River, at Wellmoringle Denison Bridge, Bathurst—Protection of river b Edwards' River, at Second River Giant's Creek Fish River, at O'Connell Gobarralong, Murrumbidgee River Giant's Creek Fish River, at Inverell Namoi River, at Valgett Swan Hill Swan Hill—Caretaker's cottage Seven Hills—No. 2, near Station Bargo River, Main South Road Borow Bridge, Main South Road Borow Bridg				33	***********	163 2 0 246 8 0	163 2 246 8
mon Main South Coast Road Murray River, Mulwala (Approach) North Bourke Nimboy River Noyeau River Noyeau River Noyeau River Noyeau River Oakey Creek, Narrabri to Pilliga opposite Sea wall, Coogee Bay—Repairs Old Inverell—Repairs Pyrmont—Repairs Pyrmont—Repairs Patramatta—Repairs Patramatta—Repairs Patramatta River, at Vacey Parramatta River, at Rydalmere (Borings) Peterkin's Creek Pitnacree Paterson River, at Hinton Price's, Main South Coast Road Reedy Creek, Great North Road Rankin's, Bathurst—Repairs Swansea Smith's Creek Six-mile Creek Sistwater Creek, Wilson's River, via Bar Scrul Walcha South Creek Singleton—Repairs Tocumwal Tamworth—Repairs Tocumwal Tamworth—Repairs Tumbledown Creek—Land compensation Tom Thumb Lagoon Timber for bridges Telegherry Creek Tuena—Repairs Wentworth—Repairs Welcannis—Maintenance Waterworks, Botany Warren, Macquarie River Adelong Creek, at Moore's Crossing Bogan River, at Monkey Blazland's Crossing, Nepean River. Cuttaburra Creek (3) Colombo Creek Couradighee Creek Coloradighee Creek Coloradi			i	33		0 2 7	0 2
North Bourke. Nimboy River. Nopeau River Nepean River, Pennith—Repairs. Oyster Lake. Oakey Creek, Narrabri to Pilliga opposite Sea wall, Coogee Bay—Repairs. Old Inverell—Repairs. Paynes. Paynes. Parramatta—Repairs. Paterson River, at Vacey. Parramatta River, at Rydalmere (Borings). Peterkin's Creek. Pitnacree. Paterson River, at Hinton. Price's, Main South Coast Road. Reedy Creek, Great North Road. Rankin's, Bathurst—Repairs. Swansea. Smith's Creek. Six-mile Creek. Six-mile Creek. Six-mile Creek. Six-mile Creek. Singleton—Repairs. Toeumwal. Tamworth—Repairs. Toeumwal. Tamworth—Repairs. Tumbledown Creek—Land compensation. Tom Thunb Lagoon. Timber for bridges. Telegherry Creek. Tuena—Repairs Wentworth—Repairs. Wolcanniz—Maintenance. Waterworks, Botany. Waterworks, Rotany. Rotan	(71)			53		103 15 11	103 15 1
"Nimboy River." Noyeau River Noyeau River, Penrith—Repairs. Oyster Lake Oakey Creek, Narrabri to Pilliga opposite Sea wall, Coogee Bay—Repairs Old Inverell—Repairs. Pyrmont—Repairs. Paynes Paramatta—Repairs. Paterson River, at Vacey. Patramatta River, at Rydalmere (Borings) Peterkin's Creek. Pitnacree Paterson River, at Hinton Price's, Main South Coast Road. Reedy Creek, Great North Road. Rankin's, Bathurst—Repairs. Swansea. Smith's Creek. Six-mile Creek Saltwater Creek, Wilson's River, via Bar Scrut Walcha. South Creek Singleton—Repairs Tocumwal Tamworth—Repairs. Tumbledown Creek—Land compensation Tom Thumb Lagoon Timber for bridges Telegherry Creek Tuena—Repairs. Wentworth—Repairs Wentworth—Repairs Wilcannis—Maintenance Waterworks, Botany. Warren, Macquarie River Adelong Creek, at Moore's Crossing Bogan River, at Monkey Blaxland's Crossing, Nepean River Cuttaburra Creek (3) Colombo Creek Cooradighee Creek Cooradighee Creek Cooradighee Creek Cooradighee Creek Colgoa River, at Weilmoringle Denison Bridge, Bathurst—Protection of river b Edwards' River, Deniliquin Ellemborough River Fall's Creek Fish River, at O'Connell Gobarralong, Murrumbidgee River Giant's Creek. Marra Creek, near Butterbone, Warren to Mo Harris Mologlo River, at Foxlow McIntyre River, at Inverell Namoi River, at Foxlow McIntyre River, at Inverell Namoi River, at Weight Swan Hill—Caretaker's cottage Seven Hills—No. 2, near Station Tantawanglo River Tenterfield Creek, Manners-strect, Tenterfield Victoria, East Maitland, Wallis Creek Warrambool (3), Walget towards Brewarrina Windsor—Raising Bargo River, Mann South Road Borow Bridge, Main South Road Borow Creek, Moonee to Congarini Devent Repairs Denis Road Rankinshale, Wallis Creek Warrambool (3), Walget towards Brewarrina. Windsor—Raising Bargo River, Monners-Street, Tenterfield Victoria, East Maitland, Wallis Creek				33	**********	105 7 7	105 7
Nopeau River Nopeau River, Penrith—Repairs Oakey Creek, Narrabri to Pilliga opposite Sea wall, Coogee Bay—Repairs Old Inverell—Repairs Paymes Paymes Parramatta—Repairs Paterson River, at Vaeey Paterson River, at Vaeey Paterson River, at Rydalmere (Borings) Peterkin's Creek Pitnacree Paterson River, at Hinton Price's, Main South Coast Road Reedy Creek, Great North Road Rankin's, Bathurs—Repairs Swansea Smith's Creek Six-mile Creek Six-mile Creek, Wilson's River, via Bar Scrul Walcha South Creek Singleton—Repairs Tocumwal Tamworth—Repairs Tocumwal Tamworth—Repairs Tumbledown Creek—Land compensation Tom Thumb Lagoon Timber for bridges Telegherry Creek Tuena—Repairs Wentworth—Repairs Wentworth—Repairs Wentworth—Repairs Wentworth—Repairs Wentworth—Repairs Wolcanniz—Maintenance Waterworks, Botany Warern, Macquarie River Adelong Creek, at Moore's Crossing Bogan River, at Monkey Blaxland's Crossing, Nepean River Cuttaburra Creek (3) Colombo Creek Cooradigbee Creek Culgoa River, at Welmoringle Denison Bridge, Bathurst—Protection of river b Edwards' River, Deniliquin Ellemborough River Fall's Creek Fish River, at O'Connell Gobarralong, Murrumbidgee River Giant's Croek Fish River, at O'Connell Gobarralong, Murrumbidgee River Giant's Croek Fish River, at Foxlow MeIntyre River, at Inverell Namoi River, at Walgett Swan Hill—Caretaker's cottage Seven Hills—No. 2, near Station Tantawanglo River Tenterfield Creek, Manners-street, Tenterfield Victorie, East Maitland, Wallis Creek Warrambool (3), Walget towards Brewarrina Windsor—Raising Baron Creek, Possum Shoot to Brooklett. Coalbaggie Creek, Monne to Congarini Deven Persen Bridge, Main South Road Borow Creek, Possum Shoot to Brooklett. Coalbaggie Creek, Monne to Congarini Deven Persen Bridge Bridge Road				72		148 7 3	148 7
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Tuena—Repairs Wentworth—Repairs Wilcanniz—Maintenance Waterworks, Botany Warren, Macquarie River Adelong Creek, at Moore's Crossing Bogan River, at Monkey Blaxland's Crossing, Nepean River Cuttaburra Creek (3) Colombo Creek Cooradigbee Creek. Culgoa River, at Weilmoringle Denison Bridge, Bathurst—Protection of river b Edwards' River, Deniliquin Ellenborough River Fall's Creek Fish River, at O'Connell Gobarralong, Murrumbidgee River. Giant's Creek. Marra Creek, near Butterbone, Warren to Mo Harris Molonglo River, at Foxlow MeIntyre River, at Inverell. Namoi River, at Walgett Swan Hill—Caretaker's cottage Seven Hills—No. 1, near Station Seven Hills—No. 2, near Station Tantawanglo River Tenterfield Creek, Manners-street, Tenterfield . Victoria, East Maitland, Wallis Creek Warrambool (3), Walget towards Brewarrina Windsor—Raising Bargo River, Main South Road Borow Bridge, Main South Boad Byron Creek, Possum Shoot to Brooklett. Coalbaggie Creek, Dubbo, Coonamble to Collie Deep Creek, Moonee to Congarini		enance,	Consoli-	27		2,559 14 3	2,559 14
Wentworth—Repairs Wilcannia—Maintenance Waterworks, Botany Warren, Macquarie River Adelong Creek, at Moore's Crossing Bogan River, at Monkey Blaxland's Crossing, Nepean River. Cuttaburra Creek (3) Colombo Creek Cooradigbee Creek. Culgoa River, at Weilmoringle Denison Bridge, Bathurst—Protection of river b Edwards' River, Deniliquin Ellenborough River Fall's Creek Fish River, at O'Connell Gobarralong, Murrumbidgee River. Giant's Creek. Marra Creek, near Butterbone, Warren to Mc Harris Molonglo River, at Foxlow McIntyre River, at Inverell Namoi River, at Walgett Swan Hill Swan Hill—Caretaker's cottage Seven Hills—No. 1, near Station. Seven Hills—No. 2, near Station. Tantawanglo River Tenterfield Creek, Manners-street, Tenterfield Victoria, East Maitland, Wallis Creek Warrambool (3), Walget towards Brewarrina Windsor—Raising Bargo River, Main South Road Borow Bridge, Main South Road	} 1	repair,	dated {	37	10111111111	124 0 0 64 18 3	64 18
Wilcannia—Maintenance Waterworks, Botany Warren, Macquarie River Adelong Creek, at Moore's Crossing Bogan River, at Monkey Blaxland's Crossing, Nepean River Cuttaburra Creek (3) Colombo Creek Cooradighee Creek Cooradighee Creek Culgoa River, at Weilmoringle Denison Bridge, Bathurst—Protection of river b Edwards' River, Deniliquin Ellenborough River Fall's Creek Fish River, at O'Connell Gobarralong, Murrumbidgee River Giant's Creek Marra Creek, near Butterbone, Warren to Mo Harris Molonglo River, at Foxlow MeIntyre River, at Inverell Namoi River, at Walgett Swan Hill Swan Hill—Caretaker's cottage Seven Hills—No. 1, near Station Seven Hills—No. 2, near Station Tantawanglo River Tenterfield Creek, Manners-street, Tenterfield Victoria, East Maitland, Wallis Creek Warrambool (3), Walget towards Brewarrina Windsor—Raising Bargo River, Main South Road Borow Bridge, Main South Road	co	nstrue-	Revenue.	22	**********	37 17 4	37 17
Warren, Macquarie River Adelong Creek, at Moore's Crossing Bogan River, at Monkey Blaxland's Crossing, Nepean River Cuttaburra Creek (3) Colombo Creek Cooradigbee Creek. Culgoa River, at Weilmoringle Denison Bridge, Bathurst—Protection of river b Edwards' River, Deniliquin Ellenborugh River Fall's Creek Fish River, at O'Connell Gobarralong, Murrumbidgee River Giant's Creek, Marra Creek, near Butterbone, Warren to Mo Harris Molonglo River, at Foxlow McIntyre River, at Inverell Namoi River, at Walgett Swan Hill Swan Hill—Caretaker's cottage Seven Hills—No. 1, near Station Seven Hills—No. 2, near Station Tantawanglo River Tenterfield Creek, Manners-street, Tenterfield Victoria, East Maitland, Wallis Creek Warrambool (3), Walget towards Brewarrina Windsor—Raising Bargo River, Main South Road Borow Bridge, Main South Road Borow Bridge, Main South Road Borow Bridge, Main South Boad Borow Bridge, Main South Boad Borow Creek, Possum Shoot to Brooklett. Coalbaggie Creek, Dubbo, Coonamble to Collie Deep Oreek, Moonee to Congarini		tion.		1895	*********	5 ² 3 0 5 0 14 0	55 0
mara Creek, near Butterbone, Warren to Mc Harris Molonglo River, at Foxlow Molonglo River, at Walgett Molonglo River, at Foxlow Molonglo River, at Inverell Namoi River, at Walgett Seven Hills—No. 1, near Station Seven Hills—No. 2, near Station Tantawanglo River Tenterfield Creek, Manners-street, Tenterfield Victoria, East Maitland, Wallis Creek Warrambool (3), Walget towards Brewarrina Windsor—Raising Bargo River, Main South Road Borow Bridge, Main South Road Borow Creek, Possum Shoot to Brooklett. Coalbaggie Creek, Dubbo, Coonamble to Collie	100			1896	**********	36 8 0	36 8
Blaxland's Crossing, Nepean River. Cuttaburra Creek (3) Colombo Creek Cooradigbee Creek. Culgoa River, at Weilmoringle Denison Bridge, Bathurst—Protection of river b Edwards' River, Deniliquin Ellenborough River Fall's Creek Fish River, at O'Connell Gobarralong, Murrumbidgee River. Giant's Creek, Marra Creek, near Butterbone, Warren to Mo Harris Molonglo River, at Foxlow MeIntyre River, at Inverell. Namoi River, at Walgett Swan Hill Swan Hill—Caretaker's cottage Seven Hills—No. 1, near Station. Seven Hills—No. 2, near Station. Tantawanglo River Tenterfield Creek, Manners-street, Tenterfield. Victoria, East Maitland, Wallis Creek Warrambool (3), Walget towards Brewarrina. Windsor—Raising Bargo River, Main South Road Borow Bridge, Main South Road Borow Bridge, Main South Road Borow Creek, Possum Shoot to Brooklett. Coalbaggie Creek, Dubbo, Coonamble to Collie				52	821 19 5		821 19
