Inside front cover: Map of New South Wales showing Classification of Main Roads

BUNER FOR LILIN ROAD

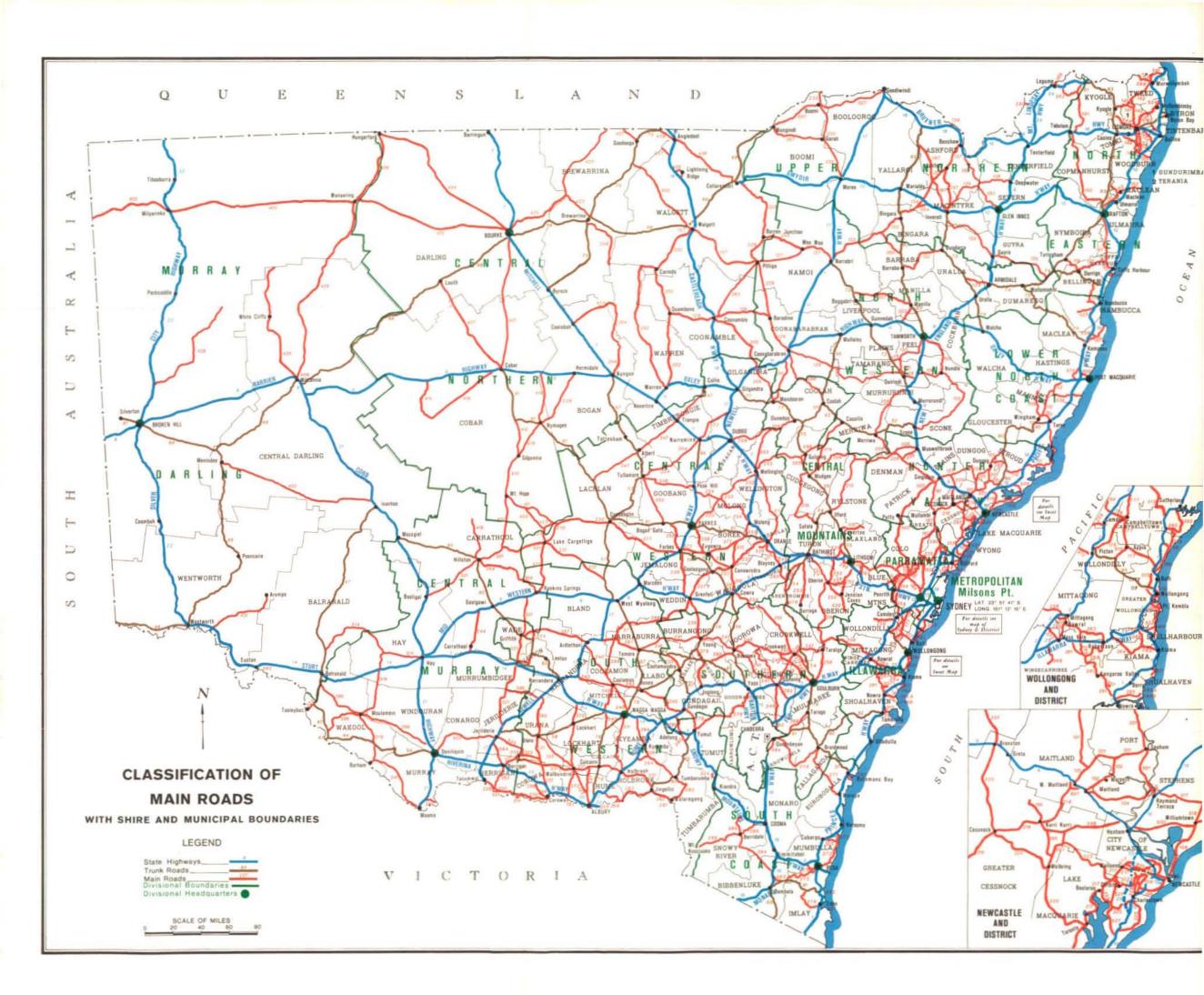
annual report 1969-70

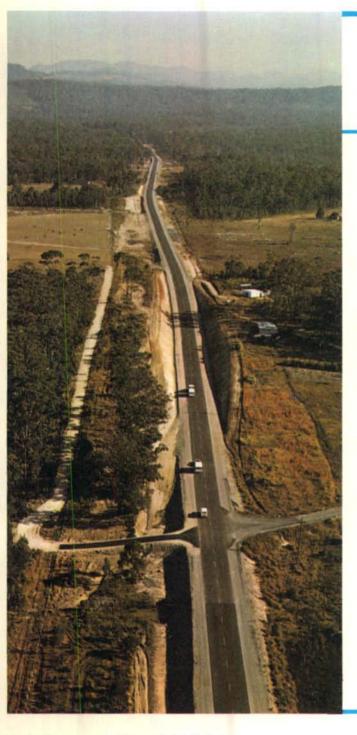
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department of main roads new south wales

contents 1 SUBMISSION PRINCIPAL OFFICERS 2 **GENERAL REVIEW** 3 FINANCE 6 STATEMENT OF RECEIPTS AND 8 PAYMENTS 10 EXPRESSWAY CONSTRUCTION 13 ROAD CONSTRUCTION **16 THE YEAR IN BRIEF 18 BRIDGE CONSTRUCTION** 20 ROAD CLASSIFICATIONS AND MILEAGES 21 BITUMINOUS SURFACING 21 MAINTENANCE OF ROADS 22 TRAFFIC SERVICE 23 ELIMINATION OF RAILWAY LEVEL CROSSINGS 23 LAND SURVEY AND PROPERTY ACQUISITION 24 ADVANCE PLANNING

- 24 RESEARCH AND MATERIALS TESTING 26 INDUSTRIAL RELATIONS AND TRAINING
- 27 DIVISIONAL ADMINISTRATION
- 27 PLANT AND MOTOR VEHICLES
- 29 ROAD PLANNING AND LOCATION
- 29 WEIGHTS OF LOADS ON MAIN ROADS
- 29 LEGISLATION
- 30 PUBLIC RELATIONS
- 31 LIBRARY SERVICE
- 31 LIBRART SERVICE
- 31 MISSIONS ABROAD
- 31 NATIONAL ASSOCIATION OF AUSTRALIAN STATE ROAD AUTHORITIES
- 31 AUSTRALIAN ROAD RESEARCH BOARD
- **32 ACKNOWLEDGEMENTS**





DEPARTMENT OF MAIN ROADS NEW SOUTH WALES SYDNEY, NOVEMBER, 1970

THE HONOURABLE THE MINISTER FOR HIGHWAYS SYDNEY

Section 6 of the Main Roads Act, 1924 requires that the Commissioner for Main Roads shall present an annual report and statement of accounts to Parliament through the Minister.

I now have pleasure in submitting through you the Forty-fifth Annual Report, including statement of accounts.

The report covers the period from 1 st July, 1969 to 30th June, 1970, though a few matters referred to are carried beyond the latter date for convenience and completeness of record.

R. J. S. THOMAS

COMMISSIONER FOR MAIN ROADS

Pacific Highway, ten miles north of Coffs Harbour.

COMMISSIONER FOR MAIN ROADS R. J. S. THOMAS

ASSISTANT COMMISSIONER FOR MAIN ROADS A. F. SCHMIDT

DEPARTMENT OF MAIN ROADS, NEW SOUTH WALES

PRINCIPAL OFFICERS HEAD OFFICE

> Engineer-in-Chief G. V. FAWKNER

Deputy Engineer-in-Chief R. E. JOHNSTON

Chief Engineer (Bridges) F. C. COOK

Rural Investigations Engineer R. E. PLAYFORD

> Highways Engineer G. B. CRANNA

Advance Planning Engineer H. JAMES

> Executive Engineer V. R. MINUS

Engineer for Programmes and Budgets T. S. HOPE

> Assistant Secretary C. A. GITTOES

Assistant Chief Accountant E. L. MARLIN Chief Engineer (Rural) N. F. HATCHER Chief Engineer (Roadworks) W. J. C. ORR Chief Engineer (Urban) E. F. MULLIN

Road Design Engineer L. R. DERRIN

Field Inspecting Engineer R. FITZHARDINGE

Engineer for Country Councils Works B. H. BUTCHER

Engineer for Standard Specifications and Technical Instructions J. C. RUDD

> Secretary C. W. MANSFIELD

Chief Accountant R. G. BARTON

Principal Legal Officer G. C. SHELDON Mechanical Engineer L. A. S. FLACK

Urban Investigations Engineer E. R. JEFFERAY

Traffic Service Engineer M. B. FAIRLIE

Materials and Research Engineer A. LEASK

> Principal Surveyor and Property Officer A. T. LENEHAN

Assistant Secretary J. D. O'CONNELL

Assistant Chief Accountant N. D. MOLONEY

2

general review

Each year in the history of the Department of Main Roads has brought a new challenge and its passing has been a milestone of achievement.

For the year being recorded this has been particularly so, for it has been a year marked with progress but, more importantly, one that has set a pattern for future improvement to the Main Roads System of New South Wales. In the years ahead dynamic progress will flow from the programmes that have been planned.

The finance now becoming available and likely to accrue in the future will ensure the fulfilment of these plans.

The Department's involvement in the provision of a first class Main Roads System throughout the State is total. It serves the man in the country and the man in the city. It serves the private motorist as it also serves the large commercial and industrial road-users. The needs of all are considered thoughtfully and thoroughly.

During the year, work continued in the provision of expressways to cater for the large volumes of traffic in urban areas. Extension of the Southern Expressway near Wollongong proceeded and work was commenced on the first section of the Western Distributor, the South Western Expressway between Liverpool and Campbelltown and a section of the Western Expressway near Penrith.

At the same time, plans for major works on other expressways were being prepared for early commencement. These include sections of the Sydney-Newcastle Expressway, Western, Southern and North Western Expressways.

Highway improvements such as pavement widening, reconstruction and bituminous surfacing and the provision of climbing lanes for slow-moving traffic, have continued and many major works are being currently undertaken on sections of important rural arterial roads.

GENERAL REVIEW - CONTINUED

However, the current programme of rural highway improvement is in its final stages and consideration must now be given to a programme of further improvements on some selected routes, in view of the large volumes of traffic they are carrying. This applies particularly to the Prince's, Hume, Federal, Great Western, New England, Pacific and sections of the Mitchell and Oxley Highways on which the traffic volumes include a considerable percentage of heavy commercial vehicles. On these highways, pavements not already widened will be increased in width to not less than 22 or 24 feet, with wide shoulders. In addition, further deviations will be constructed to improve road alignment, sight distance and to pass around large townships rather than through them.

On the major highways it is evident that many sections now should be dual carriageways and while all the desirable works cannot be done at once, all construction work has been planned and designed for later incorporation as one carriageway of a dual carriageway highway.

On Main Roads in urban areas, considerable improvements have already been achieved by the provision of dual carriageways, pavement widening and channelised intersections. These have resulted in easing some of the traffic conditions and improving traffic flow. This work is continuing as fast as the Department's resources will permit.

The ability to first obtain land for roadworks in highly developed urban areas is a significant factor in improving existing roads and constructing new roads, such as expressways. Therefore, the rate at which these works can be undertaken is primarily governed by the rate at which the necessary property is acquired. In this respect the Department's ability to acquire properties at Kings Cross, and for sections of the Warringah, North Western, Western and Southern Expressways, i.e. works of an immediate nature, is limited to the extent of available specialist staff.

This State is traversed by a widespread system of rivers and waterways which is a challenge in maintaining road communications and which presents an immense task in bridge building.

Throughout the year, the high rate of bridge construction, which has been the pattern in recent years, has continued. Many new bridges have been completed, the construction of others has been continued and many more have been commenced.

In conjunction with the plans to further improve the major rural State Highways, new bridges required on those roads will have a carriageway width of not less than 28 feet.

The close co-operation that has existed between the Department and the Shire and Municipal Councils in the provision of improved Trunk and Ordinary Main Roads has been maintained. In this partnership with Councils, the Department provides much technical assistance as well as considerable financial aid and the high standard of these Council-maintained roads is the result of this partnership.

In recent years the Department, together with other authorities, has co-operated in the provision of roadside rest areas at specific locations. More recently it has provided additional facilities of this nature on many major routes. Rest areas, constructed in specially selected sites, not only provide attractive picnic areas for tourists but also serve the interests of road safety by providing convenient stopping places, adjacent to major routes, where motorists may rest during long journeys and relax in pleasant surroundings.

The care and attention needed to present a clean, tidy roadside is expensive. The careless, thoughtless and sometimes wilful depositing of litter and rubbish within road reserves has always been a major problem and adds greatly to the cost of road maintenance. All too often motorists drop unwanted waste on the roadside, creating not only an unsightly appearance but very often causing health hazards. During the year, the Department embarked upon an intensified campaign to educate and encourage the motoring public to keep the roads clean and free of litter. Signs and litter bins have been installed at numerous locations. The Department's campaign in this direction has been designed to seek public co-operation and it is gratifying to note the response to these appeals. Far less litter is evident on the roadsides and the litter bins provided by the Department are being used. It is unfortunate that some roadusers have not co-operated and have had to be prosecuted for irresponsible disposal of litter and rubbish.

The Department's staff consists of people engaged in an extensive range of occupations. To meet the large programme of works which is planned for the future, the Department will require the services of additional staff in many vocations. Together with most other major organisations, the Department is experiencing increasing difficulties in the recruitment of suitable staff. This is a pressing problem and is particularly evident in the professional field and in the skilled trades.

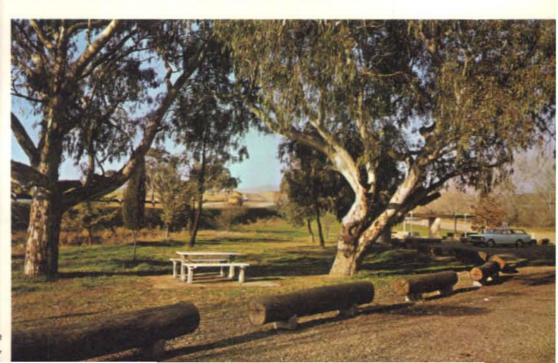
It is hoped that adequate trained staff will become available in the near future to ensure that the Department's programme of proposed works can be carried out confidently and its many important services to the motoring public maintained.





Pedestrian footbridge over Warringah Road at Frenchs Forest.

Aerial view of Southern Cross Drive showing overbridge at Gardeners Ro Eastlakes.



Roadside rest area beside Hume Highway at Bogolong Creek, 20 miles west of Yass

finance

RECEIPTS

The amount received from State Sources, viz., Motor Vehicle Taxation and Charges, the levy under Section 11 of the Main Roads Act and miscellaneous items was \$63,737,876. The amount received under the Commonwealth Aid Roads Act, 1969 was \$40,206,880, making a total of \$103,944,756 for 1969-70, which was \$16,267,373 more than in 1968-69.

In addition, funds totalling \$11,463,445 were provided for special works or for works that could not normally be undertaken from ordinary revenue.

The total funds received for 1969-70 were thus \$115,408,201.

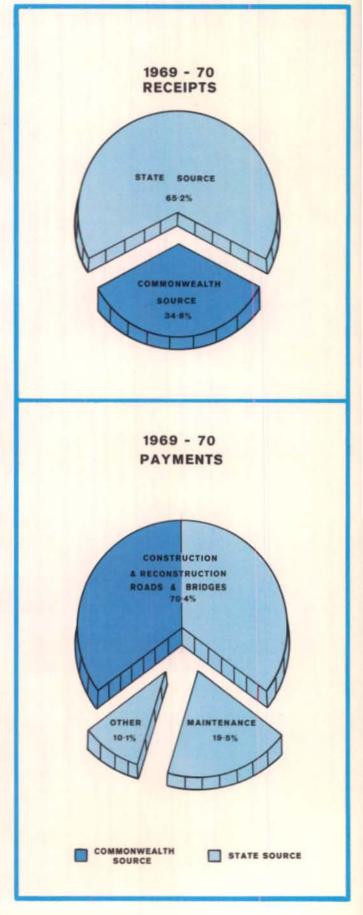
A total of \$40,206,880 was received under the new Commonwealth Aid Roads Act, 1969, which came into effect from 1st July, 1969. This was \$9,538,495 more than was received last year under the former Commonwealth Aid Roads Act, 1964. The Commonwealth Aid Roads grant was equal to half the total expenditure by the Department on construction and reconstruction of roads and bridges.

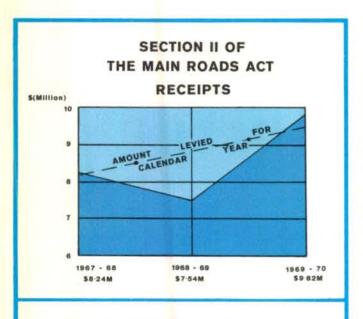
Receipts from State Motor Vehicle Taxation amounted to \$35,646,833 and exceeded the previous year's level by \$1,810,068, which was an increase of 5%.

Charges for heavy commercial vehicles under the Road Maintenance (Contribution) Act, 1958, yielded \$15,872,005 and this was \$1,072,584 more than in the previous year.

Under Section 11 of the Main Roads Act, 1924, the Department issues annually a requisition on each Council in the County of Cumberland to rate on its behalf all property-owners within Council's area at 5/24ths of a cent in the dollar on the unimproved capital value of rateable land. Alternatively, a Council may pay the Department 12% of the income from rates if the amount that would be payable is less than at the rate of 5/24ths of a cent in the dollar on the unimproved capital value. The amount received by the Department in 1969-70 from this source totalled \$9,819,528.

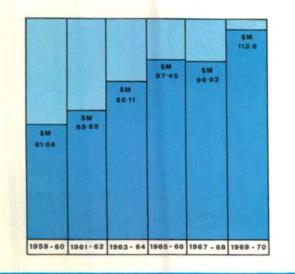
Borrowing amounted to \$8,600,000 during 1969-70, which was \$500,000 more than in the previous year.





MOTOR VEHICLE TAXATION

MAIN ROADS EXPENDITURE AT 1968 - 69 MONETARY VALUES



Loan receipts were used to assist in financing the cost of constructing --

Access Road to Sydney (Kingsford Smit	h)
Airport, Mascot	\$1,393,237
Major road and bridge construction wo	rks on —
Hume Highway	\$1,035,220
Snowy Mountains Highway	163,781
Great Western Highway	1,117,958
Barrier Highway	1,009,396
New England Highway	120,005
Pacific Highway	437,287
Oxley Highway	942,286
Bruxner Highway	186,272
Newell Highway	330,971
Castlereagh Highway	724,257
Monaro Highway	102,124

A total of \$2,000,000 was provided from State loan funds to finance major bridge construction works, including the Hawkesbury River Bridge on the Sydney-Newcastle Expressway.

PAYMENTS

Total payments from the Roads Funds amounted to \$113,624,102 and this was \$15,921,657 greater than for the previous year.

Maintenance and minor improvement of roads and bridges cost \$22,113,515 which was 19.5% of the total expenditure.

Construction, reconstruction and the acquisition of property for roadworks accounted for the major portion of the Department's expenditure and the amount expended on these works was \$79,999,116. This was 70.4% of the total expenditure during 1969-70 and compared with \$67,949,885 in 1968-69.

Loan charges, administrative expenses and other costs amounted to \$11,511,471.