Cottaburra Creek (3) Colombo Creek Cooradigbee Creek. Culgoa River, at Weilmoringle Demison Bridge, Bathurst—Protection of river b Edwards' River, Deniliquin Ellenborough River Fall's Creek Fish River, at O'Connell Gobarralong, Murrumbidgee River. Giant's Creek, Marra Creek, near Butterbone, Warren to Mo Harris Molonglo River, at Foxlow McIntyre River, at Inverell. Namoi River, at Walgett Swan Hill Swan Hill—Caretaker's cottage Seven Hills—No. 1, near Station. Seven Hills—No. 2, near Station. Tantawanglo River Tenterfield Creek, Manners-street, Tenterfield. Victoria, East Maitland, Wallis Creek Warrambool (3), Walget towards Brewarrina. Windsor—Raising Bargo River, Main South Road Borow Bridge, Main South Road Borow Bridge, Main South Road Borow Bridge, Main South Boad Byron Creek, Possum Shoot to Brooklett. Coalbaggie Creek, Dubbo, Coonamble to Collie				1895	1,332 18 1		949 2 1,332 18
Colombo Creek Cooradigbee Creek Cologoa River, at Weilmoringle Denison Bridge, Bathurst—Protection of river b Edwards' River, Deniliquin Ellenborough River Fall's Creek Fish River, at O'Connell Gobarralong, Murrumbidgee River Giant's Creek Marra Creek, near Butterbone, Warren to Mc Harris Molonglo River, at Foxlow McIntyre River, at Inverell Namoi River, at Walgett Swan Hill Swan Hill—Caretaker's cottage Seven Hills—No. 1, near Station Seven Hills—No. 2, near Station Tantawanglo River Tenterfield Creek, Manners-street, Tenterfield Victoria, East Maitland, Wallis Creek Warrambool (3), Walget towards Brewarrina Windsor—Raising Bargo River, Main South Road Borow Bridge, Main South Road Borow Bridge, Main South Road Borow Bridge, Main South Road Borow Creek, Possum Shoot to Brooklett. Coalbaggie Creek, Dubbo, Coonamble to Collie				1090	1,332 18 1 2,064 13 7	**********	2,064 13
Culgoa River, at Weilmoringle Demison Bridge, Bathurst—Protection of river b Edwards' River, Deniliquin Ellenborough River Fall's Creek Fish River, at O'Connell Gobarralong, Murrumbidgee River Giant's Creek, Marra Creek, near Butterbone, Warren to Mo Harris Molonglo River, at Foxlow MeIntyre River, at Inverell Namoi River, at Walgett Swan Hill Swan Hill—Caretaker's cottage Seven Hills—No. 1, near Station Seven Hills—No. 2, near Station Tantawanglo River Tenterfield Creek, Manners-street, Tenterfield Victoria, East Maitland, Wallis Creek Warrambool (3), Walget towards Brewarrina Windsor—Raising Bargo River, Main South Road Borow Bridge, Main South Road Byron Creek, Possum Shoot to Brooklett. Coalbaggie Creek, Dubbo, Coonamble to Collie Deep Oreek, Moonee to Congarini				33	576 2 10		576 2
menison Bridge, Bathurst—Protection of river be Edwards' River, Deniliquin Ellenborough River Fall's Creek Fish River, at O'Connell Gobarralong, Murrumbidgee River Giant's Creek Marra Creek, near Butterbone, Warren to Mother Harris Molonglo River, at Foxlow MeIntyre River, at Inverell Namoi River, at Walgett Swan Hill Swan Hill—Caretaker's cottage Seven Hills—No. 1, near Station Seven Hills—No. 2, near Station Tantawanglo River Tenterfield Creek, Manners-street, Tenterfield Victoria, East Maitland, Wallis Creek Warrambool (3), Walget towards Brewarrina Windsor—Raising Bargo River, Main South Road Borow Bridge, Main South Road				1895	822 4 11		599 19 822 4
methodology River, Deniliquin methodology River methodology River methodology River methodology River methodology River, at O'Connell methodology River, at O'Connell methodology River, at Butterbone, Warren to Mo methodology River, at Foxlow methodology River, at Inverell methodology River, at Inverell methodology River, at Walgett methodology River, at Walgett methodology River, at Walget methodology River, at Walget methodology River meth	ink			1895	1,591 0 0		1,175 5
"Fall's Creek "Fish River, at O'Connell "Gobarralong, Murrumbidgee River "Giant's Creek. "Marra Creek, near Butterbone, Warren to McHarris "Molonglo River, at Foxlow "McIntyre River, at Inverell. "Namoi River, at Walgett. "Swan Hill "Swan Hill—Caretaker's cottage. "Seven Hills—No. 1, near Station. "Seven Hills—No. 2, near Station. "Tantawanglo River. "Tenterfield Creek, Manners-street, Tenterfield. "Victoria, East Maitland, Wallis Creek. "Warrambool (3), Walget towards Brewarrina. "Windsor—Raising. "Bargo River, Main South Road. "Borow Bridge, Main South Road. "Borow Bridge, Main South Road. "Byron Creek, 'Possum Shoot to Brooklett "Coalbaggie Creek, Dubbo, Coonamble to Collie				22	3,845 6 2		11 18
Giant's Creek. Giant's Creek. Marra Creek, near Butterbone, Warren to Moharris Molonglo River, at Foxlow MeIntyre River, at Inverell. Namoi River, at Walgett. Swan Hill. Swan Hill. Swan Hill. Seven Hills—No. 1, near Station. Seven Hills—No. 2, near Station. Tantawanglo River Tenterfield Creek, Manners-street, Tenterfield. Victoria, East Maitland, Wallis Creek. Warrambool (3), Walget towards Brewarrina. Windsor—Raising. Bargo River, Main South Road Borow Bridge, Main South Road				1896	1,796 4 10 866 2 8	************	1,660 8
Gobarralong, Murrumbidgee River				3)	1,463 17 11		1,463 17
,, Marra Creek, near Butterbone, Warren to Mc Harris ,, Molonglo River, at Foxlow , McIntyre River, at Inverell , Namoi River, at Walgett , Swan Hill , Swan Hill—Caretaker's cottage , Seven Hills—No. 1, near Station , Seven Hills—No. 2, near Station , Tantawanglo River , Tenterfield Creek, Manners-street, Tenterfield , Victoria, East Maitland, Wallis Creek , Warrambool (3), Walget towards Brewarrina , Windsor—Raising , Bargo River, Main South Road , Borow Bridge, Main South Road , Byron Creek, Possum Shoot to Brooklett , Coalbaggie Creek, Dubbo, Coonamble to Collie , Deep Oreek, Moonee to Congarini				33	1,877 9 7		1,877 9
Harris Molonglo River, at Foxlow McIntyre River, at Inverell Namoi River, at Walgett Swan Hill Swan Hill—Caretaker's cottage Seven Hills—No. 1, near Station Seven Hills—No. 2, near Station Tantawanglo River Tenterfield Creek, Manners-street, Tenterfield. Victoria, East Maitland, Wallis Creek Warrambool (3), Walget towards Brewarrina. Windsor—Raising Bargo River, Main South Road Borow Bridge, Main South Road Borow Bridge, Main South Road Byron Creek, Possum Shoot to Brooklett. Coalbaggie Creek, Dubbo, Coonamble to Collie Deep Oreek, Moonee to Congarini				22	652 2 11	***************************************	652 2
, McIntyre River, at Inverell. , Namoi River, at Walgett. , Swan Hill , Swan Hill—Caretaker's cottage , Seven Hills—No. 1, near Station. , Seven Hills—No. 2, near Station. , Tantawanglo River , Tenterfield Creek, Manners-street, Tenterfield. , Victoria, East Maitland, Wallis Creek , Warrambool (3), Walget towards Brewarrina. , Windsor—Raising. , Bargo River, Main South Road , Borow Bridge, Main South Road , Byron Creek, Possum Shoot to Brooklett. , Coalbaggie Creek, Dubbo, Coonamble to Collie , Deep Oreek, Moonee to Congarini				1895	1,125 14 9	***********	1,105 11
, Namoi River, at Walgett , Swan Hill , Swan Hill—Caretaker's cottage , Seven Hills—No. 1, near Station , Seven Hills—No. 2, near Station , Tantawanglo River , Tenterfield Creek, Manners-street, Tenterfield , Victoria, East Maitland, Wallis Creek , Warrambool (3), Walget towards Brewarrina , Windsor—Raising , Bargo River, Main South Road , Borow Bridge, Main South Road , Byron Creek, Possum Shoot to Brooklett , Coalbaggie Creek, Dubbo, Coonamble to Collie , Deep Oreek, Moonee to Congarini				1896	1,695 9 8	OCCUPATION OF	1,695 9
" Swan Hill " Swan Hill—Caretaker's cottage " Seven Hills—No. 1, near Station " Seven Hills—No. 2, near Station " Tantawanglo River " Tenterfield Creek, Manners-street, Tenterfield " Victoria, East Maitland, Wallis Creek " Warrambool (3), Walget towards Brewarrina " Windsor—Raising " Bargo River, Main South Road " Borow Bridge, Main South Road " Byron Creek, 'Possum Shoot to Brooklett " Coalbaggie Creek, Dubbo, Coonamble to Collie " Deep Creek, Moonee to Congarini				1891	10,354 5 8 3,239 4 0	***************************************	2,145 19
"", Seven Hills—No. 1, near Station "Seven Hills—No. 2, near Station "Tantawanglo River "Tenterfield Creek, Manners-street, Tenterfield." "Victoria, East Maitland, Wallis Creek "Warrambool (3), Walget towards Brewarrina." "Windsor—Raising "Bargo River, Main South Road "Borow Bridge, Main South Road "Borow Bridge, Main South Road "Byron Creek, Possum Shoot to Brooklett "Coalbaggie Creek, Dubbo, Coonamble to Collie Deep Creek, Moonee to Congarini "Deep Creek, Potence Britannia				1892	8,720 3 6	***************************************	2,498 9
"", Seven Hills—No. 2, near Station "Tantawanglo River "Tenterfield Creek, Manners-street, Tenterfield.", Victoria, East Maitland, Wallis Creek "Warrambool (3), Walget towards Brewarrina.", Windsor—Raising "Bargo River, Main South Road "Borow Bridge, Main South Road "Byron Creek, Possum Shoot to Brooklett "Coalbaggie Creek, Dubbo, Coonamble to Collie "Deep Creek, Moonee to Congarini "Deep Creek, Moonee to Congarini	****			1896	159 10 0 315 4 6		315 4
Tantawanglo River Tenterfield Creek, Manners-street, Tenterfield. Victoria, East Maitland, Wallis Creek Warrambool (3), Walget towards Brewarrina. Windsor—Raising Bargo River, Main South Road Borow Bridge, Main South Road Byron Creek, 'Possum Shoot to Brooklett Coalbaggie Creek, Dubbo, Coonamble to Collie Deep Creek, Moonee to Congarini				33	315 4 6 215 5 8	**************	315 4
Wirdoria, East Maitland, Wallis Creek	(K) 11			22	1,240 9 0	***********	1,240 9
,, Warrambool (3), Walget towards Brewarrina , ,, Windsor—Raising ,, Bargo River, Main South Road ,, Borow Bridge, Main South Road ,, Byron Creek, Possum Shoot to Brooklett ,, Coalbaggie Creek, Dubbo, Coonamble to Collie , ,, Deep Creek, Moonee to Congarini				1894	3,915 13 11		438
", Windsor—Raising ", Bargo River, Main South Road ", Borow Bridge, Main South Road ", Byron Creek, 'Possum Shoot to Brooklett ", Coalbaggie Creek, Dubbo, Coonamble to Collie ", Deep Creek, Moonce to Congarini ", Deep Creek, Moonce to Congarini				1896	1,190 11 10	100000000000000000000000000000000000000	1,190 11
Borow Bridge, Main South Road Byron Creek, 'Possum Shoot to Brooklett Coalbaggie Creek, Dubbo, Coonamble to Collie Deep Creek, Moonee to Congarini				1895	2,220 0 0		1,630 10
", Byron Creek, 'Possum Shoot to Brooklett", ", Coalbaggie Creek, Dubbo, Coonamble to Collie ", Deep Creek, Moonee to Congarini				1896	**********	19 5 0	
,, Coalbaggie Creek, Dubbo, Coonamble to Collie Deep Creek, Moone to Congarini				33		10 8 0	
Dunmana Patawan Piran	144		The state of	22	*********	114 0 0	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
)) Louisticie, Laterson Liver				3.2		0 7 6 81 5 4	0 '
" Gundagai—Reconstruction				33	*********	6,148 0 3	1
" Kangaroo River, Moss Vale				1895	**********	5,956 5 1	4,966 5
,, Kempsey, Macleay River			18 4	1896	***********	3,936 8 6	
" Morpeth, Hunter River " Melville Ford				1 1895	*************	3,936 8 6	650 15

Work, and where situated.	Whether Constructing or under Repair.	Fund from which the Expense is defrayed.	When Com- menced	If Finished, actual amount of Expenditure.	If Unfinished, amount of Expenditure to 30 June, 1897.	Amount expended from 1 July, 1856, to 30 June, 1897.
BRIDGES—continued. Bridge, Molongo River, at Burbong	Maintenance, repair, and construction.	Loans and Con- solidated Revenue.	1896 "" 1891 1896 "" "" "" 1895 1896	£ s. d.	£ s. d. 5 4 5 776 12 9 27 19 9 151 8 5 22 11 11 2,167 12 5 398 16 9 3,070 4 8 123 18 0 6 10 0 1 7 10 251 2 4 2 6 10 12 2 0 86 9 7 441 5 0 2,766 12 7 1,920 5 9 2,370 6 9	
Totals				107,762 18 8	7,102,688 19 11	676,209 19 2

SUMMARY OF EXPENDITURE FROM 1ST JULY, 1896, TO 30TH JUNE, 1	897.		
	£	8.	d.
Loans	54,261	I	11
Revenue	620,180	2	IO
Services for other Departments	1,768	14	5
TOTAL	£6=6 200	***	-

ROADS AND BRIDGES EXPENDITURE.

	Year.	Expendit by Officers Departme	of		Expendit by Trustee			Expenditure by Municipalities.	Total.		
		£	s.	d.	£	8.	d.	£ 2. d.	£	8,	, d
857 858		} 100,000	0	0	*********				100,000	0	0
11/10/20		46,621	16	TO					46,621	76	TO
859	***************************************	114,585		The same of	*******			************	114,585		
861		199,208	1	5	*******			*************	199,208		10
862		85,641					0	***************************************	135,641	4	
	***************************************		4	0	50,000	0		***** ********	224,497	7	4
863	***************************************	154,497	7	4	70,000	0	0	***********	255,248	3	- 10
864		185,248	75	II	70,000	0	0	***********	154,689	4	
865		123,867	4	8	30,822	0	0	************	148,806		8
866		109,075	12	-	39.731	0	0	***********	0.4		6
867	***************************************	24.44	14	6	38,667	0	0	************	186,417	2.000	
868	***************************************	140,086	10	4	36,923	0	0	**********	177,009		4
869		152,323	5	0	40,802	0	0	***********	193,125	5 2	4
870		141,863	2	4	40,336	0	0	************	182,199		4
871		182,726	II	0	40,501	0	0	***********	178,085	II	è
872	***************************************	144,257	5	6	34,728	0	0	***************************************	E	5	
873	***************************************	247,858	9	0	36,098	0	0	**********	283,956	9	
574	***************************************	257,366	5	8	41,524	0	0	************	298,890	5	
875		356,002	10	0	45,564	0	0	**********	401,566		
376		366,802	14	0	37,153	0	0	***************************************	403,955		-
377	***************************************	413,625	4	8	51,550	0	0	***************************************	465,175	4	
878	***************************************	497,032	17	5	24,280	0	0	*************	521,312		
879	***************************************	649,773	II	5	25,428	0	0	******	675,201		
880	***************************************	614,708	11	3	28,800	0	0	*********	643,508		
881		484,567	2	8	23,186	0	0		507,753	2	
882	***************************************	577,212	4	1	24,722	0	0	333 141 (111 111 118	601,934		
883	***********************************	613,847	I	6	24,938	0	0	***********	638,785	I	
884		750,584		10	27,722	0	0	**********	778,306		
885		800,962	5	II	24,404	0	0	397999-4999999	825,366		
886		628,379	4	5	28,414	0	4	3 *********	656,793	4	
387		721,993			45,433	1	3	***********	767,426	100	
888	***************************************	663,928			31,503	0	0	***********	695,431		
389	***************************************	632,397			31,361	0	0	***********	663,758	10	1
890	***************************************	770,808			34,500	0	0	************	805,308		
168		965,687			31,990	0	0	***********	997,677		
892		859,027	1,790		30,605	0	0	**********	889,632	-	
893		676,233	1	8	30,330	0	0		706,563		
The second	to 30th June, 1895 (18 months)	800,620	2	9	30,034	0	0		830,654		
895-		729,544	100		19,285	0	0	27,570 11 11	776,400		5
896-	7	588,910	7	1	9,910	1	10	77,389 10 3	676,209	19	1
	Grand total	16,695,628	3	9	1,231,244	3	5	104,960 2 2	18,031,832	9	

^{*} Approximate.

STATEMENT of Loans and Revenue Expenditure from year 1888.

Year.	Loans			Revent	1e.		Services for other Departments.	Total		
888	£ 8,656 5,597 21,970 67,349 82,327 56,266 33,061 38,575 54,261	4 9 10 4 5 19 13 9	II	£ 686,775 658,161 783,338 930,328 807,305 650,296 797,592 737,824 620,180	10 18 10 8 10 18	0 0 3 11 6	£ s. d.	£ 695,431 663,758 805,308 997,677 889,632 706,563 830,654 776,400 676,209	14 10 18 14 13 1 2	111 8 9 9
	368,066	0	3	6,671,802	10	1	1,768 14 5	7,041,637	4	9

ACCOUNTS BRANCH.

RETURN of Expenditure on Municipal Roads, and of Special Subsidies granted to Municipalities.