In the case of the country area of the State, Councils' share of the cost of Main Roads works do not pass through the Department's accounts and therefore are not included in the amounts stated above.

statement of receipts and payments for the year ended 30th june, 1970

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RECEIPTS																		
Motor vehicle taxation in accordance with	th th	ne M	ain F	Road	s Ac	t, 19	24						**				-	
Charges on commercial vehicles under the	he R	oad	Main	nten	ance	(Co	ntrib	utio	n) A	ct, 15	958		22					
Levy upon Councils in accordance with																		
State Government Loans - Repayable								1							100			
Loan borrowings under Section 42A of t															1			
Contributions by Councils towards main													oads					
Contributions by other departments and															eco	ndan	Ro	ade
Sydney Harbour Bridge Account for exp							nee t		01131	auci	10111		unitu			luur	y 1101	aus
Commonwealth Aid Roads Act, 1964			appi						**			• •			**		**	•••
Commonwealth Aid Roads Act, 1969 -				••	•••	*.*	••		1.4			**	4.4				**	*.*
Urban arterial roads — Schedule 2																		
Rural arterial roads — Schedule 2		••	**		* *			4.4	100			* *	* *		4.9	10 M.		**
Other rural roads — Schedule 3						* *			* *	1.2	* *						• •	
Planning & research — Schedule 5	100		* *	10.0		* *			1717-1	10.00	1.1		**	(**)		+ +)		***
Flanning & research — Schedule 5	1.0			• •	+ +	• •	* *	1.0	10.00	* *	**	* <	* *		***			
Other		-																
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Balance brought forward from last year	(\mathbf{w},\mathbf{w})	**				+ ÷												
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PAYMENTS																		
Maintenance and minor improvements o	froa	ads a	nd b	ridg	es													
Construction and reconstruction of roads										10.0	4.8		1.14					
Maintenance and construction of unclas	sifie	d ro	adsi	n the	We	stern	Div	ision							44			
Land acquisition			24			**		-										
Planning and research																		
Administrative expenses																		
Purchase of land and buildings for admin	nistra	ation	and	ope	ratio	n		1										
State Government Loans -				-									10	1414				
Sinking fund payments																		
Interest, exchange, management and	d flo	tatio	nex	pen	ses													
State Treasury - Repayment of tempora																		
Loan borrowings under Section 42A of t				ds A	ct. 1	924	_								12121	ine.		
Repayment of principal								22.							20			
Interest					**													
Other																		
													-			A1	122.200	-
															-	10 mm		
22 C C C C C C C C C C C C C C C C C C															Tot	al Pa	ayme	nts
Transfers to reserve for loan repayments					**	×.4							×x.		Tot	al Pa	ayme	nts
Transfers to reserve for loan repayments Net transactions of operating and susper							•••	**			44 44				101	al Pa	ayme	nts

Balance carried forward

*Credit

County of Cumberland Fund \$	Country Fund \$	Commonwealth Fund \$	Total \$	1968-69 \$
7,329,367	29,317,466		36,646,833	34,836,765
3,174,401	12,697,604		15,872,005	14,799,421
9,819,528	12,037,004		9,819,528	7,538,001
300,000	1,700,000		2,000,000	4,800,000
300,000	8,600,000		8,600,000	8,100,000
30,028	38,805	_	68,833	262,061
320,805	873,600		1,194,405	
	073,000	_		349,768
223,762	_	_	223,762	900,000
-	-	_	-	30,668,385
		26,070,000		
		10,260,000		
		3,016,880		
		860,000	40,206,880	
530,410	245,545	-	775,955	858,919
21,728,301	53,473,020	40,206,880	115,408,201	103,113,320
9,194,889	8,427,086	506,015	18,127,990	14,787,488
30,923,190	61,900,106	40,712,895	133,536,191	117,900,808
4,910,576	17,202,939	_	22,113,515	19,719,364
6,128,124	25,951,348	33,546,068	65,625,540	62,284,490
—	_	202,567	202,567	373,341
7,553,172	849,494	5,768,343	14,171,009	5,292,054
-	_	314,854	314,854	_
2,330,307	3,802,341		6,132,648	5,379,080
871,229	1,055,331		1,926,560	1,078,177
13,130	153,345	_	166,475	156,022
166,630	865,245	_	1,031,875	971,107
100,000	100,000	_	200,000	200,000
159,784	54,597		214,381	161,086
594,334	333,384		927,718	550,610
182,498	414,462	-	596,960	1,537,114
23,009,784	50,782,486	39,831,832	113,624,102	97,702,445
128,550	96,915		225,465	137,026
17,820*	16,024*		33,844*	1,933,347
23,120,514	50,863,377	39,831,832	113,815,723	99,772,818
7,802,676	11,036,729	881,063	19,720,468	18,127,990
and a second sec	Contraction Dealerships	and the second	In a constant of the constant	a second to be a second of the

expressway construction

The Department's planning proposals provide for a network of expressways along the urban coastal corridor from Newcastle to Wollongong, in which about 73% of the population of the State reside and about 66% of the State's motor vehicles are registered. These proposals are under constant review in the light of known needs and likely future population and traffic trends.

In the past, progress on expressway construction could only be undertaken on a minor scale in relation to the planned system and then only at specific locations where there was an urgent need to provide immediate relief to a traffic problem.

As a result of increased funds now becoming available for the construction of urban arterial roads, the provision of this expressway system will be accelerated as far as possible, within the bounds of the technical and financial resources available.

During the year, a number of new expressway projects has been commenced and plans announced for further extensions to the system.

WESTERN DISTRIBUTOR

The Western Distributor will extend from Sydney Harbour Bridge to Ultimo, where, by an interchange, it will connect with the Southern and Western Expressways. The Distributor will also connect with the North Western Expressway leading towards the Gladesville Bridge.

The Department, in the previous financial year, invited tenders for the construction of the first section of the Distributor from Sydney Harbour Bridge to Day Street, between Erskine and King Streets. In October, 1969 the tender submitted by Dillingham Constructions Pty. Ltd. for the sum of \$4,253,253 was accepted for this work. The first section is 3,150 feet in length and includes the construction of a reinforced concrete box girder viaduct, 1,870 feet long. It will also involve modifications to the layout of the existing street system and to the southern toll plaza of Sydney Harbour Bridge.

This section is expected to be completed in the latter part of 1972.

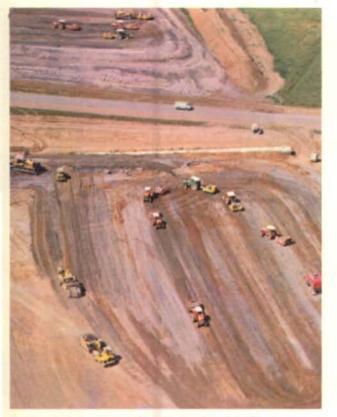
A separate Divisional organisation, known as the Inner Expressway Construction Division, is attached to Head Office and is responsible for the construction of the Distributor.

WESTERN EXPRESSWAY

The planned Western Expressway will extend from the City to the lower Blue Mountains.

The construction of the bridge over the Nepean River at Regentville, approximately two miles upstream from the existing Victoria Bridge on the Great Western Highway, was continued throughout the year. It is expected to be completed by mid-1971.

Concurrently with the construction of the bridge, the Department has continued expressway construction easterly to provide a bypass around the commercial and shopping centres of Penrith and St. Marys. The



Earthworks in progress during construction of the South Western Expressway, between Cross Roads, near Liverpool and the Campbelltown-Camden Road.

Earthworks nearing completion at the same location, where twin bridges will be built to carry the South Western Expressway over Aero Road, Ingleburn.

Construction of a new bridge, over the Nepean River at Regentville, which will form part of the Western Expressway between St. Marys and Emu Plains.



EXPRESSWAY CONSTRUCTION - CONTINUED

completion of this section will coincide with the completion of the bridge at Regentville. The estimated cost of the bridge and associated roadworks is in the order of \$11.5 million.

The expressway will be progressively extended easterly towards Prospect. Widening of the Great Western Highway, between Prospect and Penrith will be continued and, thus, greatly improved conditions will be available for traffic between Penrith and the City by the middle of 1971.

Work on a further section of the Western Expressway, between Homebush and Clyde, is planned for early commencement. On this four-mile section there are eleven sites where bridges will be required. In the latter part of the financial year, tenders were invited for the construction of bridges at two of these sites. It is expected that work on this section of expressway will commence early in 1971 and, including all bridgeworks, will cost approximately \$19 million. When completed it will provide considerable relief for traffic in this highly industrialised area and will also serve to meet the needs of traffic generated by the City Markets when they are relocated into this area.

SOUTH WESTERN EXPRESSWAY

During the year, the Department commenced the construction of a nine-mile section of the South Western Expressway from the Cross Roads near Liverpool, to the Campbelltown-Camden Road.

The work is being undertaken by the Department's own forces and considerable progress is being made. Bridging is required at eleven locations and construction has already commenced on bridges at two of these sites.

This section of expressway is planned for completion in mid-1972. The estimated cost of the work is \$10 million.

SOUTHERN EXPRESSWAY

Work on the Southern Expressway, to provide a bypass around the commercial and industrial areas of Wollongong and Port Kembla, has been continued during the year. The Department is currently constructing the section between Gladstone Avenue, Fig Tree and Five Islands Road, Unanderra. Bridges are required at five sites along this section and, during the year, the Department accepted tenders for bridges at three of these sites and invited tenders for the remaining two.

During the year, plans were prepared for the construction of a fourteen-mile section of the Southern Expressway, between Waterfall and the top of Bulli Pass which, when completed, will operate as a Tollwork. At Waterfall this Tollwork will link with the widened Prince's Highway, while at its southern end motorists will have the choice of using either the Prince's Highway via Bulli Pass or the Mount Ousley Road.

The Department invited qualified contractors to register for tendering for this work and all those who registered were invited to submit tenders for the construction of the earthworks, drainage, etc., on the 7.5 mile section at the northern end, extending from Waterfall to near Darkes Forest Road. The contract for this part of the

work was awarded to G. Abignano Pty. Ltd. and the value of the contract was \$3,411,295. On this section, four bridgeworks will be required for which the Department will invite separate tenders.

In the meantime, the Department is completing the design for the southern section on which a further six bridgeworks will be required.

The Department expects that construction of the Tollwork between Waterfall and the top of Bulli Pass will be completed by the end of 1972.

SYDNEY-NEWCASTLE EXPRESSWAY

Approximately sixteen miles of this expressway have been constructed and operate as two separate tollworks; ten miles north of the Hawkesbury River and six miles south of the River.

The Department has arranged for the construction of a new six-lane bridge across the Hawkesbury River to link these two sections and to make them fully effective. The construction of the foundations for this bridge was commenced during the year after a contract was awarded to John Holland (Constructions) Pty. Ltd. for the sum of \$1,330,629. The design for the superstructure is being prepared and tenders for its construction will be invited later in 1970. It is aimed to have the new bridge completed by the end of 1971. Until then the existing three-lane bridge over the Hawkesbury River will serve both Expressway and Pacific Highway traffic.

In July, 1969, plans for two further extensive works on the Sydney-Newcastle Expressway were announced.

The first will be a fourteen mile section extending from Ourimbah to Doyalson, providing a bypass to the west of Wyong. The design for this section is being prepared with a view to commencement as soon as possible. When completed it will also operate as a tollwork.

The second work will involve the construction of a new bridge over the entrance to Lake Macquarie and a section of expressway approaches north and south of the bridge to link with the Pacific Highway. This will provide a route for through traffic around the busy Swansea shopping centre. The design for this bridge is being prepared with a view to calling tenders for construction in the latter part of 1970.

WARRINGAH EXPRESSWAY

The first section of the Warringah Expressway extends from the northern end of Sydney Harbour Bridge to Miller Street, Cammeray and was opened to traffic on 18th June, 1968. Considerable relief was thus provided for traffic in the street systems in the North Sydney area. To meet the future needs of traffic north of the Harbour, a ten year construction programme for the completion of the Warringah Expressway was announced in April, 1970. Various segments of this expressway, including a major bridge over Middle Harbour between Castlecrag and Seaforth, and expressway links to Gore Hill and Balgowlah, will be undertaken in six separate stages and are estimated to cost about \$70 million. The first section to be undertaken in this programme will be a short extension of the existing work from Cammeray to Naremburn.

road construction

COUNTY OF CUMBERLAND

The progressive improvement of State Highways and Main Roads throughout the County of Cumberland was continued during the year. Principal works carried out included:—

Southern Cross Drive

An expressway-type road from South Dowling Street, Kensington to Wentworth Avenue, Mascot, was completed during the year as part of a new high standard access route to Sydney (Kingsford Smith) Airport. This new road together with the improvement of existing roads (including the widening of South Dowling Street, south of O'Dea Avenue; Wentworth Avenue, Mascot; and Botany Road, Robey Street and Amelia Street in the vicinity of the Airport) was undertaken by the Department at a cost of approximately \$9 million.

The new expressway-type road has been named "Southern Cross Drive" and was opened to traffic on 13th October, 1969.

During the year, the Department continued the widening of South Dowling Street northerly to Flinders Street, Darlinghurst as part of the improved access to the Airport.

Prince's Highway

Reconstruction between Cardiff Street, Engadine and Whitton Street, Heathcote was substantially completed. The widening of this highway is being continued southwards to link with the Waterfall-Bulli Pass Tollwork now under construction.

Great Western Highway

Widening, to provide dual carriageways, was continued for a further three miles from the western end of the Prospect Deviation. This work is being continued westerly to Bennett Road, St. Marys. The highway was also widened to provide a four-lane carriageway over Quarry Hill near Kingswood and this is being continued easterly towards St. Marys.

Hume Highway

Kerbside lanes and associated drainage works were constructed on sections of the highway at Landsdowne and Warwick Farm.

Woodville Road (State Highway No. 13)

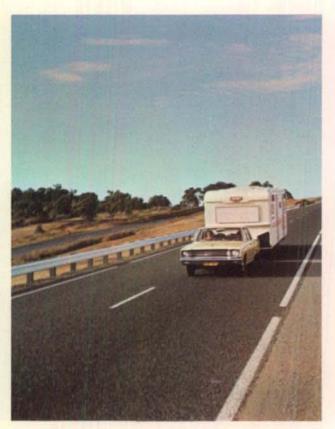
Dual carriageway approaches for the new railway overbridge at Villawood were completed and an interchange to serve Christina Avenue and River Road, Villawood was nearing completion at the end of the year.

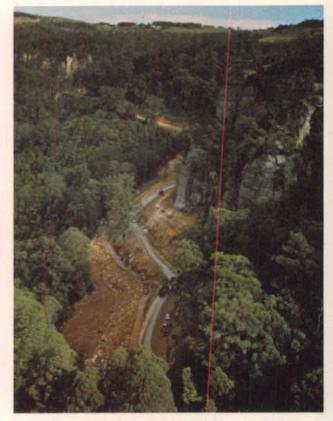
Eastern Valley Way

Reconstruction and widening to provide four traffic lanes between Boundary Road, Roseville and Megalong Avenue, Middle Cove were completed. This work is being continued towards Sailors Bay Road, Northbridge.

Stacey Street, Bankstown

Construction of the road approaches associated with the new railway overbridge at Bankstown was completed.





Recently constructed second carriageway, for southbound traffic, on the Hume Highway, five miles north of Goulburn. Reconstruction of the Monaro Highway, at the approaches to a new bridge over Michelago Creek near Michelago.



ROAD CONSTRUCTION - CONTINUED

COUNTRY

Major works completed on State Highways in the country included:-

Prince's Highway

Reconstruction of the approaches to the railway overbridge at North Wollongong on improved alignment and grading.

Reconstruction and widening between 1.7 miles north and 0.6 miles south of Narooma. This work included improvement to the alignment and grading between the Water Tower and Cemetery Road, Narooma.

Hume Highway

Construction of a deviation on an improved alignment and grading on the southern approach to Whitehorse Railway Overbridge between 14.0 and 14.8 miles south of Picton.

Reconstruction between 11.3 and 18.9 miles north of Goulburn, including the provision of a climbing lane for northbound traffic.

Construction of a second carriageway for southbound traffic between 2.9 and 5.1 miles north of Goulburn. Reconstruction and bituminous surfacing, including three lengths of climbing lanes, between Conroy's Gap at 12.7 miles and Bogolong Creek at 20.0 miles west of Yass.

Reconstruction between 8.1 and 19.3 miles north of Holbrook. This work included three bridges over Billabong and Little Billabong Creeks and the provision of dual carriageways between 9.2 and 12.4 miles.

Snowy Mountains Highway

Reconstruction and bituminous surfacing between 1.5 and 4.0 miles west of Kiandra.

Construction of a deviation at Gilmore between 3.6 and 5.1 miles west of Tumut in conjunction with the construction of a new bridge over Gilmore Creek.

Mitchell Highway

Reconstruction and bituminous surfacing between 2.3 and 6.3 miles east of Orange.

Reconstruction and pavement widening between 0.9 and 5.6 miles east of Dubbo.

Widening of the pavement from 10 feet 6 inches to 22 feet between 29.0 and 37.5 miles southeast of Nyngan.

Reconstruction and bituminous surfacing between 22.0 and 36.0 miles, between 59.3 and 59.9 miles and between 82.2 and 82.6 miles north of Bourke.

Barrier Highway

Reconstruction and bituminous surfacing between 38.9 and 41.2 miles west of Nyngan by Bogan Shire Council, on behalf of the Department.

Reconstruction and bituminous surfacing between 84.2 and 98.0 miles west of Cobar.

Reconstruction and bituminous surfacing between 8.2 and 11.6 miles east of Wilcannia.

Reconstruction and bituminous surfacing of the Grassmere Deviation between 19.0 and 34.5 miles west of Wilcannia. There is now a bituminous surface for the full length of the highway between Wilcannia and Broken Hill.

• Pacific Highway

Reconstruction to provide dual carriageways from Ida Street, Charlestown to the Newcastle City boundary for a length of 1.1 miles.

Reconstruction and bituminous surfacing between 21.0 and 23.3 miles north of Newcastle.

Reconstruction and bituminous surfacing between 8.9 and 11.0 miles north of Coffs Harbour. This work replaced a section of road subject to flooding.

Construction of a deviation between 45.7 and 47.1 miles north of Grafton, including the construction of two bridges.

Oxley Highway

Reconstruction of a section 1.1 miles in length through Wauchope by Hastings Shire Council, on behalf of the Department.

Reconstruction and bituminous surfacing between 35.9 and 38.9 miles west of Port Macquarie.

Reconstruction and bituminous surfacing between 10.0 and 12.0 miles east of Walcha.

Gwydir Highway

Reconstruction and bituminous surfacing between 7.7 and 10.5 miles east of Moree by Boolooroo Shire Council, on behalf of the Department.

Bruxner Highway

Construction of the approaches to a new bridge over Tomki Creek between 5.9 and 7.3 miles east of Casino by Tomki Shire Council, on behalf of the Department. Reconstruction and bituminous surfacing on an improved alignment between 2.2 and 3.7 miles east of Drake.

Reconstruction between 14.7 and 22.5 miles west of Tenterfield by Tenterfield Shire Council, on behalf of the Department.

Newell Highway

Construction of the approaches to the new bridge over Lake Forbes by Forbes Municipal Council, on behalf of the Department.

Reconstruction between 1.4 and 3.4 miles north of Forbes by Jemalong Shire Council, on behalf of the Department.

Reconstruction of damaged pavement between 1.0 and 9.0 miles south of Gilgandra.

Reconstruction and bituminous surfacing between 16.5 and 20.6 miles north of Coonabarabran.

Reconstruction and bituminous surfacing between 38.1 and 43.0 miles north of Moree.

Castlereagh Highway

Reconstruction and bituminous surfacing between 8.5 and 10.0 miles and between 17.5 and 30.0 miles north of Walgett.

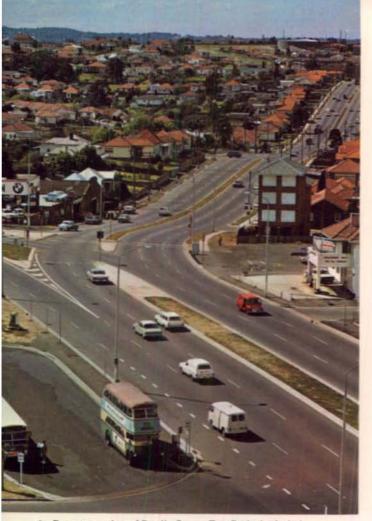
Monaro Highway

Reconstruction and bituminous surfacing between 9.2 and 14.5 miles south of Nimmitabel and between 7.0 and 8.0 miles south of Bombala by Bibbenluke Shire Council, on behalf of the Department.

Cobb Highway

Reconstruction and bituminous surfacing between 16.6 and 24.0 miles north of Moama.

Reconstruction and bituminous surfacing between 29.0 and 47.8 miles north of Hay.



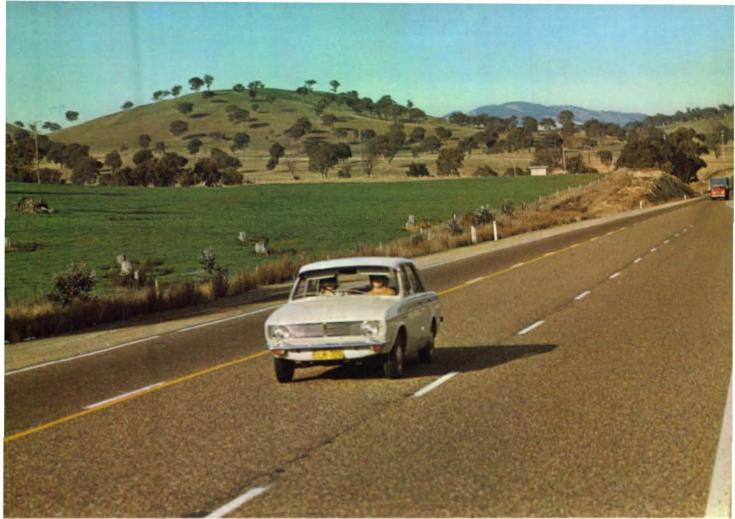
 Reconstruction of Devlin Street, Top Ryde, included channelisation of this intersection with Lane Cove Road and Blaxland Road (on left).

 "Irrawang Bridge" over the Hunter River at Raymond Terrace eliminated a vehicular ferry service from the Main Roads System. During 1969-70...

- Bituminous surfacing was carried out on 1,271 miles of road, including 339 miles not previously sealed.
- The construction of 136 new bridge structures was completed and work was in progress at a further 144 sites.
- Seven railway level crossings were eliminated from the Main Roads System.
- A total of 18,580 miles of linemarking was undertaken on 10,480 miles of road.
- Channelised facilities for traffic were completed at 24 intersections and were under construction at a further 11 sites.

the year

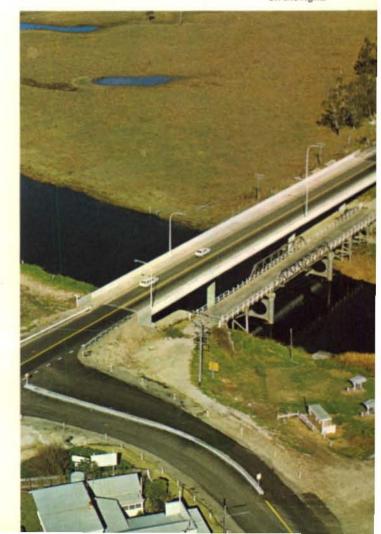
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in brief

- Climbing lanes for slow-moving traffic were completed at 12 locations and were under construction at a further 3 sites.
- Three new roadside rest areas were completed, bringing the total in use to 39.
- Over 272,000 tests on materials, such as soils and gravels, were carried out at Departmental laboratories.
- A total of 13,800 road signs were manufactured at the Department's Central Workshop, Granville.
- Advisory speed surveys were carried out on 2,100 miles of roads.
- Traffic counters were installed at 22 new sites, bringing the total to 201 permanent and semi-permanent locations.
- Total expenditure amounted to over \$113.6 million.

- Reconstructed section of the Hume Highway, approximately fifteen miles west of Yass.
- New concrete bridge over the Myall River at Bulahdelah on the Pacific Highway, with the old steel and timber structure on the right.



bridge construction

During the year, the Department and Councils completed the construction of 136 bridge structures on classified roads and at sites on unclassified roads where the Department is responsible for the construction of crossings. These structures consisted of 59 bridges and 77 box culverts of bridge size (i.e. with a waterway width of twenty feet or more). The total length of these structures was 16,176 feet. In addition, widening or the construction of footways was completed on five bridges.

The classifications of the roads on which the structures were built were as follows:---

Classification of Road	Bridge	Bridge-size Culvert	Total
Expressways	8	-	8
State Highways	21	28	49
Trunk Roads	6	17	23
Ordinary Main Roads Developmental and	15	22	37
Unclassified Roads	8	10	18
County Roads (Future Main Roads)	1	_	1
Total	59	77	136

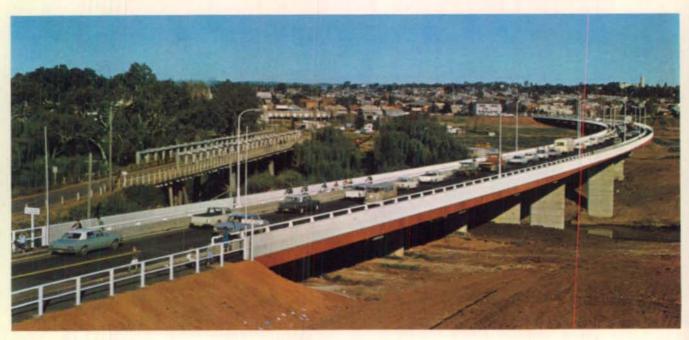
Of the completed bridges, 34 were built by the Department (25 by contract) and 23 by Councils (14 by contract). The two remaining bridges were built by the Department of Railways (1) and the Council of the City of Sydney (1).

Thirty of the bridge-size culverts were built by the Department (5 by contract) and 47 by Councils (13 by contract).

Some of the large bridges completed during the year included:---

- Southern Cross Drive. A new six-lane single-span reinforced and prestressed concrete bridge, 224 feet long, to carry Gardeners Road (Main Road No. 183) over the new access route to Sydney (Kingsford Smith) Airport.
- Southern Cross Drive. A new four-lane two-span reinforced and prestressed concrete girder bridge to carry the new access route to Sydney Airport over Epsom Road, Rosebery.
- Billabong Creek, on the Hume Highway, 30.5 miles south of Tarcutta. A two-lane prestressed concrete bridge, 385 feet long, to replace a low-level concrete bridge which was subject to flooding.
- Castlereagh River at Binnaway on Developmental Road No. 1170. A two-lane six-span steel and reinforced concrete bridge, 360 feet long, to replace a low level bridge.
- Darling River Flood Channel at Two Mile Break, two miles north of Wentworth on the Silver City Highway.
 A new two-lane twenty-span reinforced and prestressed concrete bridge, 400 feet long, on a flood free deviation of the highway across the Darling River flood plain.
- Hunter River at Raymond Terrace on the Raymond Terrace-Millers Forest Road. A two-lane five-span reinforced and prestressed concrete bridge, 678 feet long, to replace a vehicular ferry service.
- King Creek on the Oxley Highway, 11 miles west of Port Macquarie. A two-lane seven-span reinforced and prestressed concrete bridge, 237 feet long, to replace an old narrow concrete bridge which was 166 feet long, on poor alignment and subject to flooding.

This new bridge, over the Macquarie River at Dubbo on the Mitchell Highway, is 2,013 feet long and is the fourth longest road bridge in New South Wales. This bridge was named "L. H. Ford Bridge" at the official opening ceremony on 26th September, 1969.





View showing the attractive V-shaped piers of the new bridge over Lake Forbes at Forbes on the Newell Highway.

- Lake Forbes at Forbes on the Newell Highway. A new two-lane nine-span prestressed concrete bridge, 470 feet long and with two footways, on a deviation of the highway.
- Macquarie River at Dubbo on the Mitchell Highway. A two-lane 28-span prestressed concrete bridge, 2,013 feet long, to replace a steel and timber bridge, 502 feet long, the approaches of which were subject to flooding. At present, this bridge is the fourth longest road bridge in New South Wales.
- Michelago Creek, near Michelago, 31 miles south of Canberra on the Monaro Highway. A two-lane seven-span continuous prestressed concrete bridge, 301 feet long, to replace a narrow timber structure, 113 feet long.
- Myall Creek, 1.75 miles west of Bonshaw on the Bruxner Highway. A new two-lane six-span prestressed and reinforced concrete bridge, 210 feet long.
- Myall River at Bulahdelah on the Pacific Highway. A two-lane four-span prestressed and reinforced concrete bridge, 395 feet long with two footways, to replace a steel truss and timber beam bridge, 248 feet long.
- Six Mile Creek at Batten's Bight, 39 miles north of Grafton, on the Grafton-Casino Trunk Road. A two-lane 19-span prestressed and reinforced concrete bridge, 665 feet long, to replace a timber beam bridge which was 53 feet long and subject to flooding.
- Tomki Creek, 7 miles east of Casino on the Bruxner Highway. A two-lane four-span prestressed and reinforced concrete bridge, 280 feet long, to replace a timber beam bridge, 123 feet long.

- Warialda Creek on the Warialda-Yetman Trunk Road. A two-lane five-span steel and concrete bridge, 295 feet long, to replace an old timber structure, 266 feet long.
- Railway Overbridge at Stacey Street, Bankstown. A new six-lane three-span prestressed concrete bridge, 295 feet long with two footways, to connect the northern and southern sections of Stacey Street, Bankstown and to provide a new route bypassing the business centre. The bridge provides a new crossing over the railway line and grade separations over an extension of North Terrace and over South Terrace with interchange facilities for local traffic.
- Pedestrian Bridge over Warringah Road at Frenchs Forest. A new prestressed and reinforced concrete footbridge, 320 feet long, over Warringah Road near its intersection with Forest Way.
- Pedestrian Bridge over the Southern Expressway at Byarong Avenue, Wollongong. A new six-span prestressed concrete footbridge, 315 feet long.

At the close of the year, 80 bridges and 63 culverts of bridge size were being constructed on classified roads by the Department and Councils.

These included the bridges over the Nepean River at Regentville on the Western Expressway; the Nepean River at Camden on a deviation of the Hume Highway; the north arm of the Hunter River at Stockton to replace the Stockton Ferry; the Hawkesbury River at Peats Ferry on the Sydney-Newcastle Expressway; Cook's River at Arncliffe, adjacent to the new International Airport Terminal; Lower Warrell Creek on the Pacific Highway near Macksville; and Lake Illawarra at Windang as well as a large number of bridges associated with the Department's extensive expressway works.

road classifications and mileages

The total mileage of Expressways, State Highways, Trunk Roads, Main Roads, Secondary Roads, Tourist Roads, Developmental Roads and unclassified roads for which the Commissioner is responsible, in New South Wales, is 27,090 miles.

The mileages of roads within the various classifications, as at 30th June, 1970, are

Expressways	26 miles*
State Highways	6,539 miles
Trunk Roads	4,245 miles
Main Roads	11,572 miles
Secondary Roads	176 miles
Tourist Roads	219 miles
Developmental Roads	2,741 miles
Unclassified Roads	1,572 miles

*This total excludes four miles of expressway standard road which is included in the mileage of Main Roads.

The lengths of the various types	of surfaces on Main
Roads throughout the State at 3	Oth June, 1970 were:
Natural surface	237 miles
Formed only	5,209 miles
Gravel	7,628 miles
Prime	55 miles
Primer seal	134 miles
Sprayed seal	12,693 miles
Slurry seal	4 miles
Bituminous plant mix	994 miles
Cement concrete	136 miles
Total	27,090 miles

Southern Cross Drive, leading to and from Sydney Airport, has been provided with a deep asphalt pavement, up to eight inches thick. This was one of the first major uses of this type of construction in Australia.



bituminous surfacing

The total length of dustless surface on the State's Main Roads System (together with some unclassified roads for which the Department is responsible, generally located in the unincorporated area of the State) is now 14,016 miles. This is an increase of 360 miles during the last twelve months.

During the year, bituminous surfacing work was carried out on:

- 556 miles of State Highways
- 196 miles of Trunk Roads
- 489 miles of Main Roads
 - 12 miles of Secondary Roads
 - 5 miles of Tourist Roads
 - 10 miles of Developmental Roads, and
 - 3 miles of Unclassified Roads.

The total length of 1,271 miles involved 2,652 lane miles or the equivalent of 1,326 miles of normal two-lane road. The Department was the constructing authority for 556 miles (1,205 lane miles) of bituminous surfacing of which 480 miles (1,051 lane miles) were done by direct control and 76 miles (154 lane miles) by contract.

Councils were the constructing authority on behalf of the Department for 715 miles (1,447 lane miles) of bituminous surfacing of which 138 miles (292 lane miles) were done by direct control and 577 miles (1,155 lane miles) by contract.

The work comprised:

74 miles of bituminous plant	
mix surfacing	(249 lane miles)
1,121 miles of sprayed seal	(2,243 lane miles)
36 miles of primer seal	(76 lane miles)
40 miles of prime	(84 lane miles)

The bituminous surfacing carried out during the year was in four categories:

*Initial Surfacing of 339 miles (675 lane miles) of road not previously provided with a dustless surface; *Heavier Treatments, either sprayed seals or plant mix surfacing, provided on 116 miles (235 lane miles) of road pavement previously provided with a light treatment such as a prime or primer seal;

*Restoration of bituminous surfaces following reconstruction

- to widen and/or strengthen the pavement on 95 miles (212 lane miles),
- to provide additional lanes or dual carriageways on 37 miles (108 lane miles), and
- to improve alignment and/or grading on 95 miles (216 lane miles);

**Maintenance Resurfacing* of 589 miles (1,206 lane miles) of road pavement.

maintenance of roads

During the year, Main Roads throughout the State were maintained in a satisfactory condition. The Department ensures that the standard of maintenance is commensurate with the type of road and the volumes of traffic carried.

In the County of Cumberland, the increasing lengths of multi-lane and expressway-type roads have created their own maintenance problems. These include the elimination of sheet flow of water across wide road pavements to prevent vehicles from aquaplaning, the treatment of road surfaces to provide them with adequate skid resistance under wet conditions, the maintenance of landscaped and grassed areas and the removal of litter from within road boundaries. Some older pavements are showing signs of wear and increasing traffic volumes are creating greater demands for maintenance of unsealed shoulders and pavement edges.

In the country, increasing traffic volumes have added to the difficulty of adequate maintenance, particularly on roads with narrow pavements and those which carry large numbers of heavy vehicles. This problem is being accentuated in some areas by the increasing use of large cattle floats and in the Newcastle and Wollongong areas by the continuing increase in the quantity of coal being transported by road.

Heavy rain on the South Coast in November, 1969 caused slips and minor flooding of some roads. A slip on the Hume Highway at Razorback Range closed the road to traffic from 14th November to 4th December, 1969. Traffic was detoured along other Main Roads while repairs to the damaged road were carried out.

Improvement to signposting was actively pursued during the year and new direction, warning and information signs were erected. Where necessary, existing signs were replaced by more appropriate signs.

Snow-clearing operations were carried out during the winter months. Maintenance and snow-clearing of selected unclassified roads in the Kosciusko National Park were undertaken on behalf of the National Parks and Wildlife Service.

Three new roadside rest areas were completed in 1969-70, two on the Hume Highway south of Goulburn and one on the Newell Highway between Forbes and Parkes. At the end of the year thirty-nine roadside rest areas were in use.

During the year, 10,480 miles of roadway were linemarked. With repeat marking of 6,047 miles of more heavily trafficked sections, lane marking of 1,006 miles and edge marking of 1,047 miles, a total of 18,580 miles of linemarking was undertaken.

traffic service

During the year, 12.4 miles of median strip were constructed, mainly in the Sydney Metropolitan Area. The remainder was constructed in the Cities of Newcastle, Goulburn and Tamworth and the Shires of Scone and Lake Macquarie.

Channelised facilities for traffic were completed at 24 intersections and, at the end of the year, work was in progress at a further eleven sites. In addition, designs were prepared for future channelisation of traffic at 57 intersections.

Six special parking bays were provided on Main Roads to permit buses to stop clear of moving traffic. Two of these were in the Sydney Metropolitan Area, two in Broken Hill and two in the Shire of Lake Macquarie.

Climbing lanes for slow-moving traffic were constructed at twelve locations and those at two other sites were lengthened. In addition, work was commenced to provide climbing lanes at a further three sites.

The largest single signposting project undertaken during the year was on the new access route leading to the Sydney (Kingsford Smith) Airport, including South Dowling Street, Kensington, Southern Cross Drive and Wentworth Avenue, Mascot.

Following the completion of experiments with different types of background material for signs, the Department adopted a new type of spray-on, polyeurethene plastic which reduces the adverse effects of background reflectance and is expected to increase the durability of sign backgrounds against weathering. At the same time the background colour of *advance direction signs* and important direction signs has, for aesthetic reasons, been changed from black to dark green.

The use of *reassurance direction signs* is being extended progressively throughout the State whenever new signs are erected at intersections or are renewed. These signs are located beyond intersections and at the outskirts of large towns to give the distances to the next four or five towns through which the road passes. As the name implies, their purpose is to reassure a driver that, having passed through an intersection or large town, he is on the correct road.

Following the successful use of raised reflective pavement markers on expressways in lieu of painted lane lines, the Department has extended the use of these markers to other roads. The principal uses have been to give added delineation to double yellow (no-overtaking) lines at night and for delineation of narrow median strips on sections of curved alignment. Experimental work in this regard is continuing.



Aerial view of the channelised intersection on the Pacific Highway at Tweed Heads at the border of New South Wales and Queensland, looking south.

The special investigation of the sites of fatal accidents on State Highways, which was commenced in 1966, was continued. An analysis has also been made of the accident rates per million miles of vehicle travel for all reported accidents on all rural State Highways and a listing prepared for each Departmental Divisional area showing the lengths of roads where the rates appear to be abnormally high. These lengths of road will be given special investigation to determine to what extent road conditions may have been a contributing cause and what remedial measures may be desirable.

The extension of absolute speed limits to many of the major roads throughout the State has necessitated an accelerated programme of advisory speed surveys, particularly on those roads where the speed limit has been raised from a prima facie 50 miles per hour to an absolute 60 miles per hour. During the year, 2,100 miles of road were surveyed, of which 1,010 miles required re-survey due to new speed limits.

Due to the accelerated programme of advisory speed surveys, work on travel-time surveys had to be restricted during the year. The surveys which were undertaken were confined mainly to "before and after" studies associated with new works, such as the opening of Southern Cross Drive and the construction of the new railway overbridge at Stacey Street, Bankstown. At the beginning of the year traffic counters were installed at 179 permanent and semi-permanent sites. This was increased to 201 during the year. The Department is undertaking a programme of research into traffic counting techniques to improve the accuracy of the methods used in estimating annual average daily traffic volumes from traffic counts of short duration.

elimination of railway level crossings

Seven railway level crossings were eliminated from the Main Roads System during the year. Four of these were eliminated by the construction of overbridges and the closure of railway lines accounted for the other three. The overbridges to replace the level crossings were constructed at the following locations—

Woodville Road (State Highway No. 13) at Villawood.

- Barrier Highway at Muriel Tank, 39.6 miles west of Nyngan.
- Silver City Highway at South Street, Broken Hill.

Trunk Road No. 81 at Gypsum Street, Broken Hill.

The construction of the standard gauge railway line between Broken Hill and Adelaide resulted in the closure of part of the narrow gauge railway network in Broken Hill. In consequence, railway level crossings were eliminated from the Barrier Highway at Bromide and Argent Streets and on Trunk Road No. 66 at Menindee Road.

There remain 389 railway level crossings on Main Roads, comprising 333 on New South Wales Government Railways, 45 on privately-owned railways and 11 on Victorian Government Railways which extend into New South Wales.

During the year, safety conditions were improved at a number of level crossings by the provision of automatically operated flashing lights at six sites, the widening of crossings and their approaches, and the realignment of approaches at other locations.

This bridge carries Woodville Road (State Highway No. 13) over the railway line at Villawood and eliminated the level crossing shown in the background.



land survey and property acquisition

The purchase of property required for roadworks is a major operation, especially in highly developed urban areas, where extensive roadworks are planned to meet traffic requirements.

When the right of way has been determined, action is taken to negotiate the purchase of affected properties. This involves land surveys, preparation of plans for registration at the Registrar General's Office, valuation of properties, negotiations to determine satisfactory settlements and conveyancing procedures.

Surveys are first carried out to establish the new boundaries of the land which has to be acquired to accommodate new and widened roads. To undertake the necessary valuations the Department employs 40 staff valuers and engages the services of 21 private valuers who work on a contract basis. In addition, 50 draftsmen, aided by drawing office assistants, are employed to complete plans from information supplied by the Department's surveyors.

In the year under review, 248 plans, involving 476 separate sheets, were completed and lodged at the Registrar General's Department to enable the Department's proposals to be implemented. Included in the lodged plans were those required in connection with nine realignment proposals affecting seven miles of roads within the County of Cumberland and 28 proposals affecting 49.75 miles in the country areas of the State.

During the year, the Department's operations have been concentrated upon acquiring property in connection with the construction of the Western Expressway in the Penrith area, the South Western Expressway in the Campbelltown area and the Waterfall-Bulli Pass Tollwork. In addition, the assessment of compensation has been undertaken in respect of resumptions for the Western Distributor, the Kings Cross Road project and the William Street Underpass on the Eastern Expressway. Activities in this regard have also been directed to sections of the Great Western Highway and the Princes Highway which are being reconstructed coincidentally with the construction of the Western Expressway and the Waterfall-Bulli Pass Tollwork.

The value of property acquired by the Department during the year amounted to approximately \$8.5 million in the County of Cumberland and approximately \$1.0 million elsewhere in the State. Compensation paid in respect of resumptions at Kings Cross amounted to another \$4.0 million.

This large expenditure on properties and the staff effort in consequent negotiations have meant that of necessity the Department is unable to meet the desires of all who would wish the Department to purchase their properties ahead of the time they are needed for current works programmes.

advance planning

Planning, to determine the future needs of the State's Main Roads System is an essential part of the Department's activities. In this regard the Department, together with other State Road Authorities, has undertaken Road Needs Surveys on behalf of the National Association of Australian State Road Authorities.

It is proposed that a further survey, designated as the Australian Roads Survey 1969-74, be carried out to provide information relating to the effects of the implementation of the Commonwealth Aid Roads Act, 1969 and to assess road needs for a period beyond 30th June, 1974, when the current Act terminates. Planning for the survey was commenced by the National Association of Australian State Road Authorities, in conjunction with the Commonwealth Bureau of Roads, in the early part of 1970 and the Department is taking part in this planning phase.

Work has continued in connection with the statistical investigation of road construction costs, with the object

research and materials testing

The construction of modern roads requires constructing authorities to undertake considerable and continuing research into new techniques and developments, and to carry out tests on materials used, in order to ensure that the highest possible standard of road pavement is provided for the high performance cars and heavy commercial vehicles now using them. This is a very important phase of the Department's operations.

The Materials and Research Laboratory is situated at Milson's Point and in addition there are 25 field laboratories operating at sixteen Divisional and nine Works Offices.

During the year, a new laboratory was erected at Wagga Wagga and another formed the major part of extensions to the Divisional Office at Newcastle. Three new laboratories were established for the testing involved in expressway construction and were located at St. Marys, Campbelltown and adjacent to the Western Distributor construction site in the City of Sydney.

The number of tests carried out at the Material and Research Laboratory, during the year, was 53,350. The main materials processed were soils, gravels, aggregates, concrete, bitumen, bituminous mixes, paints, steel and rubber bearings. The number of samples processed at Divisional and Works Office laboratories was 50,959. This involved about 219,460 tests, the majority of which were on soils and gravels.

Apart from this testing of the many types of materials used in road engineering, an extensive programme of research is being carried out continuously. During the year, investigation was continued into the performance of flexible pavements to verify the validity of the design criteria. As a result of these investigations, new interim of compiling a road construction price index. Further examination of the economic evaluation of road improvements has been made during the year.

Computing and data processing for technical purposes is carried out on a computer located in the Department's Advance Planning Section. In July, 1969 additional core storage was provided to increase computing speed and to simplify programming. This has enabled the Department to make greater use of the computer within normal working hours. An Automatic Drafting System, coupled to the computer, was installed in May, 1970 and, by the end of June, this was being used for survey plan drafting.

In order to expedite the survey computations required in connection with urban expressway construction, a computer terminal was installed in the site office for the construction of the Western Distributor in the City of Sydney.