		You was a second		1 /	
Municipality.	Main and other Roads.	Extension of Minor Roads.	Unclassified Roads.	Special Subsidy— 5s. in £ on General Rates.	Totals.
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s.
Armidale	42 10 0	46 0 0			88 10
Annandale			***********************	607 15 6	607 15
Ashfield		******	***************************************		
		The second secon			1,691 15
Albury		47 0 0	***********	480 0 0	527 0
Alexandria	************	************	***************************************	719 2 6	719 2
Auburn	***********	************	***********	330 10 6	330 10
damstown		7 0 0	**********	92 15 3	99 15
Aberdeen	24 16 6	13 0 0		76 1 9	113 18
Burwood			- CONTRACTOR AND		
			*************		910 17
Bankstown				77 8 6	77 8
Bathurst	***********	35 0 0		641 3 6	677 3
Balmain	**********	*************		2,428 15 9	2,428 15
Blayney	50 18 4	66 0 0		104 0 0	220 18
Botany North				208 18 6	208 18
	***************************************		************		
Serry	************	31 0 0	**********	221 7 0	252 7
Broughton Vale	*************	************	******	41 7 6	41 7
Balranald	***********	15 0 0		74 0 0	89 0
Ballina	101 I 6	148 0 0	******************	85 14 9	334 16
Bourke		18 0 0		338 I 6	356 1
					-
Broken Hill				1,420 15 0	1,420 15
Singera	***********	************	**********	48 12 0	48 12
urrowa	***************************************	38 0 0		90 14 3	128 14
Sega	33 O IO	66 0 0	10 0 0	173 12 6	282 13
Bowral	111	60 0 0		200 18 9	260 18
Braidwood					
	***********	70 15 10	************	118 16 10	189 12
ombala		37 0 0	*******	54 13 0	91 13
otany	************	************		212 6 3	212 6
amden	*************	90 0 0	900	115 0 0	214 0
astlereagh		236 0 0	75 0 0	30 13 3	341 13
	136 18 8				0
udgegong		500 0 0	******* ******	182 11 6	819 10
oncord	*** . * * * * * * * * * * * * * * * * *	***********	************	299 14 0	299 14
ooma	50 9 2	228 0 0	***********	107 5 6	385 14
arcoar	***************************************	************	***********	33 I O	33 I
ampbelltown		63 0 0	**********	Division in the second	144 13
interbury	210 0 0	************	**********	261 12 3	501 12
imperdown	***********		***********	500 11 6	500 11
asino	182 0 10	269 0 0	************	111 18 9	562 19
bar	************	35 0 0	************	127 3 0	162 3
oonamble	************	52 0 0	*********	139 12 5	191 12
owra	56 1 2	116 0 0		6	
			*************		370 10
ondobolin		100 0 0		83 1 0	183 1
ootamundra	************	40 0 0	************	251 12 6	291 12
oraki	************	46 0 0	*************	53 8 6	99 3
abramatta and Canley Vale	39 0 0	28 0 0	************	60 I O	127 1
arrington		*************		219 10 9	219 10
udal					
		93 0 0	************		01
ubbo	7 15 1	26 0 0	*************	281 13 6	315 8
rummoyne	************	************	***********	298 6 0	298 6
arlington	*************	***************************************	*************	291 8 9	291 8
undas	86 13 4		***************************************	95 10 9	182 4
eniliquin		140 0 0		225 6 6	365 6
ungog	************	82 19 6	***********	74 6 3	157 5
nfield		***********	***********	200 5 9	200 5
rskineville	**********	*************	***************************************	435 7 6	435 7
rmington and Rydalmere	***************************************	**************		67 7 6	67 7
orbes	175 0 0	140 0 0	***************************************	272 15 3	. 587 15
airfield and Smithfield					
	************			99 13 0	99 13
ve Dock		*******	**********	88 6 6	88 6
len Innes	346 19 1	55 0 0	60 0 0	240 17 3	702 16
lebe	***************************************			1,913 7 3	1,913 7
oulburn	125 15 0	70 0 0		786 18 0	982 13
rafton	62 8 7	68 0 0		414 2 0	544 10
renfell	10 0 0		- Indiana and a second	76 15 0	
onnin mon a		13 0 0	*************		99 15
erringong	280 18 4			120 6 6	401 4
algong	47.77	274 12 6		111 4 9	385 17
	41 13 4	43 0 0	************	597 3 3 155 18 3	681 16
		20 0 0	***************************************	155 18 3	185 18
unnedah	************	30 0 0			150 12
unnedah				00 10 0	
nnnedaheta	49 13 2	12 0 0		88 19 0	
unnedah	49 13 2	12 0 0 65 0 0		41 16 6	106 16
unnedah reta osford urstville	49 13 2	12 0 0 65 0 0		41 16 6 485 16 6	106 16 923 6
nnedah reta. seford. urstville. unter's Hill	49 13 2	12 0 0 65 0 0		41 16 6 485 16 6 361 9 7	106 16 923 6 361 9
nnedah eta. psford unstville unter's Hill	49 13 2	12 0 0 65 0 0		41 16 6 485 16 6 361 9 7 62 11 0	106 16 923 6
annedah reta. seford. urstville unter's Hill	49 13 2	12 0 0 65 0 0		41 16 6 485 16 6 361 9 7	106 16 923 6 361 9
nnedah eta. psford mrstville unter's Hill llston	49 13 2	12 0 0 65 0 0		41 16 6 485 16 6 361 9 7 62 11 0 393 7 0	106 16 923 6 361 9 114 11 395 7
nnnedah reta. osford urstville unter's Hill illston amilton	49 13 2	52 0 0 44 0 0		41 16 6 485 16 6 361 9 7 62 11 0 393 7 0 292 14 3	106 16 923 6 361 9 114 11 395 7 336 14
unnedah reta. posford. urstville. unter's Hill illston amilton	49 13 2	52 0 0 44 0 0 14 8 3		41 16 6 485 16 6 361 9 7 62 11 0 395 7 0 292 14 3 34 8 0	106 16 923 6 361 9 114 11 395 7 336 14 48 16
unnedah reta. osford. urstville. unter's Hill illston amilton ay ull End	49 13 2	52 0 0. 44 0 0 14 8 3 367 2 6		41 16 6 485 16 6 361 9 7 62 11 0 395 7 0 292 14 3 34 8 0 219 2 6	106 16 923 6 361 9 114 11 395 7 336 14 48 16 586 5
unnedah reta. osford. urstville unter's Hill illston amilton ay ill End verell.	49 13 2	52 0 0 44 0 0 14 8 3		41 16 6 485 16 6 361 9 7 62 11 0 395 7 0 292 14 3 34 8 0	106 16 923 6 361 9 114 11 395 7 336 14 48 16
unnedah reta. osford. urstville unter's Hill illston amilton ay ill End uverell.	49 13 2	52 0 0 52 0 0 14 8 3 367 2 6 17 0 0		41 16 6 485 16 6 361 9 7 62 11 0 395 7 0 292 14 3 34 8 0 219 2 6 139 11 9	106 16 923 6 361 9 114 11 395 7 336 14 48 16 586 5
unnedah reta. osford. urstville unter's Hill illston amilton ay ill End verell lawarra North	49 13 2	52 0 0 65 0 0 		41 16 6 485 16 6 361 9 7 62 11 0 395 7 0 292 14 3 34 8 0 219 2 6 139 11 9 342 2 9	106 16 923 6 361 9 114 11 395 7 336 14 48 16 586 5 156 11 342 2
unnedah reta. osford. urstville unter's Hill illston amilton ay ill End werell awarra North lawarra Central rilderie	49 13 2	52 0 0 52 0 0 14 8 3 367 2 6 17 0 0		41 16 6 485 16 6 361 9 7 62 11 0 395 7 0 292 14 3 34 8 0 219 2 6 139 11 9 342 2 9 96 12 0	106 16 923 6 361 9 114 11 395 7 336 14 48 16 586 5 156 11 342 2 210 6
unnedah reta. reta. osford. urstville unter's Hill illston amilton ay ill End uverell. lawarra North lawarra Central rilderie	49 13 2	12 0 0 65 0 0 		41 16 6 485 16 6 361 9 7 62 11 0 395 7 0 292 14 3 34 8 0 219 2 6 139 11 9 342 2 9 96 12 0 256 3 6	106 16 923 6 361 9 114 11 395 7 336 14 48 16 586 5 156 11 342 2 210 6 286 3
unnedah reta. reta. osford. urstville. unter's Hill illston amilton ay ill End verell. lawarra North lawarra Central rilderie unee umberoo	49 13 2	52 0 0 52 0 0 14 8 3 367 2 6 17 0 0	113 O O	41 16 6 485 16 6 361 9 7 62 11 0 395 7 0 292 14 3 34 8 0 219 2 6 139 11 9 342 2 9 96 12 0 256 3 6 179 15 0	106 16 923 6 361 9 114 11 395 7 336 14 48 16 586 5 156 11 342 2 210 6 286 3 505 15
unnedah reta. osford. urstville. unter's Hill illston amilton ay ill End verell. awarra North awarra Central rinee mberoo	49 13 2	12 0 0 65 0 0 		41 16 6 485 16 6 361 9 7 62 11 0 395 7 0 292 14 3 34 8 0 219 2 6 139 11 9 342 2 9 96 12 0 256 3 6	106 16 923 6 361 9 114 11 395 7 336 14 48 16 586 5 156 11 342 2 210 6 286 3
unnedah reta. reta. osford. urstville unter's Hill illston amilton asy ill End uverell lawarra North lawarra Central rrilderie unee umberoo atoomba.	49 13 2	52 0 0 65 0 0 	113 0 0 211 19 4	41 16 6 485 16 6 361 9 7 62 11 0 395 7 0 292 14 3 34 8 0 219 2 6 139 11 9 342 2 9 96 12 0 256 3 6 179 15 0 148 5 6	106 16 923 6 361 9 114 11 395 7 336 14 48 16 586 5 156 11 342 2 210 6 286 3 505 15 448 5
unnedah reta. osford. urstville unter's Hill illston amilton ay ill End uverell. lawarra North lawarra Central critderie anee unberoo atoomba. iama	49 13 2	52 0 0. 52 0 0. 44 0 0 14 8 3 367 2 6 17 0 0 113 14 6 30 0 0 213 0 0	113 0 0 211 19 4	41 16 6 485 16 6 361 9 7 62 11 0 395 7 0 292 14 3 34 8 0 219 2 6 139 11 9 342 2 9 96 12 0 256 3 6 179 15 0 148 5 6 149 14 6	106 16 923 6 361 9 114 11 395 7 336 14 48 16 586 5 156 11 342 2 210 6 286 3 505 149 14
unnedah reta osford urstville unter's Hill illston amilton ay ill End uverell lawarra North lawarra Central rrilderie unee umberoo atoomba iama ogarah	49 I3 2 437 I0 0	52 0 0. 52 0 0. 44 0 0 14 8 3 367 2 6 17 0 0. 113 14 6 30 0 0 213 0 0	113 0 0 211 19 4	41 16 6 485 16 6 361 9 7 62 11 0 395 7 0 292 14 3 34 8 0 219 2 6 139 11 9 342 2 9 96 12 0 256 3 6 179 15 0 148 5 6 149 14 6 450 7 9	106 16 923 6 361 9 114 11 395 7 336 14 48 16 586 5 156 11 342 2 210 6 286 3 505 15 149 14 658 14
ranville unnedah reta osford. furstville unter's Hill fillston amilton ay ill End uverell lawarra North lawarra Central erilderie ennee amberoo atoomba iama ogarah empsey	49 13 2 437 10 0	52 0 0 65 0 0 	113 0 0 211 19 4	41 16 6 485 16 6 361 9 7 62 11 0 395 7 0 292 14 3 34 8 0 219 2 6 139 11 9 342 2 9 96 12 0 256 3 6 179 15 0 148 5 6 149 14 6 450 7 9 129 5	106 16 923 6 361 9 114 11 395 7 336 14 48 16 586 5 156 11 342 2 210 6 286 3 505 15 448 5 448 5 448 5 448 5 448 5
unnedah reta reta osoford. urstville unter's Hill illston amilton ay ill End overell. lawarra North lawarra Central erilderie onee amberoo atoomba iama oogarah empsey iverpool	49 I3 2 437 I0 0	52 0 0. 52 0 0. 44 0 0 14 8 3 367 2 6 17 0 0. 113 14 6 30 0 0 213 0 0	113 0 0 211 19 4	41 16 6 485 16 6 361 9 7 62 11 0 395 7 0 292 14 3 34 8 0 219 2 6 139 11 9 342 2 9 96 12 0 256 3 6 179 15 0 148 5 6 149 14 6 450 7 9 129 5 0 222 6 6	106 16 923 6 361 9 114 11 395 7 336 14 48 16 586 5 156 11 342 2 210 6 286 3 505 15 448 5 149 14 658 14 282 5 249 6
unnedah reta reta vosford urstville unter's Hill illston amilton as ill End verell lawarra North lawarra Central erilderie nnee amberoo atoomba iama ogarah empsey	49 13 2 437 10 0	52 0 0 65 0 0 	113 0 0 211 19 4	41 16 6 485 16 6 361 9 7 62 11 0 395 7 0 292 14 3 34 8 0 219 2 6 139 11 9 342 2 9 96 12 0 256 3 6 179 15 0 148 5 6 149 14 6 450 7 9 129 5	106 16 923 6 361 9 114 11 395 7 336 14 48 16 586 5 156 11 342 2 210 6 286 3 505 15 448 5 448 5 448 5 448 5 448 5

RETURN of Expenditure on Municipal Roads—continued.

Municipality.	Main and other Reads,	Extension of Minor Roads,	Unclassified Roads.	Special Subsidy— 5s. in £ on General Rates.	Totals.
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s.
ismore	163 2 1	385 0 0	************	229 11 6	777 13
eichhardtambton	35 0 0	***************************************	***********	1,138 4 0	1,173 4
ambton, New	************	10 0 0	***********	72 4 3	82 4
Iuswellbrook	20 75 70	25 0 0	· · · · · · · · · · · · · · · · · · ·	84 3 9	109 3
Larsfield	29 15 10	10 0 0	*************	153 15 3	193 11
Iorpeth	212 5 5	20 0 0		01 14 0	61 14
aitland East	219 13 6	30 0 0 83 0 0	************	102 12 0 216 1 0	344 17
aitland West	298 1 1	45 0 0	**************	846 9 0	518 14
littagong	43 14 10	47 0 0	************	88 8 6	The second second
olong	86 11 5	60 0 0	*************	77 13 0	179 3
udgee	21 8 0	9 0 0	***************************************	145 7 9	175 15
arrickville	195 0 0		*************	1,768 16 3	1,963 16
anly	***************************************	***************************************		678 17 6	678 17
aclean		70 0 0		87 9 0	157 9
oruya	************	13 0 0		63 13 0	76 13
oree	***********	38 0 0	*************	118 2 3	156 2
urrumburrah		35 0 0		77 18 9	112 18
oss Vale		295 0 0		124 5 6	419 5
oama	*************	40 0 0	************	85 16 o	125 16
urrurrundi	38 6 8	************		55 12 6	93 19
erewether	************	8 0 0	************	209 2 9	217 2
olgoa	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	**********	************	56 9 0	56 9
osman	***********	***********	************	450 9 9	450 9
WTA	139 12 4	78 0 0		163 19 0	381 11
weastle				1,652 6 5	1,652 6
orth Sydney	88 0 10		141 11 9	2,709 8 5	2,939 I
ewtown	************		***************************************	2,047 11 0	2,047 11
arrandera	************	8 0 0	********	208 19 3	216 19
rrabri	*************	20 0 0	**********	122 13 9	142 13
rrabri West	***************************************	**********	*************	31 2 6	31 2
yngan	***************************************	***********		116 2 6	116 2
range East	20 19 2	17 0 0	***********	130 0 6	167 19
range	25 19 9	28 0 0	*************	292 16 2	346 15
onrith	40 13 3		************	196 7 6	237 0
cton	***********	25 0 0	***********	117 14 3	142 14
ospect and Sherwood	***** *******	***** ****	***********	253 16 9	253 16
rramatta	************	35 0 0	** *********	788 I 9	823 I
rt Macquarie	************	85 0 0	**********	57 12 6	142 12
rkes	***********	***********	******	166 9 0	166 9
attsburg	************	35 0 0	************	218 1 0	253 I
addington	**********	***********	***********	2,276 19 0	2,276 19
etersham	**********		*************	1,433 5 0	1,433 5
eak Hill		76 0 0		36 17 3	112 17
ueanbeyan uirindi	58 17 6	27 0 0	***********	72 16 0	158 13
ockdale	***************************************	43 0 0		104 11 6	147 11
yde	104 3 4			690 8 9	794 12
edfern	77 0 0		98 0 0	368 0 3	543 0
chmond	50 0 0	***************************************	***********	2,040 11 10	2,090 11
nymond Terrace	************	10 0 0	************	102 3 3 60 6 3	92 6
ookwood	************	32 0 0	185 19 4		
indwiek	1,225 0 0		105 19 4	1,348 19 0	427 16
ngleton South	7 18 4	8 0 0	***************************************	51 18 3	2,573 19 67 16
igleton	23 4 10	7 0 0	************	184 2 6	214 7
Peters	-3 4 -0		*************	436 14 6	436 14
one	17 9 7	12 0 0	***************************************	58 11 0	88
rathfield	., 9 /		**************	474 14 3	474 14
ellharbour	133 16 6		************	154 12 6	288 9
Marys	*33 20 0	75 0 0		57 10 2	132 10
ockton	**************	75 0 0		163 9 9	163 9
mworth	70 2 4	106 0 0		365 10 3	541 12
enterfield	310 2 2	84 0 0		152 14 9	546 16
ree		***********		55 13 9	55 13
mut		46 0 0	***********	119 9 0	165 9
mora	****** *******	80 0 0	*************	109 15 3	189 15
alla	10 0 0				10 0
ladulla	396 10 8	28 0 0		159 6 0	583 16
marra	*************	379 0 0	************	95 8 3	474 8
ucluse	35 16 8	***************************************	***********	78 15 0	114 11
ellington	51 15 5	************	************	124 16 0	176 11
arren	**********	33 0 0		105 8 6	138 8
ollongong	70 4 5	2 0 0	**********	291 12 9	363 17
averley		************		1,318 19 6	1,318 19
illoughby	***********			769 17 6	769 17
ileannia	***********	15 0 0	***********	***********	15 0
aterloo		************	************	869 19 0	869 19
agga Wagga	***********	37 0 0	*****	464 16 0	501 16
ingham		50 0 0	10 11 6	17 13 0	78 4
alcha		123 0 0		85 4 6	208 4
indsor	*************	20 0 0		157 12 6	177 12
ickham		************	174 0 0	433 7 6	607 7
		15 0 0		251 3 0	266 3
aratah	*************	7 0 0	40 0 0	63 6 6	110 6
entworth			************	206 I O	230 I
aratah Tentworth "allsend	***********	24 0 0			
Tentworth Vallsend Vallendbeen		133 0 0	***********	113 13 9	246 13
Tentworth Tallsend Tallendbeen Toollahra	**********			The second second second second	246 13 1,907 13
entworth fallsend fallendbeen oollabra	***************************************	133 0 0	************	113 13 9 1,907 13 0 166 11 9	1,907 13 294 11
entworth allsend allendbeen oollahru.		133 0 0	***************************************	113 13 9	1,907 13

(XVI.)