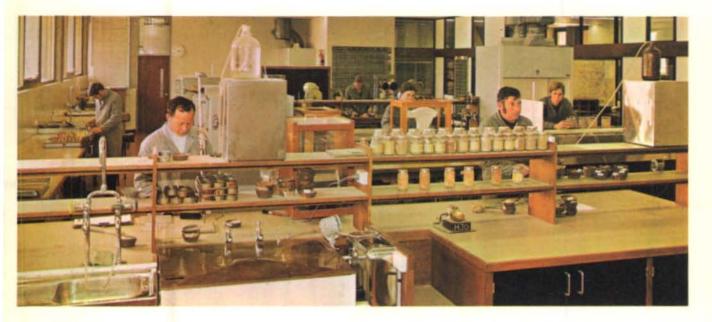
Technical data processing throughout the year was principally in the fields of bridge design, traffic analysis, cadastral and photogrammetric survey, road inventory, road investigation and library records.

standards were introduced for gravels to be surfaced with bitumen in arid regions. These standards allow for a progressive relaxation of *plasticity indices* and *particle size distribution* west of the 20 inch isohyet, that is, in the western half of the State. The new criteria are applied only where drainage conditions are good and it is modified to suit locations where there are abnormal influences on moisture conditions (e.g. in the vicinity of irrigation channels).

Research into the properties of fine crushed rock materials, used for pavement construction in Sydney and nearby areas, was also continued with the object of developing test procedures to discriminate between materials expected to perform satisfactorily and those prone to deteriorate rapidly in service, and to devise ways of stabilising such materials. A related subject, predicting the performance of shales for use in pavements, was also studied and six Divisional laboratories were equipped to do methylene blue absorption testing to investigate the correlation with performance. Experiments so far carried out verified the effect of a number of organic compounds on the compaction characteristics of soils and gravels, and indicated the possibility of achieving a significant reduction in the amount of water required for compaction purposes. Further testing is being undertaken.

Investigations into the properties of binders, aggregates and mixes for special purposes (e.g. skid resistant surfacings) were continued, as well as various processes, such as the use of foamed bitumen for producing a surfacing material for lightly trafficked roads and for stabilising base materials.

The results of research into problems associated with the crystallisation of soluble salts under primer seals were documented and these have been submitted together with a number of other papers, for presentation at the Fifth Biennial Conference of the Australian Road Research Board.



Above and right; The physical and chemical testing of materials, such as soils, gravel, aggregate and concrete, is carried out at a number of country centres, including the Department's new laboratory at Wagga Wagga. The laboratory is of contemporary architectural design and modern testing equipment and facilities are provided.



Below; An increasing amount of the Department's accounting and commercial procedures is being undertaken at this computer centre, which is being linked to all Divisional and Works Offices.



industrial relations and training

The Department's operations are carried out on a statewide basis and it employs a considerable work force.

At the close of the year, a total of 14,975 persons was employed on Main Roads works. They comprised 9,442 direct employees of the Department, 1,718 employed by contractors to the Department, and 3,815 employed by Shire and Municipal Councils and by contractors to Councils.

Throughout the year harmonious relations continued between the Department and its employees and no major industrial dispute occurred.

Service Training

Four senior officers of the Department were sponsored to attend Administrative Staff Courses at the Australian Administrative Staff College at Mt. Eliza, Victoria, and at the Institute of Administration, University of New South Wales. A total of 50 Departmental officers has now been sponsored to such courses.

The Department's policy of encouraging its officers to attain recognised external tertiary qualifications to fit them for more responsible duties was maintained during the year.

Details of the studies undertaken were:

Full-time Students: 117 trainees were sponsored at the Universities of Sydney, New South Wales and New-castle undertaking degree courses in Arts, Engineering, Surveying and Science.

Part-time Students: 749 officers undertook study at various educational institutions in 28 different courses. Scholarships: Five scholarships were awarded to clerical officers to complete their part-time studies in Commerce, Arts, Public Administration and Information Processing.

Apprentices: 94 employees were indentured in the Department in ten trades.

In addition, the Department conducted in-service training courses at its Training Centre, Head Office. A total of 403 persons comprising clerical officers, typists, machine operators and foremen attended courses during the year. In addition two officers attended courses in shorthand conducted by the Public Service Board. A further 303 newly appointed officers received instruction in accordance with the Department's Formal Induction Programme. The Department's Training Officers visited field offices to provide instruction on the introduction of the Computerised Payroll and Stock Control Systems and to provide "follow-up" training to that provided in the Training Centre.

School for Technical Training

Five separate courses were conducted by the School for Technical Training during 1969-70. Details of these courses are as follows:---

Divisional Seminars: A programme of ten technical and administrative subjects was produced and seminars were held at the following centres throughout the State — Sydney, Newcastle, Tamworth, Grafton, Goulburn, Parkes, Wagga Wagga, Bourke and Broken Hill. Two weeks before these seminars, lecture notes were despatched to participating engineers attached to Divisional Offices. The Engineer for Technical Training, together with the Asphalt Engineer and the Assistant Industrial Officer attended each seminar and directed the group discussions.

Residential Course for Field Engineers: A two-week residential technical training course for 30 field engineers was held at the Residential Centre of the University of New South Wales at Little Bay in December, 1969.

Induction Course for Graduands: An induction course for the Department's graduand engineers, surveyors and analysts was held in Head Office on 9th December, 1969. During the day the graduands were addressed by the Department's senior officers on the functions of the Department.

In-service Training for Road Foremen: The first inservice training for road foremen was commenced in 1970. Twenty-eight senior road foremen were selected and three months before the commencement of formal lectures these foremen commenced a correspondence course of about twenty papers. Three one-week sessions of face-to-face lectures were held later, supplemented by group exercises and site visits. Three more such courses will be required to cover the Department's present staff of road foremen.

In-service Training for Bridge Foremen: Early in 1970, twenty-four senior bridge foremen participated in the Department's first in-service training programme for this type of work. Two more such courses will be required to cover the Department's present staff of bridge foremen.

Training of Plant Operators

The training of plant operators has been carried on as in previous years by an establishment of six foremen, who are based at the Department's Central Workshop, Granville, and make instruction trips of up to three weeks duration to Works Offices throughout the State. The policy of training potential plant operators, to be available as relief operators when required, has been continued.

At least two visits were made to each Works Office during the year, and instruction given to a total of 835 operators, some operators being instructed more than once, or on more than one type of machine. The standard of plant operation is improving and operators are staying longer with the Department.

divisional administration

The Department's responsibilities in the field are exercised by Divisional Engineers, who supervise all works on Main Roads throughout the State, including those under the Department's direct control and those carried out by Councils.

At present, there are eighteen Divisional Engineers within the Department. Fourteen have their Divisional headquarters in country centres and two are located in the Sydney Metropolitan Area. The remaining two are responsible for expressway construction.

This decentralised administration, established in 1928, facilitates close co-operation with Shire and Municipal Councils and ensures that local needs and conditions are constantly under observation.

Field works undertaken by the Department are controlled from Works Offices, the Works Engineer at each office being responsible to the Divisional Engineer concerned. The locality of these Works Offices, especially those engaged mainly on construction, is changed from time to time as major works are undertaken in different areas.

The Divisional Engineers and the headquarters of the Divisions as at 30th June, 1970 were as follows:-

		Divisional
Division	Headquarters -	Engineer
22 - W		
Metropolitan	Milson's Point	B. J. Sexton
Parramatta	Parramatta	L. R. Browne
Central Mountains	Lithgow	J. H. Dearden
Illawarra	Wollongong	G. A. Thompson
Hunter Valley	Newcastle	E. M. Brown
Lower North Coast	Port Macquarie	T. P. Desmarchelier
North Eastern	Grafton	W. J. Brecht
Upper Northern	Glen Innes	B. Moon
North Western	Tamworth	K. Edgar
Central Western	Parkes	N. A. Waslin
Central Northern	Bourke	R. A. Dubedat
Murray Darling	Broken Hill	D. H. Francis
Central Murray	Deniliquin	L. R. James
South Western	Wagga Wagga	C. N. Penney
South Coast	Bega	E. K. Twartz
Southern	Goulburn	J. B. Anderson
Inner Expressway	Head Office	H. B. Korff
Construction		
Outer Expressway	Head Office	E. King
Construction		A MARKAN PARTICIPAL

plant and motor vehicles

The Department is a major constructing organisation and, consequently, the use of a wide variety of mechanical equipment plays a major role in its operations.

Plant to the value of more than \$3.7 million and motor vehicles to the value of more than \$1 million were purchased by the Department during the year to replace existing items and to provide for additional needs.

Following detailed investigations overseas, the Department ordered a Dual Lane Automatic Trimmer Spreader from the United States of America. This machine is capable of trimming sub-grades, spreading and trimming road base material and paving with asphalt up to three miles per day to a width of 24 feet. With additional equipment and spare parts, the machine cost approximately \$201,000. The Department proposes to use this equipment on its extensive expressway construction programme.



This linemarking machine was designed by the Department and manufactured at its Central Workshop, Granville.

The Department's Central Workshop, located at Granville, continued its activities in plant repairs, ferry overhauls, manufacture of signs, property repairs and building work, plumbing, electrical and transport services as well as extensive structural steelwork for use in bridge construction. A total of 6,381 jobs were completed by the Workshop during the year at a cost of \$2,737,485. A project of special significance was the design, manufacture and erection of movable toll cabins required for the introduction of one-way toll collection on the Sydney Harbour Bridge.

During the year, new workshops were established at Cooma and Wilcannia and there are now 41 workshops located throughout the State where field repairs and services are carried out.



road planning and location

The review of outline designs for new expressways and surface roads contained in the Main Roads Development Plan, within the County of Cumberland, was continued during the year. Included in this review were the Eastern Distributor and Eastern Expressway and segments of the Castlereagh, Warringah, North Western, South Western and Southern Expressways.

Similarly, road location studies and the fixing or revision of road boundaries was continued in the Newcastle and Wollongong-Port Kembla areas.

In the country, 458 miles of road location proposals were developed or examined, including 175 bridge sites. The location for 191 miles of road and 85 bridge sites was finalised. The locations of rural expressways completed included the South Western Expressway between Menangle and Bargo and the Sydney-Newcastle Expressway between Somersby and Doyalson.

The location of State Highways around or through major towns and cities is one aspect of special significance being considered by the Department. Consideration is given to town planning and land use proposals, as well as future traffic desire lines and road engineering requirements. In some instances, it is apparent that the future route of the highway should pass around the urban area, with special access routes provided into it. In other cases, the highway could pass through the urban area with grade-separated intersections to provide access to the local street system.

The Department's helicopter is used extensively for the field examination of road proposals and has proved to be invaluable in this aspect of the Department's work.

During the year, written enquiries regarding the effect of the Department's road proposals on property were dealt with at an average rate of 8,000 per month. This service was provided free of cost to the applicants.

weights of loads on main roads

Overladen vehicles are the cause of serious damage to road pavements. Ordinance No. 30C of the Local Government Act, 1919 limits the gross load and individual axle loads for vehicles using Main Roads. The Department employs a number of Field Inspectors to check vehicles for overloading under this Ordinance. The Department's main concern in this regard is the protection of the pavements of Main Roads from damage.

During the year, a total of 43,729 vehicles were stopped and 7,960 vehicles, or 18.2%, were found to be loaded in excess of the limits. Prosecutions were undertaken in the majority of these cases; 5,613 convictions were recorded and appropriate penalties were imposed.

In cases where it is necessary to move excessively heavy freight of an indivisible nature, special permits are issued to cover these movements and during the year 5,866 permits of this nature were issued. This particular phase of the work is done with the close co-operation of the New South Wales Police Traffic Branch.

The Department offers advice to the motor industry by means of forms which set out the requirements of Ordinance No. 30C and allow assessment of the weight that may be permitted to be carried on a particular vehicle. It also assists Councils who desire to enforce Ordinance limits within their areas.

During the years that the Department has been operating under these regulations, there has been a marked drop in weight of loads offences. There has also been evidence of a resultant decrease in the cost of maintenance of road pavements and bridges from damage through overloaded vehicles. However, the present percentage of overloaded vehicles still reflects a regrettable lack of co-operation from some owners and drivers.

legislation

The Main Roads and Sydney Harbour Bridge (Administration) Amendment Act, 1970, was assented to on 26th March, 1970.

This Act amended the Main Roads Act, 1924, to authorise the proclamation of a work designed to facilitate the movement of motor traffic between Sydney and Wollongong as a toll work. On the proclamation of a toll work the provisions of the Main Roads Act provide for its construction and maintenance, the payment of the cost of this work and the levying of tolls to be applied towards those costs.

The Main Roads Act, 1924, was further amended by deleting references to the expired Commonwealth Aid Roads Act, 1964, and by inserting appropriate provisions to give effect to the Commonwealth Aid Roads Act, 1969, which replaced it. In particular, provision was made for the creation of a Commonwealth Aid Roads Fund for the receipt of moneys made available to the Department under the Commonwealth Act and for its expenditure on Main Roads in accordance with the specific requirements of the Commonwealth Act.

The Main Roads and Sydney Harbour Bridge (Administration) Amendment Act, 1970, also amended the Sydney Harbour Bridge (Administration) Act, 1932, to authorise the making of regulations which would provide for the payment of tolls only by drivers of vehicles crossing the Sydney Harbour Bridge in a prescribed direction.

The amendments to the Sydney Harbour Bridge (Administration) Act, 1932. were brought into effect by proclamation on 3rd July, 1970, and on that day also the Regulations made under that Act were amended to provide for the payment of toll only by drivers of vehicles crossing the bridge in a southerly direction. A further amendment to the Regulations authorised the use of automatic toll collection machines on the Sydney Harbour Bridge.

public relations

As a public authority, the Department has a responsibility to keep the people of New South Wales fully informed of its work.

The public relations activities undertaken by the Department are aimed to provide information to as many members of the community as possible. Therefore, in order to appeal to the different interests of the public and to stimulate appreciation of the Department's achievements as well as of the extent of the tasks facing the Department, the public relations service uses a variety of means of expression suitable for a variety of situations. These include visual displays, incorporating both still and movie photographic records and scale models, special functions, such as official opening ceremonies and many forms of printed material.

Regular news releases are made to press, broadcasting and television stations concerning important works that are proposed, about to be commenced or to be tendered for, the progress of works under construction, and when works will be completed and opened to traffic. During the year, approximately fifty such releases were made. The Department also provides information to the Police Department, National Roads and Motorists Association, and members of the public whenever reports are received that sections of the Main Roads System are cut by flood waters, snowfalls, etc.

A photographic record is kept at the Department's Head Office of the major road and bridge works which are undertaken throughout the State. An increasing amount of this work is now recorded on colour as well as on black and white film. These photographs are made available on request to the press and publishers of technical magazines.

Suitably enlarged, these photographs and colour transparencies form the nucleus of most of the Department's displays and exhibits. They are generally supplemented by artist's impressions and scale models of future works. These displays are usually arranged in conjunction with the annual shows at major towns and cities and at school fetes or similar functions. During 1969-70, the Department provided exhibits at the Royal Easter Show, Sydney, Careers Exhibitions at Sydney and Newcastle, and at Annual Shows at Wollongong, Bega, Parkes and Wagga Wagga. In addition, a decorated float was entered in the 1969 Waratah Festival procession.

Many of the Department's construction projects are complex and, to aid both technical and aesthetic appreciation of the proposals, they are reproduced in scale model form. These models graphically illustrate the Department's proposals to Councils, other authorities and the general public, and play an important role in their acceptance. A permanent display of scale models, supported by photographic and cartographic illustrations, is located on the third floor of the Department's Head Office. This display room is open to the public during office hours. Models currently on display include the first section of the Western Distributor, tentative layout of the Eastern Distributor between the Art Gallery and Moore Park, section of the Lane Cove Valley Expressway from Fig Tree Bridge to Epping Road, proposed traffic relief route to north and east of Orange, proposed new bridge over Bega River and approaches, proposed new bridge over Murrumbidgee River at Gundagai and approaches, and proposed new bridge over Brisbane Water at the Rip.

The Department has a library of over seventy 16mm movie films, dating from a number made by the Main Roads Board in 1928 to those produced recently by the Department on the Sydney-Newcastle and Warringah Expressways. A 20-page catalogue of these films is available. New films are at present being produced on the first section of the Western Distributor, the new bridge to link Stockton Peninsula and Kooragang Island at Newcastle and on the general activities of the Department. Many organisations take advantage of the service which the Department provides for the screenings of these films. In addition, arrangements are made on request for Departmental officers to address interested organisations and groups on matters relating to Main Roads.

During the year, special ceremonies were held for the official opening to traffic of the following new bridges:

- "L. H. Ford Bridge" over Macquarie River at Dubbo 26th September, 1969
- Bridge over Myall River at Bulahdelah 24th November, 1969
- "Irrawang Bridge" over Hunter River at Raymond Terrace — 20th March, 1970
- Bridge over Lake Forbes at Forbes 20th April, 1970.

A number of new publications were printed during the last twelve months and included a leaflet entitled "Keep Your Highways Clean", revised "Careers" and "Apprenticeships" brochures, a 32-page brochure entitled "All About Roads", a sketch map showing "Planned Expressways in the County of Cumberland" and four maps of New South Wales printed together and showing "Classifications of Main Roads", "Types of Surface", "Travel Times" and "Mileages" on Main Roads. New editions of "A Schedule of Descriptions of Classified Roads and Works" and "General Conditions of Assistance to Councils" were also printed.

The Department's Journal "Main Roads" continued to be published quarterly and a special issue was produced in June, 1970 for the Captain Cook Bi-Centenary Celebrations. The Journal is distributed widely throughout Australia and overseas and is available to the public on an annual subscription basis.

library service

The Department's library service comprises the Head Office Library and seventeen branch libraries in Divisional Offices located throughout the State and in the Materials and Research Laboratory at Milson's Point.

It is essentially a technical library relating to all aspects of highway engineering and associated subjects. For several years the library service has been operating on a punched card system.

During the year, 2,566 books, pamphlets and standards were added to the library service, bringing the total holdings to 31,867 publications. Subscriptions were placed for an additional 21 periodical titles and this brought the total number of periodical titles received to 408.

The library circulated 19,743 new periodicals to the staff, lent 9,658 items from stock, and issued five library bulletins during 1969-70.

national association of australian state road authorities

The National Association of Australian State Road Authorities is an organisation of the central road authorities in the six States together with the Commonwealth Department of Works, which is the road constructing authority for the Commonwealth Territories.

The Association, established in 1934, serves to provide a means of pooling technical and administrative experiences; of inaugurating, co-ordinating and rationalising road research projects; of harmonising and co-ordinating standards; of ascertaining and publishing facts about Australia's principal roads and their financing; and of developing an informed outlook on Australia's road problems.

Several publications were issued during the year giving results of experiences and advising standards for adoption as opportunity permits.

Three meetings of the Association were held during the year and were attended by the heads of the State Road Authorities of the six States and the head of the Commonwealth Department of Works. The Secretary of the Commonwealth Department of Shipping and Transport and the Chairman of the Commonwealth Bureau of Roads also attended sessions of these meetings.

The Principal Technical Committee comprising the senior technical officers of the several authorities and the Secretarial and Accounts Committee each met twice during the year and they were assisted by meetings of the several technical committees dealing with specialist activities. Representatives from the Commonwealth Department of Shipping and Transport, the Commonwealth Bureau of Roads, the Commonwealth Scientific and Industrial Research Organisation also attended a number of these meetings.

missions abroad

During August and September 1969, the Assistant Commissioner for Main Roads, Mr. A. F. Schmidt, accompanied by an Administrative Officer, Mr. C. W. Mathews, travelled overseas to study and observe road and bridge construction procedures in the United States of America, United Kingdom, Europe and the East. During their visit to the United States they attended the Western Summer Meeting on Highway Safety at Salt Lake City. In the latter part of 1969 the Commissioner for Main Roads, Mr. R. J. S. Thomas, accompanied by the then Deputy Engineer-in-Chief, Mr. G. V. Fawkner, undertook a tour of Japan to study recent developments in expressway construction including administrative procedures for construction projects.

In April, 1970 Mr. W. D. Smith, a Mechanical Engineer and Mr. A. G. Kennedy, a Civil Engineer, visited the United States of America for a period of four weeks to inspect and to report upon dual-lane automatic trimmer spreaders. Subsequent to their evaluation the Department placed an order for one of these machines for use on its expressway projects.

australian road research board

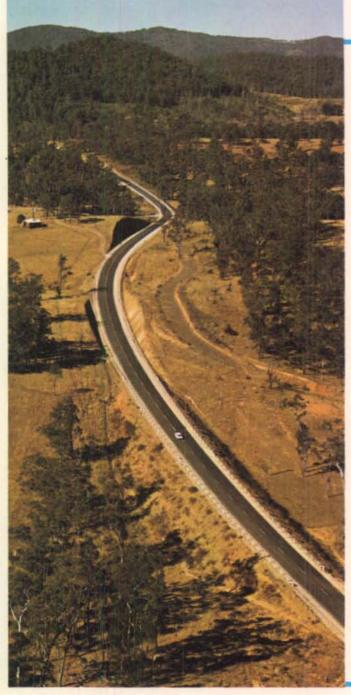
The Australian Road Research Board was established in 1960 by the National Association of Australian State Road Authorities. In 1965 it was registered as a public company, the members and directors being the executive heads of the six State Road Authorities and the Commonwealth Department of Works.