Roads and Bridges Yearly Statistical Report, from 1st July, 1896, to 30th June, 1897.

TABLE A.—EXTENT OF DISTRICT.

Classification.	Number.	Mileage.		
ROADS. 1. Scheduled Roads under Road Superintendent. 2. Unclassified Roads under Road Superintendent. 3. Scheduled Roads under Trustees. 4. Unclassified Roads under Trustees. 5. Roads subsidised by Department under Municipal Councils.	1,446 1,030 86 38 433	miles. 26,779 11,177 624 193 1,098	chains. 32 58 40 40 714	
Totals	3,033	39,874	11	
BRIDGES. 5. Bridges (20-ft. span and over), under care of Road Superintendent or Trustees, or built at cost of Government, on all classes of Roads, within or outside Municipal limits.	Number, 2,842 Total length o	verall, 267,964 fee	et.	
FERRIES. 7. Ferries, subsidised, leased, or worked by Department or Trustees, including emergency Punts and Boats.	No. of Punt F No. of Boat F Total No. of I Total No. of I	erries, 42. Punts, 108.		
MUNICIPALITIES. Municipalities within limits of district in receipt of subsidies, for which Road Superintendent is required to give Certificates.				

TABLE B.—CONTRACTS.

Classification.	Number.	Amount.
1. Contracts as let by Local Officers during 1896-7	3,139	£ 322,022 322,022
4. Amount of smallest Contract	3,34 ¹ 695	2,167 76/18/- 295,264 45,735

TABLE C.—ANALYSIS OF EXPENDITURE.

Inclusive of all Vouchers rendered during 1896-7, and Progress Payments on Contracts incomplete on 30th June, 1897.

	£ 120,799 16,388 5,620 3,603	Contracts.	Stores, Materials, and Sundries.*	Supervision.	Municipal Expenditure.‡	£ 492,952 123,346 43,421 10,166 6,324
Roads Bridges. Ferries Other Works		£ 242,381 95,757 1,729 518	£ 38,838 8,557 2,869 2,203	£ 13,545 2,644 43,421 8	£ 77.389	
Total Value of Vouchers, as per Voucher Register, 1st July, 1896, to 30th June, 1897.	146,410	340,385	52,407	59,618	77,389	676,209
Vouchers submitted for payment						No.

^{*} Include goods obtained under annual contracts or locally, freight, compensation, &c.
† Include engineering and travelling expenses, office and store rent, cleaning, lighting, fuel, wages, and expenses of overseers, but not wages of working foremen or gangers.
† The amount of certificates given on account of municipal subsidies.

TABLE D .- PROPORTION OF CLASSIFIED EXPENDITURE TO TOTAL EXPENDITURE.

Classified Expenditure.	Amount.	Percentage on Total Expenditure.
Wages Contracts Stores, Materials, and Sundries Supervision* Municipal	£ 146,410 340,385 52,407 59,618 77,389	21'66 50'34 7'74 8'82 11'44
Total Expenditure£	676,209	100'00

^{*} The amount will be that quoted in Table C, plus the salaries and equipment allowances paid by head office to the officers and assistants who were employed in the district during the year.

TABLE E.—TRAVELLING AND COST THEREOF, 1896-7.

Officer.		Total Amount of Travelling			
Ointer.	Road.	Rail.	Total.	Expenses Vouchers for above period.	
7. Road Superintendents 2. Assistants 3. Foremen, Overseers	262,223 100,281 43,444	73,694 24,920 2,754	335,917 125,201 46,198	£ s. d.	
Totals	405,948	101,368	507,316	6,820 14 11	

TABLE F.—LABOUR STATISTICS. (Monthly Average.)

Classification of Labour.	Permanent.	Temporary	Total.
By Department. Foremen, Overseers	37 914 99	29 179 246	66 1,093 345
Totals	1,050	454	1,504
Contractors and Contractors' Men			5,200

Table G.—Reports, Minutes, Returns, &c.

Official Papers, including Reports, Minutes, and Returns (other than Vouchers) registered from 1st July, 1896, to 30th June, 1897, number 25.347.

TABLE H .- SUMMARY OF WORK EXECUTED.

Showing Work completed (inclusive of Contracts in progress on 1st July, 1896, but not including Contracts in progress on 30th June, 1897) on Roads under Road Superintendents during the year 1st July, 1896, to 30th June, 1897, and carried out under Contract or by day-labour. Ordinary maintenance not to be included.

Class of Work.	Unit.	Scheduled Roads outside Municipality.	Scheduled Roads within Municipality.	Unclassified Roads outside Municipality.	Unclassified Roads within Municipality.	Totals.
Road construction, including formation, metal- ling, gravelling, ballasting, or corduroying,						
exclusive of clearing or draining	chains	22,808	754	1,317	10	24,880
. Formation, including cuttings, embankments, not metalled, gravelled, &c., exclusive of clear-						
ing or draining	chains	23,751	262	4,328	48	28,380
3. Clearing, any width	chains	59,715	121	23,180	15	83,03
Draining	chains	22,325	235	5,762	25	28,34
5. Maintenance metal, gravel, or ballast obtained	cub. yds.	260,247	35,819	5,200	1,857	303,12
5. First-class timber culverts	No.	75		5	********	8
. Second-class timber culverts	No.	210	4	39	********	25
3. Other timber culverts	No.	1,056	6	135	I	1,19
). Pipe culverts		233	11	33		27
causeways, any class	No.	407	4	104		51
. Stone, brick, or concrete culverts	No.	26	*******	********	I	2
walls with timber deck	No.	I	******	******		
3. 12 12 12 12 12 12 17 17 17 17 17 17 17 17 17 17 17 17 17	No.	********	********	********		**********
Fencing, split	rods	4,032	75	88	289	4,48
Ordnance fencing	rods	408	31		85	52
Bests built	No.	6	11114144	2		
Boats—new, built or supplied	No.	9	********	**********	********	6
3. Punts overhauled and repaired	No.	56	*******	4	*******	6
). Boats ,,	INO.	52		4	*******	

TABLE H .- continued.

BRIDGES CONSTRUCTED (20-ft. Span and over). Under the Superintendence of Departmental Officers.

Totals.	Details of Spans.	No.	Total Length
Number of Bridges built—			
New Bridges 71 8 124	With iron or steel superstructure, and timber or iron deck	9	238
Number of Spans of all kinds— New Bridges 227 Renewals 159 386	Timber truss approach spans to iron or steel bridges Timber truss or arched spans	377	13,245
Overall length of Bridges built— New Bridges 7,588 Renewals 5,895		386	13,483

Table I.—General Summary of Work Executed to 30th June, 1897.

Irrespective of time or date of effecting same.

			F	ROADS	3.								
Classification.	velled,	ed, Gra- Ballasted, or iroyed.	For	med.	. at	Cleared and Drained.		Cleared only.		sh or buched bad.	(of a	Mileage ill the eding mns).	
Under Road Superintendent. 1. Scheduled; outside Municipalities 2. Scheduled; within Municipalities 3. Unclassified; outside Municipalities 4. Unclassified; within Municipalities Totals	454 255 75 7,276 4	Chains. 61 50 47 69 67 78 coan).	Miles. 4,724 81 543 17 5,366	Chains 37 36 47 11 51 74	4,532 20 823 5,375	Chains. 21 8 7 5 41 53 BR	Miles. 6,379 66 1,772 12 8,230 20	Chains. 30 64 43 15 72 23	Miles. 4,728 8 7,885 8 12,631	Chains. 49 41 70 40	Miles. 26,855 630 11,280 114 38,880 43	Chains, 38 78 25 10 71 28	
Classification.	N	umber.	Total Ler in feet			Classific	ation of s	Spans.		No. Span		l Length	
Iron Decked			1,255 5,046 2,112 203,688		Iron or Steel, with Iron Deck				30	1	} 267,96		
Pipe		32,671	486,90	06	Т	otals				7,87	8	267,96	
* Length of deck, measured along line pipe culverts, which shall represent length be	of traffi	c, except	in case	of	Т	otal No	o. of Br	idges			2,842		

CAU	SEWAYS.	PUNTS, BOATS, FERRIES.									
Number.			How Worked.								
	Total Length in feet along line of traffic.	Classification.	Oars only.	Wire Rope without Gear- ing.	Hand Gear- ing and Wire Rope.	Steam Gear- ing and Wire Rope.	Total No.	Total Width between Mooring Posts.			
15,534	377,298	Iron Punts			3	7	10	feet.			
BUII	DINGS.	Timber Punts	***	16	78	***	94 I	55,457			
		Horse Boats		3	I		4	2,492			
7	1 72 13	Flood Boats, iron	9	***	I	***	10	350			
	en's, Bridge kers' or other	Ditto timber	59	***	***	***	59	1,300			
			120	***	***	**	120	600			
ings t	he property	Punt slips, for execution of repairs	***	***	47.5	***	10	******			
	Department,	Totals	188	19	83	7	308	70,973			

Sewerage Construction.

(XVII.)

Report of the Engineer for Sewerage Construction.

Department of Public Works, Sewerage Construction Branch, Sydney, 1 September, 1897.

Sir,

I have the honor to submit the following report of the operations of this Branch during the year ending 30th June, 1897.

I have classified my report as follows:-

1. High-level Sewers. 2. Low-level Sewerage.

3. Eastern Suburbs Sewerage.

4. Double Bay Low-level Sewerage.

5. North Sydney and Mosman Sewerage.6. Storm-water Channels.

7. Drainage of Country Towns.

8. Detail Survey of Cities, Towns, and Suburbs.
9. Summary of work executed in the drawing offices.

1. Western Suburbs Sewerage.

Outfall Sewer and Sewage Farm.

The main carrier on the sewage farm at Botany is now completed. This work, constructed at a cost of £19,000, is an open concrete channel 8 ft. 8 in. wide by 5 ft. 3 in. deep, extending from the outlet end of the triplicate outfall sewer, for about 40 chains across the Botany sewage farm, on a series of concrete arches of 50 feet span. The passage over Muddy Creek is effected by a wrought-iron trough bridge, and a straining chamber is introduced at each end of the line.

The preparation of filtration areas for dealing with the discharge from the western suburbs has been pushed forward. When these areas are completed, which will be in a few months, the disposal of the sewage can be commenced, and the whole system put into operation. This work is being performed by day, labour

by day-labour.

Main Eastern Branch.

This sewer, extending from Premier-street, Marrickville, passing along the Illawarra-road to the Parramatta-road, near Stanmore station, is now ready for the reticulation connections, the last section to Annandale, 1 mile 15 chains in length, consisting of an oval sewer varying in size from 4 ft. 3 in. x 3 ft. 3 in. to 3 ft. 3 in. x 2 ft. 2 in., and subsidiary pipe lines, having just been completed. An outlet has thus been provided for the sewage of an extensive portion of the Boroughs of Annandale, Leichhardt, Petersham, and Marrickville.

Main Northern Branch.

This sewer, from the Illawarra-road, Marrickville, to the northern end of Leichhardt, is in course of construction. Contracts have been let for the three sections of the main line, consisting of an oval sewer of brick and concrete, length 3 miles 35 chains, decreasing in size from 5 ft. 6 in. x 4 ft. 6 in. at the Illawarra-road, to 3 ft. 3 in. x 2 ft. 2 in. at its head near the Leichhardt Park. This sewer will drain the higher portion of Marrickville, Petersham, and the western side of Leichhardt. A tender has been the higher portion of Marrickville, Petersham, and the western side of Leichbardt. A tender has been accepted for the construction of the Dobroyd Branch, which leaves the main branch at Fraser-street, Petersham, a few chains south of the suburban railway line, and extends to Sloane-street, Summerhill, passing under the railway embankment on the Sydney side of the Lewisham railway viaduct, and over the Long Cove Creek Storm-water Channel by means of steel tubing supported by stone piers, the aqueduct being 280 feet long. The size of the sewer is 4 ft. 6 in. x 3 ft. 6 in. at the junction with the main branch, and 3 ft. 6 in. x 2 ft. 4 in. at Sloane-street, and the length is about 58 chains. A line of sewer has been set out leaving the Dobroyd Branch near the aqueduct over Long Cove Creek, and running up the valley almost parallel to the storm-water channel as far as Pigott-street. This sewer will be partly in 3 ft. 3 in. x 2 ft. 2 in. concrete, and partly in 21-inch pipe. These two sewers are designed to drain the whole of Summerhill and portions of Ashfield and Petersham.

Main Western Branch.

This sewer is now in course of construction from the Illawarra-road, Marrickville, to Arthur-

street, Ashfield, the work comprising a length of 2 miles 51 chains, being let in two contracts.