An advisory council and various specialist committees have been formed to assist in the operation of the Board's research activities. A Local Government Engineers Committee was recently established to advise on avenues of research which are of interest to local government.

Research is carried out directly by the Board as well as sponsored at universities and other institutions. Work has continued during the year on Traffic Flow Analysis, Traffic Control Division, Human Factors, Accident Analysis and Driver Characteristics, Transport Surveys (including Economic Studies) and Analysis of Materials for Road Structures.

The Sixteenth Meeting of the Board of Directors was held in Melbourne in May, 1970 and at this meeting Mr. I. J. O'Donnell, Chairman of the Country Roads Board, Victoria was appointed Chairman and Mr. A. S. Reiher, Director-General of the Commonwealth Department of Works was appointed Deputy Chairman of the Board for the year 1970-71.

The headquarters of the Board are at present located in the offices of the Country Roads Board, Victoria but arrangements are in hand for the construction of its own permanent headquarters.



acknowledgements

In concluding this report of the activities of the Department of Main Roads for the financial year ended 30th June, 1970, I extend appreciation to the Hon. P. H. Morton, M.L.A., Minister for Local Government and Minister for Highways, for his consideration and support.

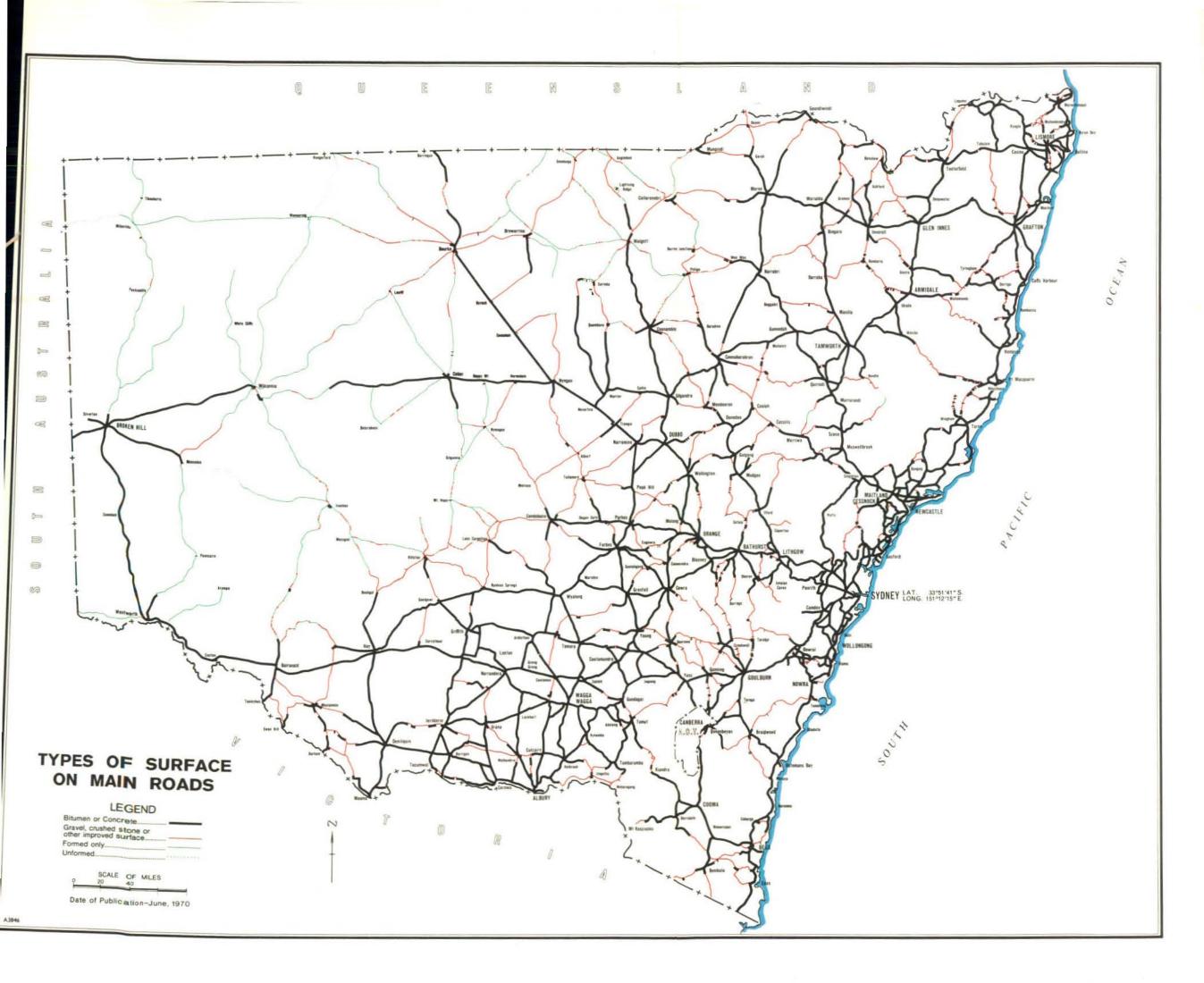
I wish to recognise the co-operation of Municipal and Shire Councils throughout the State. I desire also to record appreciation for the co-operation and assistance of Government Departments, State Instrumentalities, the Executive Committees of the Local Government and Shires Associations, and the Road Authorities of other States.

For their assistance in reporting the work being carried out by Councils and by the Department in improving the Main Roads of the State, I again thank the press, broadcasting and television organisations and other media throughout the State.

In conclusion, I desire to express appreciation of the loyalty and able assistance which has been given so willingly by officers and employees in the Department, in service to the people of New South Wales through the extension, improvement and maintenance of the State's Main Roads System. It would be ungenerous not to mention the retirement of several officers over the past year. It is now forty five years since the Main Roads Board was established in 1925 and the stage has been reached whereat many dedicated officers and employees who have given their whole working life to the Service are retiring due to age limitations. To their efforts we all owe much both in actual work and inspiration for the future.

> R. J. S. THOMAS COMMISSIONER FOR MAIN ROADS

Oxley Highway, near Ellenborough, approximately 34 miles west of Port Macquarie.



Inside back cover: Map of New South Wales showing Types of Surface on Main Roads

next year's major works

ROADS

NORTH WESTERN EXPRESSWAY SOUTH WESTERN EXPRESSWAY SOUTHERN EXPRESSWAY SYDNEY-NEWCASTLE EXPRESSWAY WARRINGAH EXPRESSWAY WESTERN DISTRIBUTOR WESTERN EXPRESSWAY KINGS CROSS ROAD PROJECT BARRIER HIGHWAY GREAT WESTERN HIGHWAY MITCHELL HIGHWAY OXLEY HIGHWAY

BRIDGES

BEGA RIVER AT BEGA BELLINGER RIVER (SOUTH ARM) AT URUNGA BRISBANE WATER AT THE RIP COOK'S RIVER AT ARNCLIFFE GEORGE'S RIVER AT ALFORD'S POINT HAWKESBURY RIVER AT ALFORD'S POINT HAWKESBURY RIVER AT MOONEY MOONEY HUNTER RIVER (NORTH ARM) AT STOCKTON LAKE ILLAWARRA AT WINDANG MACQUARIE RIVULET MURRUMBIDGEE RIVER AT BALRANALD MURRUMBIDGEE RIVER AT BALRANALD MURRAY RIVER AT ECHUCA NEPEAN RIVER AT CAMDEN NEPEAN RIVER AT REGENTVILLE WILSON RIVER AT TELEGRAPH POINT

annual report 1969-70



department of main roads new south wales



SUPPLEMENT

to

REPORT

of the

COMMISSIONER FOR MAIN ROADS

for the

Year ended 30th June, 1970

DEPARTMENT OF MAIN ROADS, NEW SOUTH WALES SUPPLEMENT

to

FORTY-FIFTH ANNUAL REPORT

of the

COMMISSIONER FOR MAIN ROADS Year ended 30th June, 1970

CONTENTS

										Page
Classification of Roads			••••	•···•				••••		6
County of Cumberland Road	l Cons	truction-								
State Highways				• • • •						6
Ordinary Main Roads										7
Secondary Roads				• · · · •					••••	9
Tourist Roads	• • • •			••••	•••••	••••				10
Roads other than Main	Road	ls				••••				10
Country Road Construction-	_									
State Highways		•···•					••••			11
Trunk Roads							.			16
Ordinary Main Roads				••••						18
Developmental Roads a	and De	evelopme	ental W	orks			• • • •	••••		23
Tourist Roads	••••	••••			•••••					24
Bridge Construction—										
General					• • • •					24
Principal Bridgeworks										24
Principal Bridgeworks i	-									26
Principal Bridgeworks C	-	-								26
Maintenance of Bridges and			_			1				28
-				••••			• • • •			
Elimination of Railway Lev	el Cro	ossings o	n Maiı	n Roads						30
Traffic Service—										
Median Strips	••••			••••		••••				31
Channelisation of Inter-	section	s								31
Bus Bays			••••						• • • •	32
Climbing Lanes on Hill	s							••••		32
Signposting and Roadsi	de Fu	rnishings	• • • • •	• • • • •						33
Advisory Speed Signs	••••		••••		••••				••••	33
Accident Analysis and	Investi	gation			••••					33
Travel-Time Surveys	••••	••••	••••			••••	••••		••••	33
Plant and Motor Vehicles										33
Central Workshop	••••	••••								34
Field Workshops	• • • •			••••						34
Bituminous Surfacing—										
Bituminous Surfacing co	omnlet	ed durin	o th≏ `	Year						
Scheduled accordin	-		-							35
Scheduled accordin										38
	-			an chiront		Countrib			••••	50
Types of Surfaces as at				ationa						40
Scheduled according	-				••••				••••	40 41
Scheduled according	ig io	parim	CHUS L	MA1210112	• • • • •					41

										Page
Instruction in Plant Maint	enance a	and Ope	ration	••••		••••		••••		42
Research and Materials T	esting			••••		••••	••••	••••		42
Widening of Metropolitan	Main	Roads		••••				••••		43
Widening of Rural Road	Reserve	s		••••	•••••					44
Advance Planning	••••	••••		••••	••••	••••	••••			44
Planning for Development gong	of the l	Main Ro	oads Sy	stem in	n Sydne	y, New	castle :	and Wo	ollon-	44
Country Road Location, I	Investigat	tion and	Aerial	Photog	graphy		••••		••••	45
Road Traffic Surveys										45
Employment and Industri	ial				••••			••••		51
Office Premises and Housi	ng for Si	taff								51
Sydney Harbour Bridge-										
Financial Position						••••		••••		52
Traffic			••••		••••		••••			52
Maintenance									••••	53
Regulation of Weights of	Loads or	n Main I	Roads							53
National Association of A	ustralian	State R	load Au	uthoritie	es					54
Australian Road Research	Board									55
Miscellaneous—										
Visitors from Overse	as	••••				<i>.</i>			••••	56
Army Supplementary	Reserve	e Unit	••••	••••						56

APPENDICES

Apper No		Р	Page
٦	1 (A)) Commonwealth Aid Roads Fund—Statement of Receipts and Payments for the year ended 30th June, 1970	57
	(B)) County of Cumberland Main Roads Fund—Statement of Receipts and Pay- ments for the year ended 30th June, 1970—	
		(i) General Purposes	57
		(ii) Special Purposes	57
•		(iii) Reserve for Loan Repayments	58
	(C)) Country Main Roads Fund—Statement of Receipts and Payments for the year ended 30th June, 1970—	
		(i) General Purposes	58
		(ii) Special Purposes	58
		(iii) Reserve for Loan Repayments	59
	(D)) Developmental Roads Fund-Statement of Receipts and Payments for the year ended 30th June, 1970	59
	(E)) Sydney Harbour Bridge Account—	
,	()	(i) Income and Expenditure Account	59
1 ·		(ii) Appropriation Account	59
ł		(iii) Reserve Account	59
		(iv) Balance Sheet	60
	2 (A) Commonwealth Aid Roads Fund—Statement of Receipts and Payments for the Five Years ended 30th June, 1970	60

3

ī

Appendix No.

ı.

79

2 (B)									
	County of Cum ments for	berland Main Road the Five Years end	s Fund- ed 30th	-Staten June, 1	nent of 970—	Recei	pts and	Pay-	
		General Purposes					••••		60
	• •	Special Purposes							61
	(11)	opeciai i urposes		••••		••••	••••		01
(C)	Five Yea	Roads Fund—Statem rs ended 30th June	ent of , 1970–	Receipt	ts and	Paym	ents for	the	
	(i)	General Purposes							61
	(ii)	Special Purposes					••••		61
· (D)	Developmental Five Year	Roads Fund—States rs ended 30th June,	ment of 1970	Receip	ots and	Paym	ents fo	r the	62
(E)	Total All Roa Years end	ds Funds—Statemen led 30th June, 1970–	t of Re	ceipts a	nd Pay	ments	for the	Five	
	(i)	General Purposes							62
		Special Purposes							62
	(1)	special raipetes		••••		• • • •		••••	02
(F)	Sydney Harbour the Five	r Bridge Account—S Years ended 30th Ju	tatement ne, 197	t of Inc 0	ome ar	nd Exp	oenditur	e for	63
3	Summary of L	on Lighiliting Ligh	ilitian to	the Ct	ata Tra				62
3	Summary of LC	oan Liabilities—Liab	inties to	the St	ate Tre	asury	••••	• • • •	63
4	Summary of Lo Main Roa	an Liabilities—Loan ads Act		vings u		ection	42A o	f the	64
5		s Raised during the young the young the young the young the section 42A of the section 42						Bor-	64
	0-					• • • • • •		••••	Ŭ,
6	Details of Outst Section 4	anding Loans as at 3 2A of the Main Ro	30th Jur ads Act	ne, 1970	Loar	n Borr	owings 1 	under	64
6A	Deteile of Issue		'n						
UA	Details of Inve				- 4 2041	Τ	1070	т	
	Borrowing								
	Borrowing	gs under Section 42A							66
7		gs under Section 42A	of the	Main R	oads A	ct			66
7	Commonwealth	gs under Section 42A Aid Roads Fund—S	of the ummary	Main R of E	oads A xpendit	.ct	 om De		66
	Commonwealth ment's F	gs under Section 42A Aid Roads Fund—S unds on Constructio	of the ummary	Main R of E	oads A xpendit	.ct	 om De		66
	Commonwealth ment's F O County of Cur	gs under Section 42A Aid Roads Fund—S unds on Constructic nberland Area—	of the ummary on and J	Main R of E Reconst	oads A xpendit ruction	ure fr Work	 om De		66
	Commonwealth ment's F O County of Cur	gs under Section 42A Aid Roads Fund—S unds on Constructio	of the ummary on and J	Main R of E Reconst	oads A xpendit ruction	ure fr Work	 om De		66 67
	Commonwealth ment's Fi) County of Cun (i)	gs under Section 42A Aid Roads Fund—S unds on Constructic nberland Area—	of the ummary on and J	Main R of E Reconstr	oads A xpendit ruction	ure fr Work	rom De s	part-	
	Commonwealth ment's F County of Cur (i) (ii)	gs under Section 42A Aid Roads Fund—S unds on Construction nberland Area— Expressways State Highways	of the ummary on and J	Main R of E Reconstr	oads A xpendit ruction	ure fr Work	rom De s		67 67
	Commonwealth ment's F O County of Curr (i) (ii) (iii)	gs under Section 42A Aid Roads Fund—S unds on Construction nberland Area— Expressways State Highways Ordinary Main Ro	of the ummary on and l ads	Main R of E Reconstr 	oads A xpendit ruction	ure fr Work	De s	 part- 	67 67 68
	Commonwealth ment's F O County of Cur (i) (ii) (iii) (iii) (iv)	gs under Section 42A Aid Roads Fund—S unds on Construction nberland Area— Expressways State Highways Ordinary Main Ro Secondary Roads	of the ummary on and l ads	Main R of E Reconstr 	oads A xpendit ruction	ure fr Work	rom De s		67 67 68 70
	Commonwealth ment's F O County of Cur (i) (ii) (iii) (iii) (iv)	gs under Section 42A Aid Roads Fund—S unds on Construction nberland Area— Expressways State Highways Ordinary Main Ro	of the ummary on and l ads	Main R of E Reconstr 	oads A xpendit ruction	ure fr Work	De s	 part- 	67 67 68
(A)	Commonwealth ment's F County of Cur (i) (ii) (iii) (iv) (v)	gs under Section 42A Aid Roads Fund—S unds on Construction nberland Area— Expressways State Highways Ordinary Main Ro Secondary Roads Roads other than M	of the ummary on and l ads	Main R of E Reconstr 	oads A xpendit ruction	ure fr Work:	De s	 epart- 	67 67 68 70
(A)	Commonwealth ment's F County of Cur (i) (ii) (iii) (iii) (iv) (v) Country Urban	gs under Section 42A Aid Roads Fund—S unds on Construction nberland Area— Expressways State Highways Ordinary Main Ro Secondary Roads Roads other than M Areas—	of the ummary on and J ads Iain Roa	Main R of E Reconstr 	oads A xpendit ruction	ure fr Work:	De s	 part- 	67 67 68 70 70
(A)	Commonwealth ment's F O County of Curr (i) (ii) (iii) (iii) (iv) (v) Country Urban (i)	gs under Section 42A Aid Roads Fund—S unds on Construction nberland Area— Expressways State Highways Ordinary Main Ro Secondary Roads Roads other than M Areas— Expressways	of the ummary on and J ads Iain Roa	Main R of E Reconstr 	oads A xpendit ruction	ure fr Work:	De s	 epart- 	67 67 68 70 70 70
(A)	Commonwealth ment's F O County of Cur (i) (ii) (iii) (iv) (v) Country Urban (i) (ii)	gs under Section 42A Aid Roads Fund—S unds on Construction nberland Area— Expressways State Highways Ordinary Main Ro Secondary Roads Roads other than M Areas— Expressways State Highways	ads (ain Roa	Main R of E Reconstr ads	oads A xpendit ruction 	ure fr Work:	De s	 part- 	67 67 68 70 70
(A)	Commonwealth ment's F O County of Cur (i) (ii) (iii) (iv) (v) Country Urban (i) (ii)	gs under Section 42A Aid Roads Fund—S unds on Construction nberland Area— Expressways State Highways Ordinary Main Ro Secondary Roads Roads other than M Areas— Expressways	ads (ain Roa	Main R of E Reconstr ads	oads A xpendit ruction 	ure fr Work:	De s	 part- 	67 67 68 70 70 70
(A) (B)	Commonwealth ment's F O County of Cur (i) (ii) (iii) (iv) (v) Country Urban (i) (ii) (ii) (iii)	gs under Section 42A Aid Roads Fund—S unds on Construction nberland Area— Expressways State Highways Ordinary Main Ro Secondary Roads Roads other than M Areas— Expressways State Highways Trunk and Ordinar	ads (ain Roa	Main R of E Reconstr ads	oads A xpendit ruction 	fr Work: 	De s	 epart- 	67 67 68 70 70 70
(A) (B)	Commonwealth ment's F County of Cur (i) (ii) (iii) (iv) (v) Country Urban (i) (ii) (iii) (iii)	gs under Section 42A Aid Roads Fund—S unds on Construction nberland Area— Expressways State Highways Ordinary Main Ro Secondary Roads Roads other than M Areas— Expressways State Highways Trunk and Ordinar Areas—	ads (ain Roa	Main R of E Reconstr ads	oads A xpendit ruction 	fr Work: 	De s	 epart- 	67 67 68 70 70 70 70 71
(A) (B)	Commonwealth ment's F County of Cur (i) (ii) (iii) (iv) (v) Country Urban (i) (ii) (iii) (iii) (iii)	gs under Section 42A Aid Roads Fund—S unds on Construction berland Area— Expressways State Highways Ordinary Main Ro Secondary Roads Roads other than M Areas— Expressways State Highways Trunk and Ordinar Areas— State Highways	ads ain Roa y Main	Main R of E Reconstr ads Roads 	oads A xpendit ruction 	fr Work: 	De s	 epart- 	67 67 68 70 70 70
(A) (B)	Commonwealth ment's F County of Cur (i) (ii) (iii) (iv) (v) Country Urban (i) (ii) (iii) (iii) (iii)	gs under Section 42A Aid Roads Fund—S unds on Construction nberland Area— Expressways State Highways Ordinary Main Ro Secondary Roads Roads other than M Areas— Expressways State Highways Trunk and Ordinar Areas—	ads ain Roa y Main	Main R of E Reconstr ads Roads 	oads A xpendit ruction 		De	 part- 	67 67 68 70 70 70 70 71
(A) (B)	Commonwealth ment's F O County of Cur (i) (ii) (iii) (iv) (v) O Country Urban (i) (iii) (iii) (iii) (iii) (iii) (iii) (iii)	gs under Section 42A Aid Roads Fund—S unds on Construction berland Area— Expressways State Highways Ordinary Main Ro Secondary Roads Roads other than M Areas— Expressways State Highways Trunk and Ordinar Areas— State Highways	of the ummary on and J ads fain Roa y Main y Main	Main R of E Reconstr ads Roads 	oads A xpendit ruction 		De	 part- 	67 67 68 70 70 70 70 71 71
(A) (B)	Commonwealth ment's F O County of Cur (i) (ii) (iii) (iv) (v) O Country Urban (i) (ii) (iii) (iii) (iii) (iii) Country Rural (i) (iii) (iii)	gs under Section 42A Aid Roads Fund—S unds on Construction nberland Area— Expressways State Highways Ordinary Main Ro Secondary Roads Roads other than M Areas— Expressways State Highways Trunk and Ordinar Areas— State Highways Trunk and Ordinary Developmental Roads ire from Departmen	of the ummary on and J ads fain Roa y Main ads Fund—	Main R of E Reconstr ads Roads Roads Roads 	oads A xpendit ruction 	fr Work: oses	De s Summa	 part- 	67 67 68 70 70 70 71 71 71 73
(A) (B) (C)	Commonwealth ment's F County of Cur (i) (ii) (iii) (iv) (v) Country Urban (i) (ii) (iii) (iii) (iii) (iii) Country Rural (i) (iii) (iii)	gs under Section 42A Aid Roads Fund—S unds on Construction nberland Area— Expressways State Highways Ordinary Main Ro Secondary Roads Roads other than M Areas— Expressways State Highways Trunk and Ordinar Areas— State Highways Trunk and Ordinar Developmental Roads in from Departmen Works—	of the ummary on and J ads fain Roa y Main ads Fund—	Main R of E Reconstr ads Roads Roads Roads 	oads A xpendit ruction 	fr Work: oses	De s Summa	 part- 	67 67 68 70 70 70 71 71 71 73 74
(A) (B) (C)	Commonwealth ment's F County of Cur (i) (ii) (ii) (ii) (v) Country Urban (i) (ii) (ii) (iii) Country Rural (i) (ii) (iii) (iii) (iii) (iii)	gs under Section 42A Aid Roads Fund—S unds on Construction nberland Area— Expressways State Highways Ordinary Main Ro Secondary Roads Roads other than M Areas— Expressways State Highways Trunk and Ordinary Developmental Roads in from Departmen Works— Expressways	of the ummary on and J ads fain Roa y Main ads Fund—	Main R of E Reconstr ads Roads Roads Roads 	oads A xpendit ruction 	fr Work: oses	De s Summa	 part- 	67 67 68 70 70 70 71 71 71 73 74 75
(A) (B) (C)	Commonwealth ment's F County of Cur (i) (ii) (iii) (iv) (v) Country Urban (i) (ii) (iii) Country Rural (i) (ii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii)	gs under Section 42A Aid Roads Fund—S unds on Construction berland Area— Expressways State Highways Ordinary Main Ro Secondary Roads Roads other than M Areas— Expressways State Highways Trunk and Ordinary Developmental Roads berland Main Roads the from Department Works— Expressways State Highways	of the ummary on and J ads (ain Roa y Main ads Fund— t's Fun 	Main R of E Reconstr ads Roads Roads Genera ds on	oads A xpendit ruction 	fr Work: oses	De s Summa	 epart- 	67 67 68 70 70 70 71 71 71 73 74 75 75
(A) (B) (C)	Commonwealth ment's F County of Cur (i) (ii) (iii) (iv) (v) Country Urban (i) (ii) (iii) Country Rural (i) (ii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii)	gs under Section 42A Aid Roads Fund—S unds on Construction nberland Area— Expressways State Highways Ordinary Main Ro Secondary Roads Roads other than M Areas— Expressways State Highways Trunk and Ordinary Developmental Roads in from Departmen Works— Expressways	of the ummary on and J ads (ain Roa y Main ads Fund— t's Fun 	Main R of E Reconstr ads Roads Roads -Genera ds on 	oads A xpendit ruction 		rom De s Summa and R 	 part- 	67 67 68 70 70 70 71 71 71 73 74 75
(A) (B) (C)	Commonwealth ment's F County of Cur (i) (ii) (iii) (iv) (v) Country Urban (i) (ii) (iii) Country Rural (i) (ii) (iii)	gs under Section 42A Aid Roads Fund—S unds on Construction berland Area— Expressways State Highways Ordinary Main Ro Secondary Roads Roads other than M Areas— Expressways State Highways Trunk and Ordinary Developmental Roads berland Main Roads the from Department Works— Expressways State Highways	of the ummary on and J ads (ain Roa y Main ads Fund— t's Fun 	Main R of E Reconstr ads Roads Roads Genera ds on 	oads A xpendit ruction 	 ure fr Work: oses action	rom De s Summa and R 	 epart- ry of econ- 	67 67 68 70 70 70 71 71 71 73 74 75 75

ppendix No.		Page
8A	County of Cumberland Main Roads Fund—Special Purposes—Summary of Expenditure from Department's Funds on Construction and Recon- struction Works—	
	(i) Expressways	80
	(ii) Ordinary Main Roads	80
	(iii) Roads other than Main Roads	80
9	Country Main Roads Fund—General Purposes—Summary of Expenditure from Department's Funds on Construction and Reconstruction Works—	
	(i) Expressways	81
	(ii) State Highways	81
	(iii) Trunk and Ordinary Main Roads	89
	(iv) Tourist Roads	99
	(v) Roads other than Main Roads	99
9A	Country Main Roads Fund—Special Purposes — Summary of Expenditure from Department's Funds on Construction and Reconstruction Works—	
	(i) Expressways	100
	(ii) State Highways	100
	(iii) Trunk and Ordinary Main Roads	103
10	Developmental Roads Fund—Summary of Expenditure from Department's Funds on Construction and Reconstruction Works	104
11	County of Cumberland Main Roads Fund—Payments for Maintenance and Minor Improvement of Main Roads, Bridges and Ferries—Work by Councils	107
11A	County of Cumberland Main Roads Fund — Maintenance and Minor Im- provement of Main Roads, Bridges and Ferries — Work by Depart- ment	107
12	Country Main Roads Fund—Payments for Maintenance and Minor improve- ment of Main Roads, Bridges and Ferries—Work by Councils	109
12A	Country Main Roads Fund—Maintenance and Minor Improvement of Main Roads, Bridges and Ferries — Work by Department	111
13	Proclamation of Main Roads	115
14	Declaration of Secondary Roads	115
15	Proclamation of Developmental Roads	115
15A	Deproclamation of Developmental Roads	116
16	Proclamation of Developmental Works	116
16A	Deproclamation of Developmental Works	116
17	Mileages of Expressways, State Highways, Trunk Roads, Ordinary Main Roads, Secondary Roads, Tourist Roads, and Developmental Roads in New South Wales—for the Five Years ended 30th June, 1970	116
18	Distribution between the Department and Councils of Responsibility for Care and Control of Roads at 30th June, 1970	117

5

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CLASSIFICATION OF ROADS

The mileage of proclaimed Main Roads (State Highways, Trunk Roads and Ordinary Main Roads) in the State at 30th June, 1970, totalled 22,356.

The total mileage of Expressways, Main Roads (State Highways, Trunk Roads and Ordinary Main Roads), Secondary Roads, Tourist Roads, Developmental Roads and unclassified roads for which the Department of Main Roads is responsible was 27,090.

Mileages of roads within the various classifications were:

5							
Expressways			••••	••••			 26 miles*
State Highways	••••			.		••••	 6,539 miles
Trunk Roads						••••	 4,245 miles
Ordinary Main Roads		••			·		 11,572 miles
Secondary Roads							 176 miles
Tourist Roads							 219 miles
Developmental Roads		••••					 2,741 miles
Unclassified Roads							 1,572 miles
*Evaluates form miles of E		hiah		1	(.:. n		

*Excludes four miles of Expressway which are proclaimed Main Roads.

During the year three additional Main Roads were proclaimed, one existing Main Road was extended and the proclamations of four Main Roads were altered.

In addition, one road was proclaimed as a Trunk Road, four Secondary Roads were proclaimed and two existing Secondary Roads were extended, one road was proclaimed as a Developmental Road and one Developmental Work was proclaimed.

During the year, nine Developmental Roads and four Developmental Works were deproclaimed.

Details of these proclamations, deproclamations, extensions and alterations are listed in Appendices Nos. 13, 14, 15, 15A, 16 and 16A.

The system of Main Roads at 30th June, 1970, and the boundaries of the Department's Divisions are shown on the map on the inside of the front cover of the Department's Annual Report.

COUNTY OF CUMBERLAND ROAD CONSTRUCTION

Details of road construction expenditure in the County of Cumberland in the past twelve months are listed in Appendix Nos. 7A, 8 and 8A.

The principal works undertaken in the County of Cumberland during the year were:---

State Highways

8 9

State Highway No. 1—Prince's Highway

Reconstruction was completed between Bay Street (Main Road No. 169) and Catherine Street, Rockdale, together with the intersection of Harrow Road and the intersection known as Seven Ways.

Reconstruction between Cardiff Street, Engadine and Whitton Street, Heathcote, was substantially completed. A major intersection is planned for the junction of Heathcote Road and Prince's Highway.

Construction of a climbing lane was completed at the top of Bulli Pass between the junctions with the Campbelltown-Bulli Road (Main Road No. 177) and Mt. Ousley Road (Main Road No. 513).

State Highway No. 2—Hume Highway

Construction of kerbside lanes and associated drainage was completed between Johnston Road and Woodville Road (State Highway No. 13), Lansdowne together with similar work between Cabramatta Creek and Warwick Farm Overbridge.

Construction of shoulders for southbound traffic was completed between Marsh Parade and Casula Road, Casula.

State Highway No. 5—Great Western Highway

Reconstruction of the concrete pavement and subsidiary work was completed between Railway Underpass and King Avenue, Flemington.

Construction of kerbside lanes and associated drainage was completed between Bridge Road and Station Street, Wentworthville.

Construction continued of the eastbound carriageway to provide dual carriageways between Prospect Deviation and St. Marys. A section of the eastbound carriageway was open to traffic between 21.9 and 24.6 miles west of Sydney.

Reconstruction was commenced to provide a six-lane divided carriageway between Chatsworth Road, Colyton and Bennett Road, St. Marys.

Construction of a four-lane carriageway was completed over Quarry Hill, near Kingswood, between 30.1 and 31.3 miles from Sydney. Work was commenced on the extension of the four lanes across Bound Creek between 29.9 and 30.1 miles from Sydney.

Work was commenced on the eastern intersection with Henry Street (Secondary Road No. 2082), Penrith, following the completion of the western channelised intersection with Henry Street. This work will complete the construction of a by-pass around Penrith shopping centre.

Widening of Victoria Pass was completed between 11.3 and 12.0 miles west of Katoomba. There are now lanes available for slow moving traffic both uphill and downhill between the bottom of Victoria Pass and the entrance to Mitchells Ridge Lookout, except for a short length at "Mitchells Bridge".

State Highway No. 10—Pacific Highway

Reconstruction and widening to a six-lane divided carriageway between Leonard Street and Edgeworth David Avenue (Secondary Road No. 2043) was completed at Hornsby.

Pavement reconstruction was completed within the shopping centre at Asquith.

State Highway No. 13-Woodville Road, Church Street and Pennant Hills Road

Construction of the divided six-lane carriageway was completed from Hume Highway (State Highway No. 2) to Chiltern Road including the railway overbridge at Villawood. Construction was nearing completion of the interchange at the overbridge to Christina Road and River Avenue.

Drainage works, together with associated pavement, kerb, gutter and footpath construction were completed between Macquarie Street and Lennox Bridge, Parramatta.

Construction of kerbside lanes on Pennant Hills Road (State Highway No. 13) was completed between Tintern Avenue and Evans Road, Carlingford.

Work was commenced on the construction of kerbside lanes between Carlingford Road (Main Road No. 373) and Murray Farm Road, Carlingford to provide a four-lane carriageway.

Ordinary Main Roads

Main Road No. 139-Blaxland Road, Devlin Street and Beecroft Road

Reconstruction of Devlin Street (Main Road No. 200) was completed at Top Ryde between Blaxland Road and Lane Cove Road (Main Road No. 162). This work included channelisation of the intersection with Blaxland Road North and Lane Cove Road (Main Road No. 162) and Blaxland Road South.

Ryde Municipal Council completed the channelisation of the intersection with Ryedale Road and Rowe Street, Eastwood.

Work was commenced on construction of the approaches to the railway overbridge at Epping. Included in this work are improvements to the intersections with Carlingford Road (Main Road No. 373) and Beecroft Road (Main Road No. 139) and reconstruction of the median strip in the shopping centre at Epping.

Main Road No. 154—From the Hume Highway (State Highway No. 2) at Narellan, via Bringelly, Luddenham, Kingswood, Londonderry and Macquarie Street, Windsor to Main Road No. 184 at Forbes Street, Windsor

Reconstruction of dual carriageways in Parker Street, Penrith, was completed between the Great Western Highway (State Highway No. 5) and Jamison Street.

Main Road No. 160-Old Northern Road

Baulkham Hills Shire Council commenced reconstruction and widening from Rogans Hill to Crego Road between 3.1 and 4.8 miles from Baulkham Hills.

Main Road No. 162—Lane Cove Road, Ryde Road and Mona Vale Road

Construction was commenced between Fontenoy Road and Waterloo Road, North Ryde, to provide a six-lane dual carriageway.

Reconstruction of Ryde Road to provide a six-lane divided carriageway was completed between Yanko Road and Shaddock Avenue, West Pymble. Work is at present proceeding to Minnamurra Avenue.

Main Road No. 164—Miller Street, Falcon Street, Military Road, Spit Road, Manly Road, Sydney Road, Condamine Street, Pittwater Road and Barrenjoey Road

The Department completed a six-lane section on Military Road at Cremorne Junction between Cabramatta Road and Spofforth Street (Secondary Road No. 2019).

Reconstruction of Spit Road was completed between Punch Street and Bickell Road, Mosman, and reconstruction was commenced between Bickell Road and Pearl Bay Avenue.

Reconstruction of Pittwater Road was completed between Jacksons Road and Turimetta Street, Warriewood. Construction was proceeding on Barrenjoey Road between Grandview Parade and Bardo Road, Newport.

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Main Road No. 166—Huntleys Point interchange via Tarban Creek and Fig Tree Bridges, Burns Bay Road, and Centennial Avenue to Epping Road (Main Road No. 373)

The reconstruction and widening of Centennial Avenue was commenced between Best Street and Epping Road (Main Road No. 373), Lane Cove.

Main Road No. 167—Enmore Road, Stanmore Road, New Canterbury Road, Canterbury Road, Milperra Road, Newbridge Road and Epsom Road

Marrickville Council commenced reconstruction of the concrete pavement prior to resurfacing with asphaltic concrete between Enmore Road, Enmore and Livingstone Road, Petersham.

Construction of an asphaltic concrete pavement was completed between The River Road (Secondary Road No. 2068) and Henry Lawson Drive (Main Road No. 508).

Main Road No. 168—Forest Road

Hurstville Municipal Council commenced kerb and gutter and drainage work between Belmore Road and Lime Kiln Road, Lugarno.

Main Road No. 170-Regent Street and Botany Road

Improvements were completed to the intersection of Chelmsford Avenue and Botany Road, Botany. Work was commenced on reconstruction of Botany Road between Beauchamp Road and Bunnerong Road (Main Road No. 171), Banksmeadow.

Main Road No. 173—William Street, Bayswater Road, New South Head Road, Hopetoun Avenue, Robertson Place and Military Road

Woollahra Municipal Council commenced reconstruction of the western road shoulder northerly from Sassafras Lane, Watson's Bay.

Main Road No. 183-Canal Street, Ricketty Street, Kent Road and Gardeners Road

Reconstruction and widening of the approaches to the new bridge over the Southern Cross Drive (Main Road No. 593) were completed between Racecourse Place and Tunstall Avenue, Rosebery.

Main Road No. 184—Church Street, Windsor Road, Bridge Street, Macquarie Street, Richmond Road, Windsor Road, Windsor Street, East Market Street, March Street and Bell's Line of Road

Reconstruction of Church Street, North Parramatta between By Street and North Rocks Road was commenced to provide a six-lane divided carriageway. This will form part of the scheme to relieve traffic congestion between Pennant Hills Road (State Highway No. 13) and Briens Road, North Parramatta.

Widening of Windsor Road to four lanes was completed from Coronation Street to Palace Road at Baulkham Hills and from President Road to Acres Road through Kellyville.

The intersection of Bridge Street (Main Road No. 182) and Macquarie Street, Windsor was widened and channelised.

Widening was commenced of a section on Mt. Tomah between 28.7 and 29.8 miles west of Windsor to provide an additional lane for slow moving vehicles.

Near Bell, strengthening and widening were commenced between 40.4 and 41.4 miles west of Windsor. The work provides for additional lanes for slow moving vehicles at several locations.

Main Road No. 277—Port Hacking Road, Kingsway, Cronulla Street, Waratah Street and Ewos Parade

Sutherland Shire Council completed reconstruction of the southern kerbside lane from Wandella Road to University Street, Miranda.

Main Road No. 327-Allison Road, Belmore Road and Coogee Bay Road

Randwick Municipal Council completed reconstruction of Coogee Bay Road from Judge Street to St. Luke Street, Randwick.

Main Road No. 328-Boundary Street, Babbage Street and Warringah Road

Reconstruction and widening of Warringah Road were commenced from the Wakehurst Parkway (Main Road No. 397) to Oxford Falls Road, Beacon Hill.

Main Road No. 344—Wentworth Avenue

Reconstruction was completed between Dransfield Avenue and Botany Road (Main Road No. 170), Mascot, as part of the new access road to Sydney (Kingsford Smith) Airport. Reconstruction was commenced between Bay Street and Corish Circle, Botany East. Main Road No. 373-Carlingford Road, Epping Road and Longueville Road

Hornsby Shire Council commenced reconstruction of Carlingford Road between Midson Road and Ray Road, Epping.

Construction of a six-lane divided carriageway was nearing completion between Shrimptons Creek and Vimiera Road, Marsfield.

Main Road No. 393—Farnell Avenue, Audley Road, Stevens Drive and Garie Road to the Upper Causeway, thence to Bald Hill via Otford

Reconstruction of Audley Road to lift it above flood level at the Upper Causeway over the Port Hacking River (Near Waterfall) was completed.

Main Road No. 530—Oliver Street, Bennett Street, Adams Street, Griffin Road, The Strand and Howard Avenue

Warringah Council commenced reconstruction of the unsealed shoulders to provide a four-lane sealed pavement between Lawrence Street and Brighton Street, Curl Curl.

Main Road No. 534—Cabramatta Road

The Department of Railways commenced construction of a new overbridge across the main southern railway line at Cabramatta. Fairfield Council will construct the approaches.

Main Road No. 537—Rooty Hill Road, Windsor Road, Richmond Road, Blacktown Road, Lennox Street and East Market Street

Blacktown Municipal Council almost completed construction of kerb and gutter and underground drainage together with pavement widening between Penfold Street and Barber Street, Rooty Hill.

Reconstruction was completed in Lennox Street, Richmond. Kerb and gutter and underground drainage were provided together with pavement widening.

Main Road No. 548-Mid Dural Road

Hornsby Shire Council continued reconstruction including a deviation leading to the planned new bridge over Colah Creek.

Main Road No. 587-George Street, Bridge Street and Jersey Street North

Reconstruction and widening to four lanes were completed between George Street and the Pacific Highway (State Highway No. 10) at Asquith.

Main Road No. 593—Neild Avenue, Boundary Street, Barcom Avenue, South Dowling Street and Southern Cross Drive

Reconstruction and widening of South Dowling Street, were completed between Flinders Street (Main Road No. 171) and Todman Avenue as well as construction of Southern Cross Drive from Todman Avenue to Wentworth Avenue (Main Road No. 344) as part of a new access road to Sydney (Kingsford Smith) Airport.

Main Road No. 599—Miller Street, Strathallen Avenue, Sailors Bay Road, Eastern Valley Way, Clive Street and Boundary Street

Reconstruction and amplification of the culvert at Scotts Creek and the four-lane widening from Boundary Street (Main Road No. 328) to Megalong Avenue, Willoughby, were completed. Work is proceeding on widening between Sailors Bay Road, Northbridge, and Megalong Avenue.

Secondary Roads

Secondary Road No. 2008—Bourke Street, O'Riordan Street, Robey Street and Joyce Drive

Reconstruction and widening of Robey Street and Amelia Street were completed between Botany Road (Main Road No. 170) and Qantas Drive as part of the access road to the Overseas Terminal at Sydney (Kingsford Smith) Airport.

Secondary Road No. 2019-High Street

North Sydney Municipal Council commenced reconstruction from Broughton Street to High Street Overbridge, North Sydney.

Secondary Road No. 2033-Monash Road and Ryde Road

Hunters Hill Municipal Council commenced reconstruction of the intersection of Pittwater Road (Secondary Road No. 2052) and Ryde Road, Boronia Park. Secondary Road No. 2043—Archbold Road, Arterial Road, Birdwood Avenue, Horace Street, Killeaton Street, Burns Road, Eastern Road, Junction Road and Edgeworth David Avenue.

Reconstruction between Bancroft Avenue and Tryon Road, East Lindfield was completed and widening to four lanes was commenced between Grosvenor Street and Coonanbarra Avenue, Wahroonga.

Secondary Road No. 2049-Junction Street, Parkes Street and Ethel Street

Reconstruction and bituminous surfacing were completed by Parramatta City Council between Church Street (State Highway No. 5) and Parkes Street, Parramatta.

Secondary Road No. 2056—Darling Street, Balmain Road, Perry Street, Mary Street, Lilyfield Road, Dobroyd Parade and Wattle Street

Reconstruction was completed of the intersection of Parramatta Road (State Highway No. 5), Wattle Street and Frederick Street (Secondary Road No. 2014).

Secondary Road No. 2059—Patterson Street, Gipps Street, Queens Road and Fairlight Street Drummoyne Municipal Council completed reconstruction of Queens Road, Fivedock between Great North Road (Main Road No. 395) and Harris Road.