The sewer ranges in size from 7 ft. 8 in. x 6 ft. 8 in. to 6 ft. 6 in. x 5 ft. 6 in., and is constructed of brick and concrete, the lining varying considerably in thickness with the different strata passed through. It is chiefly in tunnel through sandstone rock and shale, most of the latter having to be timbered. Immediately west of the Illawarra-road, owing to low ground being met with, land had to be resumed for the purpose of carrying the sewer through in embankment. Tenders are invited for an extension from Arthur-street to Brand-street (a point about half-way between Croydon and Burwood railway stations), with branches extending north and south along the Iron Cove Creek valley. When this sewer is constructed, provision will have been made for the sewerage of portions of Ashfield, Enfield, Croydon, and Burwood. When extended the sewer will drain Strathfield, Homebush, and a portion of Concord. Five Dock and Drummoyne will also eventually be connected with it. Owing to the large number of sewers in course of construction, the contractors have experienced a difficulty in obtaining experienced miners, and if further works of this character are placed on the market, the cost must necessarily be excessive; in the interest, therefore, of the ratepayers the extension of the branch to Homebush has been delayed. The survey of this extension has, however, been proceeded with to the completion of the preliminary work, including the location of the proposed lines of sewer and the necessary levels and borings. In order to ensure the construction of the western branch sewer at the necessary level to deal with the sewerage of Five Dock and Drummoyne, preliminary schemes for dealing with the higher areas of these municipalities were prepared.

Main Northern Sewer.

The length of this sewer from Johnston's Creek, Glebe, to Catherine-street, Leichhardt, including the "Monier" aqueducts, is now completed, and the contract extending onwards to Cook-street, Balmain, is so far advanced that the lining of the tunnels is being proceeded with. A contract has been let during the year for the drainage of the eastern slopes of Balmain, the branch leaving the main sewer at Cookstreet, and extending through the area fronting White's Bay, thence passing through the ridge, to the vicinity of Waterview Bay, whence it turns southward and terminates in Stephen-street.

A branch has been designed to drain the western slopes of Balmain; this sewer also leaves the main porthern sewer at Cook street, and passing under the ridge result the severe beyonders of the College.

main northern sewer at Cook-street, and passing under the ridge near the eastern boundary of the Callan Park Asylum grounds to a point not far from Long Cove, will skirt the shore of the harbour and proceeding northward will terminate near Cove-street. A branch from this sewer will intercept the sewage of the Callan Park Asylum, which at present runs directly into the harbour.

2. Low-level Sewerage.

Marrickville.

An amended scheme has been prepared for the sewerage of the low-lying parts of Marrickville, St. Peters, Macdonaldtown, and Newtown, which shows a considerable saving in cost and a more effectual way of collecting the sewage than originally propounded.

A site at Marrickville adjoining Meek's-road and the Burwood railway line has been selected for a

pumping station, and tenders have been invited in England and the colonies for the supply of the necessary pumping engines to raise the sewage into the western outfall. A contract for the main sewers to drain the area north and easterly of the pumping station is now being prepared, and comprises 2 miles 5 chains of concrete and brick sewer, varying in size from 3 ft. 9 in. by 2 ft. 6 in. to 3 ft. 3 in. by 2 ft. 2 in., and 1 mile of pipe branches.

Woolloomooloo, Circular Quay, Darling Harbour, Pyrmont, Glebe, Annandale, Leichhardt and Balmain East.

Preliminary plans have been made for the drainage of these areas, collecting stations and pumping plant being included in each scheme, in addition to the intercepting sewers. After careful consideration it has been finally decided to lift the sewage by means of centrifugal pumps driven direct by electric motors. The pumping stations, nineteen in number, will be controlled from a central station at Darling Harbour, arrangements having been made with the Railway Commissioners for the supply of the necessary power from the installation shortly to be established for working the electric-tram motors.

The surveys for the pumping stations and sewers in Balmain, from Leichhardt to Waterview Bay along the eastern slopes of Balmain, have been completed, and the detail drawings including designs for the necessary machinery are being prepared. This work includes the construction of a collecting sewer from near the east end of Darling-street to Stephen-street, with a branch sewer to Waterview Bay. These

from near the east end of Darling-street to Stephen-street, with a branch sewer to Waterview Bay. These sewers are chiefly in tunnel through sandstone rock, and will be commenced forthwith so as to be in readiness when the electric power is available for pumping operations.

Considerable difficulty has been experienced in the preparation of designs for the low-level sewerage

of Woolloomooloo, owing to the large extent of level area near the Quay, and to the number of existing sewers which it will be necessary to intercept. It is the intention to leave the present main sewers, which are of substantial construction as carriers for the storm-waters. It is proposed to lift the sewage at a pumping station near the end of Forbes-street, to which point will also be brought the sewage from the buildings of the Botanical Gardens.

3. Eastern Suburbs.

Waverley and Bondi.

To meet the requirements for sewerage for the rapidly increasing population on the seaward slopes of Waverly and Bondi a survey has been made of this area. It is proposed, in order to avoid any contamination of the beaches, that an intercepting sewer, connecting with the Bondi sewer about half a mile from its outlet, and in the neighbourhood of Sophia-street, should be constructed along the coast from the Bronte Estate. This sewer will pass under two high ridges, which will have to be pierced by tunnel. Owing to the great depths of the shafts, and to the construction of the sewer through running sand near its junction with the Bondi sewer, the work of necessity will be a costly one; no other scheme, however, can be devised to adequately serve the requirements of the area.

Randwick and Kensington.

It is proposed to deal with the drainage of the Randwick and Kensington Estate by a sewer connected with the present ocean outfall at Coogee. Leaving the outfall sewer at Beach-street, it follows up the Coogee Creek to Melody-street. It then strikes south-westerly under a high ridge to the intersection of Avoca and Howard Streets. From this point the sewer will be continued westerly to the Bunnerong-road, and thence along that road to the Randwick-road. A contract for the first portion of the sewer, from the outfall to Avoca-street, a length of 85 chains, has been let, and will be built of concrete and brickwork, of oviform section, varying in size from 5 ft. 3 in. by 4 ft. 3 in. to 4 ft. 6 in. by

A considerable length of the sewer will be constructed in tunnel through sandstone rock. time for the completion of the work is June, 1899, when it will provide an outfall for the more thickly populated portions of Randwick.

4. Double Bay Low-level Sewerage.

The sewers for draining this area have been constructed, and the pneumatic ejectors, on the Shone system, fixed in position. Arrangements have been made with the Railway Commissioners for the supply of electric power from the cable tramway engine house, at Rushcutters' Bay, for lifting the sewage. A contract for the erection of the building at Double Bay for containing the electro motors is almost completed, and tenders have been invited for the supply of the machinery and electric connections.

5. North Sydney Sewerage.

At the outfall works, Long Bay, the excavations for the sewage tanks, power house, and filter beds have been completed; a sea wall, built of the excavated stone, has been thrown across the bay for the retention of the sand for filter beds, and a concrete storm-water channel and sewerage carrier has been constructed along the north-west side of the resumption. The site for the power house has been levelled, and a contract is now in progress for the erection of this building, the settling tanks, and the machinery necessary for the treatment of the sewage. Upon the completion of these important works, the contract time for which expires April, 1898, such of the reticulation pipes as are laid will be connected with the main outfall sewer, and the disposal of the sewage will be commenced forthwith.

The sewer draining the southern shore of Berry's Bay and the northern shore of Layender Bay has

The sewer draining the southern shore of Berry's Bay and the northern shore of Lavender Bay has

been pushed forward, and will be completed in a few months.

Mosman Sewerage.

A scheme has been prepared for intercepting the drainage of the suburb of Neutral Bay and Mosman by a sewer connecting with the main North Sydney Outfall Sewer at McLaren-street, and following along the harbour coast as closely as the intersecting gullies will allow of cover being obtained. The preliminary survey has been made for the first division, the contract which it is proposed to terminate at Wickham-road, to which point a large portion of the drainage of the slopes of Neutral Bay can be collected.

6. Storm-water Channels.

Double Bay.

The open storm-water channel along Double Bay Creek, for a length of about 55 chains to the bay, is almost completed, including the trough girder bridge at William-street.

Willoughby.

At Willoughby Creek, North Sydney, near Falcon-street, a closed storm-water sewer, 3 feet in diameter, and 35 chains long, has been built.

Homebush.

A branch of the Homebush Creek Storm-water Channel has been finished near Russell-street, comprising 15 chains of 2 ft. 9 in. circular sewer.

Another branch of the same channel, extending from Clarendon-street to Albyn-street, along the

old watercourse, consisting of 62 chains of closed sewer, is in course of completion.

Euroka Creek.

The specification and designs have been made for a closed storm-water channel at Euroka Creek, North Sydney, about 20 chains in length.

Johnston's Oreek.

Designs have been made for the extension of Johnston's Creek Storm-water Channel from Booth-

street upstream to Parramatta-road, with branches.

Plans were completed, and tenders will shortly be invited, for continuing the present Johnston's Creek Storm-water Channel to the waters of Rozelle Bay. The channel designed is 51 feet wide, by 5 feet 4 inches deep, and the length is 16 chains.

Callan Park.

The Specification and Plans for a storm-water sewer, to drain Callan Park to Long Cove, have been completed; and a branch of Long Cove Creek Storm-water Channel to Park-road, Petersham, is being designed.

7. Country Towns.

Newcastle Pasturage Reserve Drainage.

In connection with the main channel, now under construction, and consisting of some 2 miles 63

chains of open cutting, designs were made for a bridge at the crossing of the Waratah Coal Co.'s Railway, as well as for traffic bridges at the crossing of Lambton and Glebe Roads.

On the Adamstown branch, a steel girder bridge was designed for carrying the Great Northern Railway over the channel. A tramway and road bridge at Lambton-road, and bridges to carry the Waratah Coal Co.'s Railway, and the Lambton Colliery Railway, over the Lambton branch channel, and several bridges for ordinary road traffic, were designed.

The whole of this work is being satisfactorily carried out by day-labour.

The open concrete channel at Cottage Creek, 20 feet wide, by 5 feet in depth, for a distance of 14½ chains, between the G.N. Railway and the A.A. Co.'s Railway, was finished.

A branch of this channel, extending to Hannell-street, has been surveyed, and the plans and specifications are in course of preparation.

Orange.

At Orange, along the Blackman's Creek, a length of about 35 chains of open channel has been completed, providing a proper outlet for the storm-waters.

Byron

Byron Bay.

A channel in earth cutting at Byron Bay Village, 1 mile 50 chains in length, and, on an average, 12 feet wide, has been designed. This work, which will be of great benefit to the locality, is being carried out by day-labour.

Kiama.

A survey has been made for a closed channel along the course of the creek, through the centre of the town, to drain away the storm-waters.

Parramatta Sewerage.

The Departmental scheme for Parramatta has received the approval of the Public Works Committee, and the storm-water channel at Brickfield Creek has been extended to Grose-street, a length of 9 chains of open concrete channel, draining the rainfall from an additional area of 490 acres.

8. Detail Survey of Cities, Towns, and Suburbs.

Sydney and Suburbs.

The surveys of the Municipalities of Drummoyne and Five Dock were completed during the year.

The standard survey of the Illawarra suburbs was brought to a conclusion, and the filling in of the detail sheets has been proceeded with in the Municipality of Rockdale.

In response to applications from the Municipal Councils in the Willoughby District for a sewerage scheme, a standard survey has been made, embracing the populated areas, and the detail will be proceeded with when a surveyor is available.

The detail survey of Granville has been suspended, owing to the removal to the country of the officer who was carrying on the work.

Newcastle and Suburbs.

The detail surveys of the municipalities of Adamstown, Waratah, Lambton, and Merewether have been completed, and levels are now being taken for preparing a contour map of the city of Newcastle and the more adjacent suburbs.

East and West Maitland.

The survey of West Maitland was brought to a conclusion in the beginning of the year. The Municipal Council of East Maitland have asked that a scheme for sewering the town may be prepared; levels are now being taken to aid in preparing a scheme that will deal with the sewerage of both East and West Maitland.

9. Summary of Work Executed in the Drawing Offices.

During the year, 32 contracts were got out, for which 220 drawings and 1,737 heliographs were prepared, the value of the work designed amounting to £329,015. In addition to this, drawings for works valued at £70,560 are now in progress.

works valued at £70,560 are now in progress.

Fifty-five sheets of the detail survey of Sydney, Newcastle, and their suburbs were drawn, and 33 tracings prepared for heliography. Eighty-four sheets were published, and 758 heliographs were issued to the Water and Sewerage Board and Government Departments, &c.

One hundred and twenty drawings of resumptions and indemnity plans, &c., were prepared; and 537 heliographs of miscellaneous plans published.

A compilation of Newcastle and suburbs, on a scale of 8 chains to an inch, and a revised index map of Sydney and suburbs have been prepared. These maps will be of general use throughout the Government Departments.

J. DAVIS,

Engineer for Sewerage Construction.

The Under Secretary for Public Works.

(IIIVX)

RETURN of Expenditure on Sewerage Construction from 1st July, 1896, to 30th June, 1897.