Reconstruction of the westbound carriageway in Patterson Street between Concord Road (Main Road No. 200) and Bell Street, Concord was completed by Concord Municipal Council.

Secondary Road No. 2060-Punchbowl Road

Canterbury Municipal Council continued reconstruction and widening to four lanes of Punchbowl Road between King Georges Road (Main Road No. 315) and Punchbowl Railway Station.

Secondary Road No. 2068-The River Road

Bankstown Municipal Council commenced reconstruction and widening between the Railway overbridge and Tower Street, Revesby.

Secondary Road No. 2070—Shirley Road, River Road, Northwood Road, River Road West, Bridge Street and Penrose Street

Lane Cove Municipal Council completed reconstruction and widening to four lanes between Canberra Avenue and Greenwich Road, Northwood Road and Gore Creek, Longueville Road and William Edward Street, and Bridge Street and Burns Bay Road (Main Road No. 166). Similar work was commenced between Wangalla Road and Bridge Street, Lane Cove.

Secondary Road No. 2079-President Avenue

Rockdale Municipal Council completed reconstruction of the southern kerbside lane from Lachal Avenue to Prince's Highway (State Highway No. 1), Kogarah.

Secondary Road No. 2084—Blacktown Road, Wall Park Avenue and Seven Hills Road

Baulkham Hills Shire Council completed reconstruction of a section of Seven Hills Road (Secondary Road No. 2084) extending 0.6 miles west of Katherin Road, Baulkham Hills.

Tourist Roads

Tourist Road No. 4006-The River Road

Baulkham Hills Shire Council completed a total of 1.27 miles of reconstruction and bituminous surfacing on The River Road between 3.15 and 13.35 miles from Webbs Creek Ferry.

Tourist Road No. 4018-Sublime Point Road

Blue Mountains City Council completed reconstruction and bituminous surfacing of the full length between Willoughby Street, Leura, and the Lookout parking area.

Roads other than Main Roads

County Road No. 5016-Alfords Point Road

Construction was commenced of the northern and southern approaches to the bridge over Georges River at Alfords Point.

Construction was completed of Stacey Street Railway Overbridge and approaches at Bankstown.

County Road No. 5011 and County Road No. 5058

Construction on new roads was commenced between Prince's Highway (State Highway No. 1) at Wickham Street and between General Holmes Drive (Main Road No. 194) at Tancred Avenue to give access to the Overseas Terminal at Sydney (Kingsford Smith) Airport.

COUNTRY ROAD CONSTRUCTION

Details of road construction expenditure are listed in Appendix Nos. 7B, 7C, 9 and 9A. The principal construction works undertaken during the year were:

State Highways

State Highway No. 1—Prince's Highway

Greater Wollongong City Council commenced construction of retaining walls and associtated works at Black Cutting Hill, north of Rothery Street, Bellambi.

Reconstruction of the approaches to the railway overbridge at North Wollongong was completed to improve alignment and grading.

Greater Wollongong City Council completed construction of kerbside lanes to provide a carriageway 42 feet wide between McCabe Street and Avondale Road, Dapto.

Reconstruction was commenced of the southern approach to the bridge at Abernethys Creek between 97.0 and 97.5 miles south of Sydney to improve alignment and grading.

Construction of a climbing lane for northbound traffic on Mortons Hill was commenced to the north of the junction with Main Road No. 293 at Bomaderry.

The last section of pavement and shoulder widening through Narooma (between 1.7 miles north and 0.6 miles south) was completed, including improvement to alignment and grading between the Water Tower and Cemetery Road.

Bega Municipal Council completed replacement and construction of kerb and gutter, footpaths and drainage and relocation of utilities in Carp Street, Bega. The Department completed reconstruction of the pavement.

Work continued on the construction of the Kiah deviation, between 4.9 miles south of Eden at the Boydtown turn-off and the Towamba River Bridge at Kiah, 8.2 miles south of Eden. A short section of the new work is open to traffic.

Pavement widening was completed at the junction with Edrom Road. The work provides additional lanes to facilitate turning movements by heavy timber traffic.

State Highway No. 2—Hume Highway

Widening of the formation and pavement was continued on the southern side of Razorback Range to improve alignment and provide climbing lanes.

Construction was completed of the deviation of the southern approach to the Whitehorse railway overbridge between 14.0 and 14.8 miles south of Picton to improve alignment and grading.

Reconstruction was completed between 39.1 and 41.7 miles south of Mittagong, including provision of a climbing lane for northbound traffic.

A second carriageway for southbound traffic between 2.9 and 5.1 miles north of Goulburn was completed to a stage where it could be used by traffic.

Goulburn City Council commenced reconstruction and channelisation between 0.5 and 0.9 miles south of Goulburn.

Construction was commenced of a second carriageway between 2.3 and 7.25 miles south of Goulburn. This work requires the duplication of two bridges and provision of two structures over the Main Southern Railway Line.

Construction of a grade separated intersection between 7.25 and 9.0 miles south of Goulburn was commenced at the junction with the Federal Highway (State Highway No. 3). Work was commenced on all lanes and on the overpass bridge and one new lane was in operation.

The approaches to the new bridge over Meadow Creek between 0.1 and 1.2 miles east of Gunning and the climbing lane for northbound traffic were completed. In the town of Gunning the Shire Council carried out drainage works associated with these improvements.

Reconstruction and bituminous surfacing were completed between Conroys Gap and Bogolong Creek 12.7 and 20.0 miles west of Yass. The section includes three lengths of climbing lanes.

Improvements to the junction with Sturt Highway (State Highway No. 14), were completed including provision of median strips and traffic islands.

Reconstruction between 30.6 and 34.9 miles south of Tarcutta was completed including the provision of a dual carriageway between 30.6 and 33.8 miles.

Reconstruction was completed between 20.0 and 20.7 miles south of Holbrook.

Work was commenced on reconstruction between Table Top 30.6 miles south of Holbrook and Main Road No. 125, 38.7 miles south of Holbrook at North Albury.

State Highway No. 4—Snowy Mountains Highway

Reconstruction and realignment were commenced between 8.1 and 9.4 miles west of Tathra, in conjunction with construction of Parbery Creek Bridge, and the culvert over Warra-gaburra Creek. The new work will provide a flood-free section.

Reconstruction of the Brown Mountain deviation between Bega and Nimmitabel was completed except for two miles of final seal.

Completion of earthworks was extended to 8.4 miles west of Kiandra, and the pavement, including the approaches to Bullock Head Creek Bridge was completed to a stage where it was being used by traffic.

Reconstruction was in progress between 29.6 and 40.7 miles south east of Tumut. The whole length has now been provided with a gravel surface and opened to traffic.

Reconstruction was completed between 54.65 and 55.1 miles north west of Kiandra at Springfield.

Construction was completed of the deviation at Gilmore between 3.6 and 5.1 miles west of Tumut to provide approaches to the new Gilmore Creek Bridge.

Reconstruction and bituminous surfacing were completed between 26.2 and 27.8 miles west of Tumut.

State Highway No. 5—Great Western Highway

Reconstruction continued of the junction with Trunk Road No. 55 at 5.0 miles west of Lithgow to provide for grade separation.

Construction was continued of a deviation at Yetholme, between 24.4 and 27.7 miles west of Lithgow.

State Highway No. 6-Mid-Western Highway

Reconstruction west of Blayney was commenced and earthworks were completed on Red Hill between 0.9 and 3.9 miles west of Blayney.

State Highway No. 7-Mitchell Highway

Reconstruction was commenced between 23.1 and 26.7 miles west of Bathurst. Reconstruction and bituminous surfacing were completed between 26.7 and 30.7 miles west of Bathurst.

Reconstruction was commenced between 19.0 and 24.4 miles west of Wellington and was completed between 24.4 and 29.1 miles.

In the City of Dubbo, construction of approaches to the new bridge over the Macquarie River was completed and construction of approaches to Willandra Creek Bridge was commenced between 6.0 and 8.0 miles west of Dubbo.

The 22 feet wide bituminous surface was extended from 29.0 miles to 37.5 miles southeast of Nyngan and a 22 feet wide bituminous surface was provided north of Bourke between 22.0 and 36.0, 59.3 and 59.9, and between 82.2 and 82.6 miles.

Reconstruction preparatory to applying a bituminous surface was in progress between 36.0 and 47.0 miles north of Bourke.

State Highway No. 8—Barrier Highway

Bogan Shire Council completed bituminous surfacing between 38.9 and 41.2 miles west of Nyngan.

Bituminous surfacing was completed between 84.2 and 98.0 miles west of Cobar. Reconstruction, preparatory to applying a bituminous surface, was in progress between 98.0 and 111.4 miles west of Cobar.

Work was commenced on a deviation over McCullochs Range between 12.4 and 51.0 miles east of Wilcannia, to avoid low-lying areas traversed by the existing highway.

A final bituminous surface was applied between 8.2 and 11.6 miles east of Wilcannia.

Reconstruction prior to provision of a bituminous surface was being carried out between 0.0 and 8.2 miles east of Wilcannia, over the Darling River flood plain and the Talyawalka Creek flood plain.

A dust free surface was provided for the whole length between Wilcannia and Broken Hill with the completion of the "Grassmere" Deviation between 19.0 and 34.5 miles west of Wilcannia. This replaced low-lying sections subject to flooding from Grassmere Creek and Dolo Creek.

Final bituminous surface was carried out between 4.3 and 9.0 miles west of Wilcannia, between 17.7 and 33.5 miles west of Wilcannia, (excluding a detour approximately 0.4 miles long at the proposed bridge at Grassmere Creek) and between 55.8 and 73.0 miles east of Broken Hill.

State Highway No. 9—New England Highway

Construction continued of a deviation 3.29 miles long extending from Tarro overbridge, 1.5 miles west of Hexham Bridge to the Thornton-Minmi Road intersections, west of Beresfield. When the work is completed dual carriageways will extend from Maud Street (Main Road No. 605), Mayfield to the Thornton-Minmi Road intersections, a distance of 9.4 miles.

Reconstruction was commenced of a narrow section between 3.5 and 5.0 miles west of Maitland.

Reconstruction of a narrow winding section of bituminous pavement was commenced between 19.7 and 21.1 miles west of Maitland near Belford.

At Scone, reconstruction was completed between 15.4 and 15.6 miles north of Muswellbrook. The work included channelisation of two junctions with side streets and construction of a median strip. With the exception of the final seal, construction of the former "Devil's Elbow" section was completed between 24.1 and 25.8 miles north of Murrurundi. Improvements included an extra lane for slow moving vehicles.

Reconstruction was commenced between 29.0 and 30.3 miles north of Murrurundi.

Construction of approaches to Kentucky Creek Bridge was completed between 47.33 and 48.1 miles north of Tamworth and reconstruction and bituminous surfacing were nearing completion between 48.1 and 50.1 miles north of Tamworth.

Reconstruction and bituminous surfacing were continued between 50.1 and 53.2 miles north of Tamworth. Construction of a four cell, 8 feet by 8 feet, reinforced concrete box culvert was completed at 50.4 miles. Earthworks were in hand to 51.8 miles north of Tamworth.

Construction of the deviation between 1.0 and 2.5 miles south of Guyra was completed and work commenced between 1.0 miles south and 0.35 miles north of Guyra.

Construction of the deviation between 0.35 and 6.5 miles north of Guyra was nearing completion and will be opened to traffic when the railway overbridge is completed.

State Highway No. 10-Pacific Highway

Reconstruction to provide dual carriageways from Ida Street, Charlestown, to the Newcastle City Boundary, a distance of 1.1 miles, was nearing completion and has been opened to traffic. Dual carriageways have been provided between 5.0 miles and 7.2 miles south of Newcastle.

Reconstruction was completed for a distance of 2.3 miles from Grahamstown Lake Deviation to Balickera Channel.

Widening of the formation to 44 feet was continued between Main Road No. 506 and Bulahdelah to provide 10 feet shoulders for a distance of 18.2 miles. Approximately seven miles of this work has been completed.

Regrading of a crest and provision of a climbing lane were commenced one mile north of Bulahdelah.

Reconstruction and strengthening of the road to a 44 feet formation with 24 feet sealed pavement, was continued in the Coolongolook area between 15.5 and 19.0 miles north of Bulah-delah.

Kempsey Municipal Council completed traffic islands at the intersection with Belgrave Street, Kempsey.

Construction of a deviation was commenced between 1.5 and 3.3 miles south of Macksville to provide approaches to a new concrete bridge being constructed over Lower Warrell Creek. The work will form part of a future motorway.

Construction of a deviation was commenced north of Macksville from the bridge over the Nambucca River for approximately 2.0 miles. The work will involve a new crossing over Newee Creek and form part of a future motorway.

Construction was continued during the year of a deviation between 3.1 and 4.8 miles north of Coffs Harbour.

Reconstruction and bituminous surfacing were completed between 8.9 and 11.0 miles north of Coffs Harbour.

Construction was completed on a deviation between 45.7 and 47.1 miles north of Grafton including two new concrete bridges. Construction continued on the deviation northwards to 50.1 miles and a new bridge was completed at 49.2 miles. Completion of these works will eliminate two locations where frequent flood blockages occurred.

Construction of a climbing lane was recommenced between 0.2 and 0.9 miles north of Brunswick Heads.

Construction was continued of a climbing lane on the Burringbar Range. The climbing lane was completed between 6.2 and 7.0 miles south of Murwillumbah and work was continued between 7.0 and 8.5 miles and between 4.7 and 6.2 miles.

Reconstruction and bituminous surfacing were commenced from Alma Street to Condong Creek, 0.0 to 0.7 miles north of Murwillumbah.

Construction of a deviation was commenced at Condong between 2.6 and 4.1 miles north of Murwillumbah.

The Tweed Shire Council in conjunction with the Department continued reconstruction between Boyds Bay Bridge and the Queensland Border and work was completed between 18.0 and 18.2 miles north of Murwillumbah.

Construction of a channelised intersection was completed at the New South Wales/Queensland Border.

State Highway No. 11—Oxley Highway

Port Macquarie Municipal Council completed reconstruction and provision of a median strip in Gordon Street, providing two 33 feet carriageways separated by a median strip for a distance of 0.5 miles at the entrance to the town.

Hastings Shire Council completed reconstruction between 12.9 and 14.0 miles west of Port Macquarie, at Wauchope.

Bituminous surfacing was continued between Wauchope and Walcha. A dustless surface has now been provided between 0.0 and 38.9 miles and between 47.1 and 68.6 miles west of Port Macquarie. A dustless surface has also been provided between 12.0 miles east of Walcha and the New England Highway (State Highway No. 9) at Bendemeer.

Reconstruction was completed between 0.0 miles at Nevertire and 1.34 miles towards Warren. Reconstruction was continued between 1.34 and 4.0 miles from Nevertire towards Warren.

Reconstruction was completed between 2.4 and 3.45 miles south of Coonabarabran.

State Highway No. 12—Gwydir Highway

Inverell Municipal Council completed reconstruction and bituminous surfacing between 1.0 and 1.6 miles east of Inverell.

Yallaroi Shire Council completed reconstruction and widening between 4.6 and 6.0 miles east of Warialda to the prime seal stage.

Boolooroo Shire Council completed reconstruction and bituminous surfacing between 7.7 and 10.5 miles east of Moree.

Boomi Shire Council commenced construction of culverts and approaches over Cowbail Creek and Browns Creek between 28.0 and 33.4 miles west of Moree.

State Highway No. 14-Sturt Highway

Work continued on the Guys Hill Deviation between 13.8 and 17.4 miles from Hume Highway (State Highway No. 2).

The section between 17.4 and 18.5 miles (Coxs Folly) was reconstructed, including climbing lanes, and provided with a dust free surface.

Reconstruction, widening and bituminous surfacing of the pavement and formation were substantially completed between 19.5 and 22.0 miles west of Hay.

Widening of the formation was commenced between 12.0 and 19.5 miles and 22.0 and 27.0 miles west of Hay.

Reconstruction and widening of the pavement and formation were commenced between 12.6 and 13.9 miles east of Euston.

Reconstruction was completed between 0.0 and 5.5 miles west of Euston.

State Highway No. 15—Barton Highway

Reconstruction was commenced between 7.2 and 9.2 miles south of Yass.

State Highway No. 16—Bruxner Highway

Tintenbar Shire Council completed reconstruction between 12.6 and 12.9 miles west of Ballina. The work included the replacement of two narrow culverts with new pipe and box culverts.

Gundurimba Shire Council commenced reconstruction between 1.72 and 2.75 miles west of Lismore.

Gundurimba Shire Council completed reconstruction between 5.0 and 5.7 miles west of Lismore. This work raised the level of a section which was subject to flooding.

Tomki Shire Council completed reconstruction between 12.7 and 14.1 miles west of Lismore to provide approaches to the new bridge over Tomki Creek.

Construction continued between Tabulam and Drake to improve alignment and provide a bituminous surface over the full length. The section between 86.3 and 90.1 miles west of Ballina was completed and opened to traffic.

Tenterfield Shire Council completed to the prime seal stage the length between 31.6 and 32.6 miles east of Tenterfield at Drake.

Reconstruction and bituminous surfacing between 14.7 and 23.0 miles west of Tenterfield were completed by Tenterfield Shire Council and work was continued on the section between 23.0 and 29.0 miles.

Construction was completed to the primed stage between 8.0 and 14.0 miles east of Bonshaw and bridgeworks were in progress.

Construction continued of the deviation between 5.0 and 17.9 miles west of Bonshaw.

Ashford Shire Council continued reconstruction between 32.0 and 37.0 miles west of Bonshaw.

State Highway No. 17—Newell Highway

Forbes Municipal Council constructed approaches totalling 1.2 miles to the new bridge over Lake Forbes. Together with the new bridge the approaches form the first stage of a deviation through Forbes.

Jemalong Shire Council completed reconstruction between 1.4 and 3.4 miles north of Forbes.

Reconstruction of damaged pavement was completed between 1.0 and 9.0 miles south of Gilgandra.

Reconstruction was commenced between 6.6 and 7.2 miles north of Coonabarabran and reconstruction between 12.6 and 16.5 miles was well advanced.

Bituminous surfacing was extended for a further 2.1 miles between 16.5 and 18.6 miles north of Coonabarabran.

Reconstruction and bituminous surfacing between 38.1 and 43.0 miles north of Moree were completed and reconstruction was continued between 43.0 and 47.0 miles.

Reconstruction was commenced between 60.5 and 72.0 miles north of Moree.

State Highway No. 18—Castlereagh Highway

Bituminous surfacing between 8.3 and 10.0 miles and between 17.5 and 30.0 miles north of Walgett was completed and reconstruction preparatory to bituminous surfacing was in progress between 30.0 and 44.0 miles north of Walgett.

State Highway No. 19-Monaro Highway

Reconstruction was commenced between 30.2 and 31.2 miles south of Canberra,

Approaches to the bridge over Michelago Creek were completed to prime seal stage.

Reconstruction was completed between 57.5 and 58.0 miles south of Canberra, including provision of a climbing lane.

Cooma Municipal Council completed to prime stage construction of approaches to the railway overbridge at Cooma.

Reconstruction was commenced between 2.0 and 6.0 miles south of Cooma.

Construction was completed to prime stage from Tea Gardens Creek and 7.4 miles south of Nimmitabel to the Bibbenluke Shire Boundary at 10.0 miles.

Bibbenluke Shire Council completed reconstruction and bituminous surfacing between 10.0 and 14.5 miles south of Nimmitabel and between 7.0 and 8.0 miles south of Bombala.

Reconstruction was commenced between 8.0 and 10.0 miles south of Bombala.

State Highway No. 21-Cobb Highway

Reconstruction and bituminous surfacing were continued between 4.7 and 8.2 miles north of Moama.

Reconstruction and bituminous surfacing were completed between 16.7 and 24.0 miles north of Moama.

Deniliquin Municipal Council commenced reconstruction and channelisation of the intersection with the Riverina Highway (State Highway No. 20) and the Deniliquin-Jerilderie Road (Main Road No. 552).

Windouran Shire Council continued construction of a deviation to improve alignment between 5.7 and 6.2 miles north of Deniliquin.

Bituminous surfacing was completed between 29.0 and 48.0 miles north of Hay.

State Highway No. 22—Silver City Highway

Bitumen sand seals were applied to sections between 4.2 and 4.7, between 5.3 and 5.4, and between 7.1 and 7.2 miles east of Wentworth.

Approaches were completed to a new bridge at Two Mile Break between 1.3 and 1.9 miles north of Wentworth.

A final bituminous seal was applied to sections between 9.8 and 11.1 and between 31.9 and 39.3 miles north of Wentworth.

Pavement widening to 22 feet was carried out in conjunction with bituminous reseal work between 38.0 and 42.1 and 30.6 and 31.1 miles south of Broken Hill.

Realignment and construction of approaches to a new railway overpass were substantially completed over a length of 1 mile within the City of Broken Hill, in connection with the standardisation of rail gauge. Earthworks were constructed by the Department and pavement, bituminous surfacing and furnishings by Broken Hill City Council.

State Highway No. 24—Mt. Lindesay Highway

Kyogle Shire Council completed reconstruction and bituminous surfacing between 2.9 and 3.6 miles north of Woodenbong.

State Highway No. 25—Illawarra Highway

Reconstruction and pavement widening were continued between 5.0 and 7.0 miles east of Moss Vale (including improvement of the intersection with Main Road No. 265).