	Work.	Whether Constructing or under Repair.	Funds from which the Expense is defrayed.	When com- menced.	If Finished, actual amount of Expenditure.	If Unfinished, Amount of Expenditure to 30 June 1897.	Amount Expended from 1st July, 1896, to 30 June, 1897
Ash Cald Stammanday C	Thomas I am a base of	,	1	1 -0-6	£ s. d.	£ s. d.	£ s. d.
	hannels, purchase ofver			1895	***********	1,500 0 0	1,500 0 0 34 18 0
Brickfield Creek, Parra	matta Storm-water Channel			1895	**********	189 9 6 2,782 9 0	811 12 8
	ea Slopes		Tonna	,,		47 I I	10 8 4
Branch Sewer draining	parts of Waverley and Randwick		Loans.	1896		86 0 1	86 o I
	matta, Storm-water Channel			1894		3,262 14 6	11 14 0
	le, Storm-water Sewerwater Channel			1895		2,990 16 0	2,976 18 9
Construction of Drain	across Reclamation to connect with	1	Con. Rev (32		0 7 6	
	Cove		& Loans.	23	664 8 6		661 5 6
Country Towns Sewera	ge	1	(>>	*********	2,125 9 7	2,111 5 10
	on Storm-water Channel		Leans.	1896		17 9 5	17 9 5
Drainage of Sandgate C	r Level Sewerage Scheme		Con Rev	1893	9 m + 8 m		106 17 8
	8		Con. Rev	1890	851 8 10 25,415 11 11	************	*
	land-street Storm-water Channel		i	1892	8,620 10 6	***************************************	*
Double Bay Channel,	from Main Bondi Sewer to Double	A STATE					
				1895	**********	7,080 3 10	3,456 0 9
	Stewarage Scheme			35		7,678 0 2	5,713 17 9
Euroka Creek Storm	Storm-water Channelater Channel			1894	1,450 4 11	747 2 2	17 7 10
Eveleigh Railway Sidin	g to Alexandra Park Storm-water			1896	c+ .114.441.44	141 2 2	141 2 2
Channel	g to meaning this prominent	i i		1891	2,630 0 0		804 9 4
Homebush Creek Storm	n-water Channel			1892		19,036 10 0	3,364 15 3
Iron Cove Creek	n n n n n n n n n n n n n n n n n n n			1891	30,100 0 0		*
Ironbark Creek, Plattst	ourg, Storm-water Channel			1892	7,690 6 4		***************************************
	n-water Channel			1891	**********	11,212 15 6 328 15 2	1,727 9 8
Kensington Estate Drai	inage, Randwick	1	Loans }	1895	960 0 0	320 15 2	153 14 0
Long Cove Creek Storm	n-water Channel			1891		16,601 18 10	*
Long Cove Sewer, Leich	ihardt Branch			1894	5,000 0 0		*
	rsham Park			33	2,483 16 2	*************	*
Mossmans and Outfull	h-street Branch			1896	1,595 10 0	47 = 8	47 # Q
Manly Sewerage				1889	***********	637 0 0	41 5 8
Minor Storm-water Sew	vers, Western Drainage	Con-		1892	15,000 0 0	***************************************	377 5 7
27 . 22 . 22	Northern ,,	structing		1896		4,544 5 7	4,544 5 7
North Shore Land Resi	umption			1894	***************************************	9,550 13 10	3 18 2
North Shore Sewerage	ning Cove Storm-water Channel			1889	**********	102,214 7 2	13,415,16 10
	Storm-water Channel			1890	3,305 18 4	6,573 1 0	71 12 7
Pyrmont Sewerage				1891		607 9 2	*
Parramatta ,,	*************************************			1882		16,685 7 11	*
Point Piper Road Storn	n-water Chapnel		Can Par	1892	11,436 6 9		1,029 1 10
Potts Point and Elizabe	ew Streeteth Bay Sewers		Con. Rev	1886	10,470 16 2	5,268 4 3	63 11 3
	est) Storm-water Drainage			1893	10,470 10 2	128 2 4	03 11 3
Randwick Sewerage	***************************************			21	***********	484 17 i	*
Rose Bay Side Drainage	e Storm-water Channel			1891	3,165 4 7		31 15 3
Rockdole Creek Stormer	Orainagewater Channel			1892		14,991 15 9	100 0 10
	wer from Eveleigh Sheds to Cope-			1895		62 I 2	
land-street			i i	1894	2,483 17 0	**********	670 2 6
Resumption and Temp	porary Occupation of Land, Pad-						
Storm-water Channel N	Bay Side Drainage			1895	15 15 0	***************************************	The same of the sa
Drainage	ewcastle District, Pasturage Reserve		_	MULL		15,681 10 1	3,342 9 8
Sewerage, City of Sydne	ey, Kent-street Sewer		Loans.	1879	822,748 9 I	15,001 10 1	* 9 0
Stanmore Road, Marrie	kville Storm-water Channel			1895		306 17 11	*
Towards straightening of	course of Styx and Throsby Creeks,						
Wavenley and Washing	Someone and		Will bert le	***		8,083 0 11	5,716 14 6
Western Suburbs Sewer	ra Seweragerage, Main Scheme			1889	**********	34,288 2 6	292 7 3 71,641 17 11
White's Creek Storm-wa	ater Channel			1895	***********	522,041 11 7 263 5 6	7 0 0
Willoughby Falls Creek	k Storm-water Channel			"		1,047 12 3	1,003 7 3
Wallsend Storm-water	Channel			33		2,437 10 5	413 12 7
Woolloomooloo, providi	ing new sewers and elevating Sewage				I A COLUMN		
Ornhan School Creek St	torm-water Channel	1 1 1		1896	T 250 0 0	152 3 11	152 3 11
Detail Surveys			Consoli-	1891	1,350 0 0	************	1,836 11 4
Incidental	***************	1	dated	"	49 14 2	***************************************	49 14 2
Work done for other D	epartments	j	Revenue.	22	66 17 5	***************************************	66 17 5
	Tetala					902000 6	*** *** ***
	Totals				959,391 7 0	821,278 6 0	128,710 17 10
		4 37 314			-		

* No expenditure, 1896-7.

SUMMARY OF EXPENDITURE.			
	£	8.	d.
Loans Revenue	126,757	14	11
Services for other Departments			5
	£128.710	17	10

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SEWERAGE CONSTRUCTION BRANCH.

Year.		Loans.	Revenue.	Services for other Departments.	Total.
1880		£ s. d.	& s. d. 8,775 3 7 11,113 7 8 4,281 18 8	£ s. d.	# s. d 409 12 3 3,206 18 0 16,818 1 7 36,507 13 2 105,607 17 7 122,526 10 2 170,765 15 1 160,693 19 10 128,956 8 5 76,061 18 10 99,931 19 2 93,992 19 2 211,697 4 6 213,407 9 9 113,920 5 11
I July,	ary, 1894, to 30 June, 1895	236,340 3 10 130,707 18 6 126,757 14 11	5,347 18 9 2,108 5 3 1,886 5 6	66 17 5	241,688 2 7 132,816 3 9 128,710 17 10
	£	1,008,660 7 6	33,512 19 5	66 17 5	2,048,719 17 7

Land Valuation.

(XIX.)

Report of the Land Valuer.

Department of Public Works, Valuation Branch, Sydney, 12 November, 1897.

In compliance with your B.C. Minute of 7 September, I have now the honor to submit my report upon the operations of this Branch from 1 July, 1896, to 30 June, 1897, which may appear, perhaps, a little voluminous, as not recently has a similar report been called for or furnished.

It will be known to you that all land resumed for any purpose (save the Public Instruction Department) is acquired by the Valuation Branch. So soon as a railway line is approved by Parliament, the Draft Proclamation is issued from this office, Gazette notices prepared, advertisements issued and written, and all necessary formalities are prepared and checked by my officers, duplicate notices of taking, and plans drawn and attached; when completed these are served, and notices of claims filed. The abstracts of title having been delivered, my draftsmen report upon the dealings as affecting the title, and, having given the certificate of identity, the valuation is made, -if accepted, description is prepared for conveyance and certified to.

The work of this Branch is of a very diversified nature, embracing as it does :-

1. Valuations of land resumed for Railways, Sewerage, Water Supply, Reclamations, Post Offices, Police Stations, Bridge approaches, &c.

2. Compensation for temporary occupations.

3. Estimates of costs of resumptions.

4. Sales of surplus lands.

5. Exchanges of lands.

Summarising the work done, it may be noted that during the period under review,—97 valuations have been made, the amounts ranging from a few pounds up to £37,000; 86 cases standing over from previous years have been settled; 62 cases have been prepared for valuation, involving very large sums, including the preparation of data for combatting the Darling Harbour claims; 56 cases of temporary resumptions; 22 estimates of proposed resumptions of railways, &c., have been prepared; 5 court cases have been set down for hearing, 2 of which have been settled amicably, 2 won by the Department, and 1 lost. All these cases were worked up by this Branch.

Besides this regular work, all sorts of miscellaneous questions are submitted to this Branch for consideration with the Crown Solicitor, and questions of procedure frequently advised upon.

A number of long-standing cases, involving disputed titles hung up for years, have engrossed attention, such as Ramsay's, Long Cove, Rozelle Bay reclamations, &c.

Notifications of resumptions and long descriptions have been prepared in the following cases:—

Balmain Sewerage. Bourke Lock and Weir. Billabong Weir. Coutts Crossing. Cockle Creek Extension Drains. Darling Harbour Wharfs. Deep Creek approaches. Greenridge Wharf. Gin Gin Weir. Parramatta Court-house. Parkes Water Supply. Picton Bridge. Parkes Water Supply. Quirindi Bridge. Potts Hill Pipe line, &c.

Bungwall Wharf. Bega Bridge. Canterbury approaches. Inglewood approach.
Kempsey Bridge.
Liverpool Water Supply. Marrickville Sewerage. Menindie Ferry. Morpeth Bridge. Ryde Punt approach.
Shea's Creek Extension.
Tamworth Water Supply. Woolway Creek. Wyalong Post Office.

Proclamations have been issued for-

Parkes to Condobolin Railway. George and Harris Streets Tramway. Railway connection, Darling Harbour. Nevertire to Warren Railway.

Localities visited and reported upon extend over the length and breadth of the Colony. During the year reports have been furnished, amongst other things of a minor nature, upon—

3 routes of City Railways. 22 sites for Police Stations. Sites for Fire Stations.

Proposed Sewerage resumptions at Johnston's Creek, Shea's Creek, Glebe Island, Double

Berrigan to Finley Railway, exchanges negotiated.

Commissioners for Taxation supplied with details of lands resumed from various grants Returns of lands resumed prepared for Government Statistician.

The office is divided into two branches, clerical and professional.

In the clerical branch, where all proclamations are prepared, sales faithfully recorded, correspondence conducted and records kept, valuations and offers written, are three officers and one messenger.

The professional staff consists of a chief draftsman, an assistant, and cadet, who write descriptions, certify to correctness, identify for Crown Solicitor all lands resumed, prepare and check notices of resumption, collect date of transfers, consideration money paid, &c. This staff of three have dealt with over 300 cases necessitating searches at Registrar-General's Office. When claims and abstracts of title are received, these are forwarded to the Crown Solicitor for examination, who returns them with a search paper showing dealings, and as only Register Nos. are given, searches have to be made to protect the Crown against claims for lands not affected by resumptions. Indicative of the precision of their work, in no single case has the wrong owner been treated with, though attempts are frequent to claim for land outside the titles submitted. In addition to this work, good progress has been made in preparing copies of railway plans for the guidance of the Commissioners.

My branch at the present time has a large amount of work in hand, including the following

important cases :-

Darling Harbour resumptions, aggregating claims of £325,000. Moree to Inverell Railway. George-street Tramway. Newcastle Drainage. Rickettson Wyalong cases. Tamworth to Manilla Railway, &c.

In submitting this report I should like to emphasise the necessity for appointing to this branch only officers of proved integrity; the work is of a very confidential nature, necessitating absolute secrecy, and probity is of paramount importance. It is my pleasure to congratulate you upon the personnel of the staff at the date of this report.

The Under Secretary for Public Works.

EDWARD J. SIEVERS, Government Land Valuer.

(XX.) RETURN of Expenditure on Land Resumptions from 1st July, 1896, to 30th June, 1897.

Branch.	Compensation.			Interest.			Law Costs.			Total.		
	£	8.	d.	£	8.	d.	£	8.	d.	£	8.	d
Roads and Bridges	2,274	12	8	120	4	11	170	4	6	2,565	2	1
Harbours and Rivers	16,489	8	10	3,364	4	8	1,550	2	5	21,403	15	11
Government Architect	1,434	0	0	19	12	8	48	14	2	1,502	6	10
Railway Construction	7,019	16	10	1,046	16	0	1,310	16	0	9,377	8	10
Sewerage	2,727	19	0	522	6	4	141	0	8	3,391	6	(
Water Conservation	106	14	6	1	8	9	13	0	4	121	3	7
										£38,861	3	

Hunter District Water Supply and Sewerage Board.

(XXI.)

Report of the President.

Newcastle, 1 December, 1897.

In compliance with your wire of yesterday, I beg to hand you berewith a short report on the operations of the Board for the year ended 30th June last.

Water Supply.

The total quantity of filtered water pumped from Walka to the service reservoirs during the year was 266,979,533 gallons, giving an average daily supply of 731,451 gallons.

The estimated population supplied was 34,655, and the average consumption per head per day was

21.10 gallons.

There were 685 premises connected during the year, making the total number supplied 6,931.

During the year 6 miles 517 yards of new watermains were laid, the principal extension being a main to supply the works of the Sulphide Corporation (Ashcroft's Process), Limited, at Cockle Creek, Lake Macquarie.

In addition to the supply of water for street watering and gutter flushing, the Board granted free supplies to public hospitals, charitable institutions, and parks of slightly over one million gallons for

The system of hiring out meters continues to give satisfaction to the public, and is found to be in the interests of the Department, as repairs to such meters are made by the Board and can be executed

without delay. During the year 156 meters were issued, making a total of 182.

Ratepayers have also taken advantage of the Deferred Payment System for the laying on of water; sees were connected under the system during the year, making a total of 435. The Board allow 87 houses were connected under the system during the year, making a total of 435. The Board allow ratepayers to select any licensed plumber to do the work whose price suits them, and the cost is repaid by quarterly instalments bearing interest at 5 per cent., and extending over a period not exceeding three years.

Of the 11,555 premises liable for water rates only 6,925 are connected. Owing to the depression the Board have not considered it advisable to exercise their powers under the Principal Act to compel the owners or occupiers to connect. Every facility is, however, afforded by the Deferred Payment System whereby the poorest ratepayer may have his premises connected, and repay the cost by easy quarterly instalments.

Regular inspections of the catchment area of the Hunter River, for a distance of 20 miles above the intake at Walka, have been made. The area was found, with one or two minor exceptions (which were promptly dealt with), to be free from pollution of any kind.

Samples of the water from the Hunter River storage reservoir, settling tank, and clear water tank

at the Walka pumping station and from the reticulation mains are forwarded monthly to the Board of Health for analysis. The Government Analyst's reports have been favourable, and show that the water is fit for all domestic purposes.

Every effort has been made by the Board to improve the filtration and aeration of the water, and

the results obtained are very satisfactory.

The improvements to the buildings and machinery at the Walka pumping station, commenced last year, have been completed and are giving satisfactory results. In conjunction with the new duplicate suction and rising mains, now being carried out by the Department of Public Works, these improvements to the machinery will place the Board in a position to cope with the increased consumption of water.

The cost of pumping 1,000 gallons 100 feet high was '45 pence.

Financial.

An Amending Act is now before Parliament. Amongst other amendments a new ratable area has been fixed, under which properties having a frontage to the street in which a main is laid will be ratable for a distance of 440 yards. The provisions of the Principal Act, under which Crown properties have hitherto been rated, have been extended so as to render ratable the properties of the Railway Commissioners

The Act further provides for the revision of the capital indebtedness of the Board to the Government, and the Gazetting of same to the 30th June, 1897, and thenceforward annually.

The following figures show the result of the operations of the Board for the year ending 30th June, 1897:

Revenue.	Expenditure,									
Rates, Special Fees, Meter Accounts, and Miscellaneous charges Balance (Deficiency)	22,518	0		Interest on Capital Debt, at 3½ % per annum, on £428,025 Management expenses Working expenses Maintenance	£ 14,980 4,382 4,211 409	17 16 7	445 619			
	£23,984	15	1		£23,984	15	J			

The result of the year's operations was a deficiency of £1,466 14s. 4d. Only the actual expenditure on maintenance is shown, but to this must be added the difference between the amount actually expended during the year and the proper instalment which the Amending Act directs shall in future be set aside annually from revenue to build up a proper sinking fund for the reconstruction of renewable works. This difference amounts to £2,025. The year's deficiency may, therefore, be fairly taken as £3,491 14s. 4d.

The Board have given serious consideration to the heavy amount of their capital indebtedness to the Government, and intend asking the Honorable the Minister to extend the same consideration to the Hunter District as he has already given to country towns, by reducing the capital debt to such an amount as will enable them to meet the obligations of the Amending Act on the present maximum rate of 1s.

in the £.

The Board had hoped that, with the additional revenue which the Amending Act will enable them to collect, the present rate of 1s. in the £ might have been reduced, but in view of the heavy reduction of the capital debt which the Minister will have to be asked to make to enable them to pay their way on the 1s. rate, the Board realise that no larger reduction in the debt could be reasonably asked for, and the reduction of the rate must, therefore, be reluctantly postponed until the revenue improves. The consumption of water is increasing, and new mains are being extended wherever a return of 5 per cent. on the outlay can be obtained. With this additional revenue, and when values of property improve, the Board hope to be able to make a reduction in the rate.

The percentage of management expenses to revenue was 19.46 and of working expenses 18.70. Taking into consideration that every gallon of water has to be pumped, the Board regard these percentages

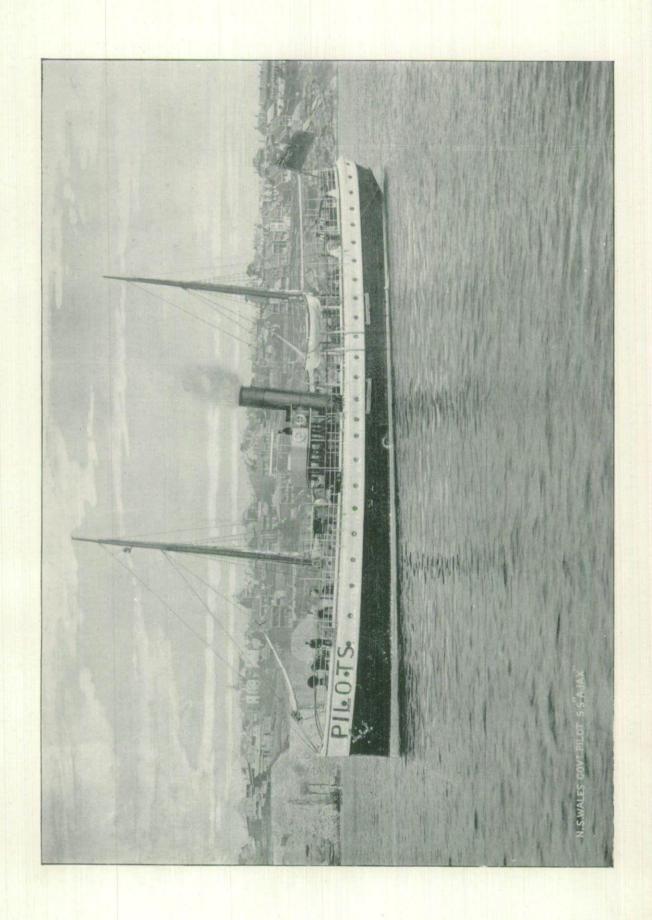
as satisfactory.

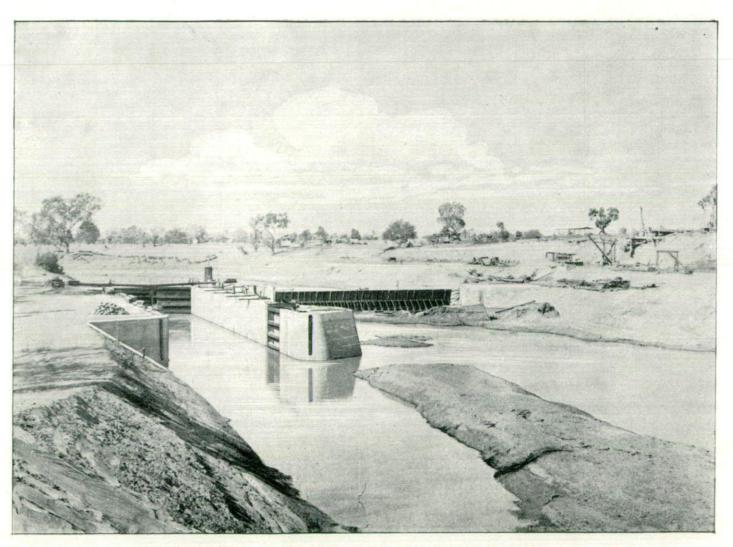
H. D. WALSH, President.

The Under Secretary for Public Works.

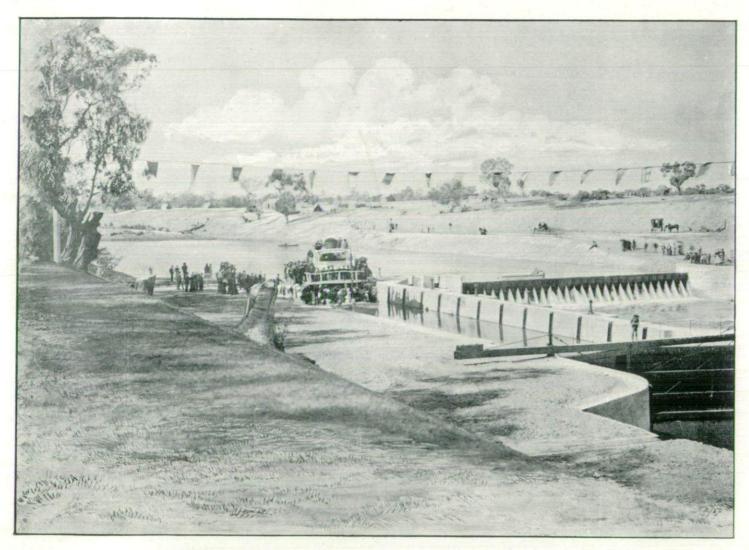
[19 Plans, &c.]

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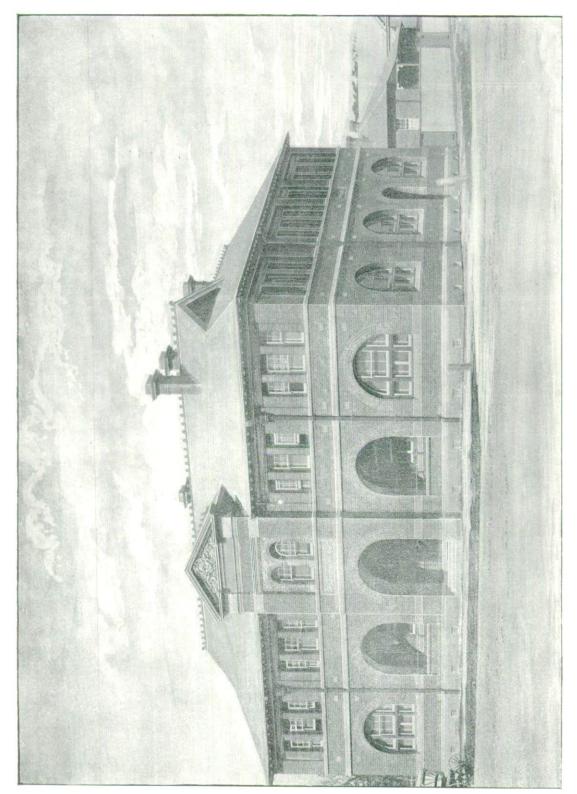
LOCK AND WEIR ON RIVER DARLING NEAR BOURKE, NEARING COMPLETION.



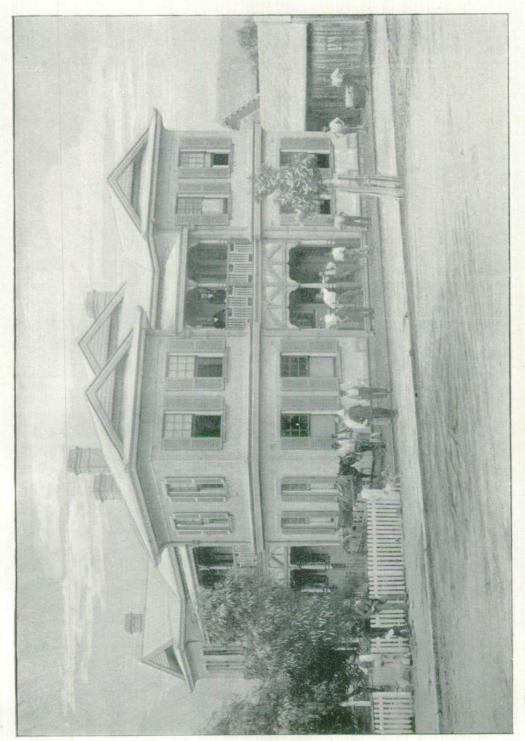
LOCK AND WEIR ON RIVER DARLING, NEAR BOURKE, ON DAY OF OPENING.



COURT HOUSE AND POLICE BUILDINGS, PARRAMATTA.



LAND AND SURVEY OFFICES. EAST MAITLAND,



LAND AND SURVEY OFFICES, DUBBO.



MOUNT VICTORIA POST AND TELEGRAPH OFFICE.