Work was continued on provision of a climbing lane for heavy vehicles on Macquarie Pass between 11.1 and 11.6 miles west of Prince's Highway (State Highway No. 1) at Albion Park.

State Highway No. 26

Construction of an additional southbound lane was completed at 2.5 miles north of Calga.

Trunk Roads

Trunk Road No. 51-Batemans Bay-Queanbeyan

Tallaganda Shire Council completed improvements to two crests between 2.6 and 3.06 miles west of Braidwood.

Trunk Road No. 54—Goulburn-Ilford

Goulburn City Council commenced reconstruction and sealing between 0.8 and 1.5 miles north of Goulburn. Crookwell Shire Council completed reconstruction and sealing between 34.3 and 36.7 miles north of Goulburn.

Abercrombie Shire Council commenced reconstruction and bituminous surfacing between 19.4 and 23.8 miles south of Bathurst.

Turon Shire Council commenced reconstruction and bituminous surfacing between 25.8 and 27.5 miles north of Bathurst.

Rylstone Shire Council completed reconstruction and bituminous surfacing between 3.2 and 4.5 miles south of Ilford and continued work on the section between 2.8 and 3.2 miles.

Trunk Road No. 55—Marrangaroo-Mullaley

Reconstruction and widening were commenced between 15.7 and 19.6 miles north of Lithgow.

Coolah Shire Council completed reconstruction and bituminous surfacing from 4.2 to 6.3 miles north of Coolah.

Coonabarabran Shire Council completed reconstruction between 31.1 and 32.7 miles south of Mullaley.

Liverpool Plains Shire Council commenced reconstruction between 11.4 and 13.9 miles south of Mullaley.

Trunk Road No. 56-Forbes-Hume Highway, near Yass

Boorowa Shire Council commenced reconstruction between 19.0 and 20.5 miles north of Boorowa and continued with the work between 18.3 and 19.0 miles.

Boorowa Shire Council completed reconstruction between 15.9 and 17.1 miles north of Boorowa.

Goodradigbee Shire Council commenced reconstruction between 15.2 and 17.2 miles north of Yass.

Trunk Road No. 57—Nyngan-Old Junee

Lachlan Shire Council completed reconstruction and bituminous surfacing between 13.3 and 16.9 miles south of Condobolin and commenced work between 16.9 and 20.0 miles.

Trunk Road No. 61—Orange-Cobar

Cobar Shire Council continued reconstruction preparatory to bituminous surfacing between 26.0 and 36.0 miles south of Cobar.

Trunk Road No. 62-Scone-Coolah

Scone Shire Council completed reconstruction between 16.0 and 20.0 miles west of Scone and commenced reconstruction between 21.7 and 23.1 miles.

Reconstruction was continued between 18.0 and 20.0 miles west of Merriwa and work was commenced between 20.0 and 21.1 miles.

Trunk Road No. 63—Tamworth-Yetman

Cockburn Shire Council commenced reconstruction between 14.0 and 15.25 miles north of Tamworth.

Manilla Shire Council carried out regrading of a sharp crest at its boundary with Cockburn Shire to improve riding qualities and increase sight distance.

Yallaroi Shire Council completed reconstruction and bituminous surfacing between 24.7 and 28.0 miles north of Warialda.

Ashford Shire Council commenced reconstruction and bituminous surfacing between 13.7 and 14.4 miles south of Yetman.

Trunk Road No. 65—Ewingsdale-Lismore

Terania Shire Council continued the construction of a deviation between 6.9 and 11.1 miles east of Lismore and bituminous surfacing was completed between 4.7 and 5.0 miles.

Trunk Road No. 67-Ivanhoe-Swan Hill

Balranald Shire Council completed reconstruction and bituminous surfacing between 60.0 and 62.3 miles north of Balranald and reconstruction was continued between 17.1 and 19.9 miles.

Trunk Road No. 68-Wentworth-Queensland Border near Mungindi

Reconstruction between 53.5 and 55.5 miles north of Trunk Road No. 66 was continued by Central Darling Shire Council to provide a gravel pavement.

Wentworth Shire Council commenced reconstruction and bituminous surfacing between 21.2 and 35.0 miles north of Wentworth.

Darling Shire Council continued reconstruction preparatory to applying a bituminous surface between 0.0 and 3.0 miles east of Bourke.

Trunk Road No. 70-Byrock-Queensland Border near Hebel

Brewarrina Shire Council continued reconstruction preparatory to bituminous surfacing between 5.3 and 12.0 miles north of Brewarrina.

Trunk Road No. 72-Willow Tree-Narrabri

Tamarang Shire Council continued widening of the pavement to 22 feet between 5.3 and 7.2 miles south of Quirindi.

Trunk Road No. 73-Inverell-Walcha

Macintyre Shire Council completed reconstruction and bituminous surfacing through Gilgai between 5.94 and 6.25 miles south of Inverell at the junction with Main Road No. 135. Uralla Shire Council commenced reconstruction between 31.4 and 34.2 miles north of Uralla and completed bituminous surfacing between 15.7 and 16.7 miles.

Trunk Road No. 74—Armidale-South Grafton

Dumaresq Shire Council completed bituminous surfacing between 41.2 and 43.1 miles east of Armidale and reconstruction was commenced between 43.1 and 45.7 miles. This work included construction of two reinforced concrete box culverts.

Nymboida Shire Council continued reconstruction prior to bituminous surfacing between 58.1 and 59.0 miles south of Grafton and reconstruction was continued between 30.4 and 31.6 miles.

Trunk Road No. 75—Wollombi-Kempsey

Macleay Shire Council completed reconstruction and bituminous surfacing between 24.2 and 26.5 miles west of Kempsey. Reconstruction and bituminous surfacing were commenced between 26.5 and 29.5 miles.

Trunk Road No. 76-Raleigh-Ebor

Bellingen Shire Council continued improvements to the alignment on Dorrigo Mountain between 17.7 and 18.0 miles west of Raleigh.

Trunk Road No. 78—Cowra-Hume Highway near Ettamogah

Illabo Shire Council commenced reconstruction and bituminous surfacing between 15.65 and 17.95 miles north of Wagga Wagga.

Mitchell Shire Council reconstructed and widened the pavement between 5.8 and 6.3 miles north of Wagga Wagga.

Trunk Road No. 80-Narrandera-Cobb Highway near Mossgiel

Wade Shire Council completed reconstruction between 1.6 and 2.3 miles and between 2.55 and 2.8 miles east of Griffith, raising the formation above the influence of irrigation canals.

Carrathool Shire Council commenced reconstruction between 25.4 and 37.7 miles south of Hillston and continued reconstruction and bituminous surfacing between 17.5 and 25.4 miles south of Hillston.

Trunk Road No. 81-Broken Hill-Silverton

In conjunction with the standardisation of rail gauge, Broken Hill City Council substantially completed earthworks, drainage, bituminous surfacing and furnishings on the approaches to a new railway overpass over a length of 0.3 miles in Gypsum Street, Broken Hill.

Trunk Road No. 82-Newcastle-Jesmond

Newcastle City Council commenced construction of dual carriageways between Turton and Broadmeadow Roads (Main Road No. 326), Newcastle.

Trunk Road No. 83—South Grafton-Mt. Lindesay Highway near Woodenbong

Kyogle Shire Council completed reconstruction and bituminous surfacing between 13.0 and 13.7 miles north of Casino.

Kyogle Shire Council commenced reconstruction prior to applying a bituminous surface between 6.2 and 7.3 miles north of Kyogle.

Kyogle Shire Council completed reconstruction of the junction with Mt. Lindesay Highway (State Highway No. 24).

Trunk Road No. 84—Bowning-Temora

Murrumburrah Municipal Council completed reconstruction and bituminous surfacing between 0.1 and 1.2 miles west of Murrumburrah.

Demondrille Shire Council and Murrumburrah Municipal Council commenced construction between 1.2 and 2.0 miles west of Murrumburrah. The work includes provision of a climbing lane.

Jindalee Shire Council completed reconstruction and bituminous surfacing between 19.3 and 22.1 miles west of Murrumburrah.

Trunk Road No. 85—Gilmore-Jingellic

Tumut Shire Council completed reconstruction between 2.7 and 3.2 miles south of Batlow.

Trunk Road No. 89-Tomingley-Narromine

Timbrebongie Shire Council commenced reconstruction between 14.1 and 18.7 miles south of Narromine.

Trunk Road No. 90—Pacific Highway-Gloucester-Purfleet

Gloucester Shire Council completed reconstruction and bituminous surfacing between 10.5 and 12.0 miles south of Gloucester, raising a section of failed pavement on low-lying formation.

Manning Shire Council completed reconstruction and bituminous surfacing between 2.6 and 5.7 miles west of Krambach.

Trunk Road No. 91—Prince's Highway near Pambula-Bombala

Imlay Shire Council commenced reconstruction between 13.0 and 15.0 miles west of Prince's Highway (State Highway No. 1) near Pambula. Earthworks were completed and opened to traffic on a running course of gravel.

Bibbenluke Shire Council completed reconstruction and bituminous surfacing between 4.5 and 6.5 miles east of Bombala and commenced reconstruction between 6.5 and 8.2 miles.

Ordinary Main Roads

Main Road No. 104-East Maitland-Raymond Terrace

Maitland City Council and Port Stephens Shire Council completed construction of a deviation totalling 1.9 miles which included Irrawang Bridge over the Hunter River and eliminated the ferry crossing between Raymond Terrace and Millers Forest.

Main Road No. 105-Scone-Nemingha

Scone Shire Council completed gravelling and priming of the pavement between 22.1 and 22.6 miles east of Scone.

Nundle Shire Council completed construction of a deviation between Bowling Alley Point, 28.5 miles south east of Tamworth and Nundle, 35.9 miles south east of Tamworth. A sealed road has now been provided between Tamworth and Nundle.

Main Road No. 111-Pacific Highway-Forster-Bulahdelah

Manning Shire Council completed construction of a deviation approximately 0.9 miles long at McCanns Corner.

Stroud Shire Council completed reconstruction and bituminous surfacing between Smiths Lake and Pacific Palms, between 21.4 and 24.8 miles from the Pacific Highway near Bulahdelah.

Main Road No. 124—Yarrowyck-Armidale

Uralla Shire Council completed bituminous sealing of the approaches to the Saumarez Creek Bridge between 5.0 and 5.4 miles west of Armidale.

Main Road No. 127-Narrabri-Trunk Road No. 68 near Walgett

Namoi Shire Council commenced reconstruction between 43.0 and 49.0 miles west of Narrabri to provide a road less susceptible to flooding.

Main Road No. 128—Singleton-Gostwyck

Dungog Shire Council completed bituminous surfacing of a length 0.76 miles long and is proceeding with reconstruction of a length 2.0 miles long to the south west of Gresford towards Patrick Plains Shire Boundary.

Main Road No. 129—Quirindi-Quambone

Tamarang Shire Council completed bituminous surfacing between 16.4 and 19.1 miles west of Quirindi, across the Mooki River flood plain.

Coonabarabran Shire Council commenced construction of approaches to the new railway overbridge between 4.5 and 5.0 miles north of Coonabarabran.

Main Road No. 132—Barraba-Bundarra

Barraba Shire Council commenced construction of a large box culvert at Ironbark Creek, 34.3 miles north east of Barraba.

Main Road No. 133-Narrabri-Bingara

Bingara Shire Council commenced realignment and reconstruction between 19.8 and 21.0 miles west of Bingara.

Main Road No. 134-Bingara-Ashford

Macintyre Shire Council constructed to basecourse level between 9.8 and 11.5 miles south of Delungra and completed strengthening and bituminous surfacing of isolated sections between 0.7 and 6.1 miles.

Main Road No. 135-Gilgai-Ebor

Guyra Shire Council continued reconstruction between 7.5 and 11.0 miles west of Guyra, preparatory to bituminous surfacing.

Main Road No. 137-Inverell-Bonshaw

Inverell Municipal Council completed widening, strengthening and bituminous surfacing between 1.0 and 2.6 miles north of Inverell.

Macintyre Shire Council commenced widening and strengthening preparatory to bituminous surfacing between 2.6 and 3.6 miles north of Inverell.

Ashford Shire Council completed reconstruction and bituminous surfacing between 2.7 and 5.3 miles north of Ashford.

Main Road No. 138-Texas

An extension of 1.9 miles was completed to the south to provide a link with the deviation of the Bruxner Highway (State Highway No. 16).

Main Road No. 181-McGraths Hill-Main Road No. 503 near Singleton

Greater Cessnock City Council completed reconstruction between 2.0 and 3.0 miles south of Wollombi.

Main Road No. 206-Dubbo-Dunedoo

Coolah Shire Council completed reconstruction and bituminous surfacing between 4.6 and 7.4 miles west of Dunedoo and commenced similar work between 7.4 and 13.5 miles.

Main Road No. 208-Muswellbrook-Mudgee

Cudgegong Shire Council commenced reconstruction and bituminous surfacing between 11.4 and 12.4 miles north-east of Mudgee.

Main Road No. 211-Wagga Wagga-Holbrook

Kyeamba Shire Council completed reconstruction and bituminous surfacing between 15.0 and 15.9 miles south of Wagga Wagga.

Main Road No. 213-Mount Thorley-Main Road No. 209 near Denman

Patrick Plains Shire Council completed reconstruction and bituminous surfacing between 2.4 and 4.1 miles from Main Road No. 503 towards Jerrys Plains, and Denman Shire Council did similar work between 11.6 and 14.1 miles from Jerrys Plains.

Main Road No. 214—Cassilis—Main Road No. 208 near Mudgee

Merriwa Shire Council completed priming between 0.3 and 2.5 miles south of Trunk Road No. 62 including approaches to the new bridge over Four Mile Creek at 2.2 miles south of Cassilis.

Merriwa Shire Council completed bituminous surfacing between 1.3 and 3.0 miles north of Ulan.

Cudgegong Shire Council completed reconstruction and bituminous surfacing between 15.5 and 16.5 miles from Mudgee.

Main Road No. 223-Broadmeadow Junction-Kurri Kurri

Lake Macquarie Shire Council commenced reconstruction from Neilson Street to Park Street, Edgeworth to provide a 33 feet carriageway. At the junction with Main Road No. 527 at Cardiff, two 33 feet carriageways were provided.

This work included construction of a full width bridge over Winding Creek on Main Road No. 527.

Main Road No. 231—Lake Cargelligo-Girral

Bland Shire Council continued reconstruction and bituminous surfacing from Ungarie towards Weja extending the bituminous surface to 11.1 miles from Ungarie.

Main Road No. 232-Moree-Boonangar

Boomi Shire Council completed reconstruction, strengthening and bituminous surfacing through Garah between 30.8 and 31.6 miles north of Moree.

Main Road No. 233—Gulgong-Parkes

Cudgegong Shire Council completed reconstruction and bituminous surfacing between 18.2 and 20.2 miles and commenced work between 20.2 and 22.0 miles west of Gulgong.

Main Road No. 241-Temora-Gunning

Burrangong Shire Council completed reconstruction and priming between 15.2 and 21.0 miles west of Young.

Boorowa Shire Council completed bituminous surfacing between 2.8 and 4.9 miles west of Boorowa.

Main Road No. 243—Grong Grong-Gundagai

Coolamon Shire Council commenced reconstruction and bituminous surfacing between 9.0 and 9.5 miles east of Coolamon at Marrar.

Main Road No. 249—Federal Highway near Sutton-Laggan

Gunning Shire Council completed reconstruction and bituminous surfacing between 3.0 and 6.0 miles south of Gunning.

Main Road No. 256—Goulburn-Oberon

Oberon Shire Council completed reconstruction between 17.6 and 21.2 miles south of Oberon and completed reconstruction and bituminous surfacing between 14.6 and 17.6 miles south.

Main Road No. 258—Mittagong-Richlands

Mittagong Shire Council completed reconstruction on improved alignment between 6.0 and 7.8 miles from the Hume Highway (State Highway No. 2).

Main Road No. 263-Bowral-Fitzroy Falls

Mittagong Shire Council completed widening of the pavement from 16 feet to 20 feet between 2.0 and 3.5 miles from Main Road No. 260.

Main Road No. 264—Robertson-Kiama

Kiama Municipal Council completed reconstruction to gravel pavement standard between 8.8 and 9.2 miles from the Prince's Highway (State Highway No. 1) at Kings Creek. The work included construction of a new structure at Kings Creek.

Main Road No. 271—Braidwood-Moruya

Eurobodalla Shire Council completed construction of a pipe culvert at 23.7 miles west of Moruya and commenced construction of a deviation at Simpsons Farm, 7 miles west of Moruya.

Main Road No. 272-Tilba-Bega

Mumbulla Shire Council completed, to prime stage, reconstruction between 4.7 and 5.7 miles south of Bermagui towards Bega.

Main Road No. 279—Tumut-Gundagai

Tumut Shire Council continued reconstruction and bituminous surfacing between 6.5 and 9.1 miles north of Tumut.

Main Road No. 280—Wondalga-Tumblong

Tumut Shire Council continued reconstruction and bituminous surfacing between 6.2 and 8.5 miles south of Adelong.

Main Road No. 282-Tumbarumba-Mullengandra

Tumbarumba Shire Council continued reconstruction and bituminous surfacing between 11.0 and 19.2 miles south east of Tumbarumba and provided a dust free primed surface between 11.0 and 14.0 miles.

Main Road No. 286-Mount Kosciusko Road

Strengthening of pavement and provision of subsoil drains were completed between 8.0 and 20.0 miles west of Jindabyne.

Construction of a turning circle at Spoonars Inn and reconstruction and widening between Perisher Valley and Betts Creek were completed. A short length of pavement widening was carried out near Charlotte Pass.

Main Road No. 291—Winduella-Crookwell

Crookwell Shire Council commenced reconstruction and bituminous surfacing between 6.6 and 9.5 miles from Crookwell.

Main Road No. 296-Pretty Pine-Yanga Tank

Windouran Shire Council continued reconstruction and bituminous surfacing between 45.8 and 56.5 miles west of Deniliquin.

Main Road No. 301—Main Road No. 101 near Maitland-Wiragulla

Dungog Shire Council completed construction of a short deviation south of Wiragulla.

Main Road No. 316—State Highway No. 10 at the intersection of Stewart Avenue and Parry Street, Newcastle, to Mayfield

Newcastle City Council continued construction of dual carriageways and channelisation of intersections along the Industrial Route from George Street to Bull Street, Mayfield.

Main Road No. 319-Main Road No. 514 near Maude-Barham

Hay Shire Council completed reconstruction and bituminous surfacing between 22.5 and 26.0 miles north of Windouran Shire Boundary.

Wakool Shire Council completed reconstruction and bituminous surfacing between 20.5 and 24.5 miles north of Barham and commenced reconstruction between 15.7 and 20.5 miles.

Main Road No. 323—Jerilderie-Daysdale

Jerilderie Shire Council completed reconstruction and bituminous surfacing between 5.6 and 12.1 miles east of the Newell Highway (State Highway No. 17).

Main Road No. 326—Adamstown Heights-Mayfield North

Construction by Newcastle City Council in Hanbury and Vine Streets, Mayfield, between Highfield and Bull Streets was nearing completion and will provide 42 feet between kerbs.

Main Road No. 329—Baradine-Gwydir Highway near Grawan Bridge

Coonabarabran Shire Council commenced reconstruction between 6.9 and 11.4 miles north of Baradine including relocation of a level crossing on improved alignment south of Kenebri.

Main Road No. 331-Berrigan-Trunk Road No. 85 near Jingellic

Corowa Shire Council completed reconstruction and bituminous surfacing between 0.0 and 3.0 miles west of Daysdale and commenced reconstruction between 0.0 and 6.0 miles east of Daysdale.

Culcairn Shire Council completed reconstruction and bituminous surfacing between Culcairn and the intersection with Main Road No. 547 near Walla Walla.

Holbrook Shire Council completed reconstruction and bituminous surfacing between 0.0 and 2.5 miles west of Trunk Road No. 85 near Jingellic.

Main Road No. 334-Mendooran-Belar Creek

Coolah Shire Council commenced reconstruction and bituminous surfacing between 5.8 and 10.3 miles north of Mendooran. The completion of this section will provide a dustless surface between Mendooran and Coonabarabran.

Main Road No. 336—Gosford-The Entrance

Gosford Shire Council completed reconstruction and bituminous surfacing of sections totalling 1.1 miles between 4.8 and 6.2 miles east of Erina Creek.

Main Road No. 341-Moama-Main Road No. 319 near Barham

Murray Shire Council commenced reconstruction and bituminous surfacing of the existing gravel section between 46.0 and 50.1 miles from the Cobb Highway (State Highway No. 21) at Moama.

Main Road No. 343-Wee Waa-Burren Junction

Namoi Shire Council completed bituminous surfacing between 0.8 and 6.3 miles west of Wee Waa excluding the Tulladunna Bridge approaches and has commenced reconstruction between 6.3 and 10.5 miles west of Wee Waa.

Main Road No. 349-West Gosford-Patonga

Gosford Shire Council completed reconstruction and bituminous surfacing between 1.1 and 1.5 miles south from the Pacific Highway.

Main Road No. 357—Boggabri-Manilla

Manilla Shire Council continued with gravel pavement construction between 5.6 and 8.1 miles west of Manilla.

Main Road No. 358—Merriwa-Willow Tree

Murrurundi Shire Council completed to base course stage, the approaches, 0.7 miles long, to the new bridge over Millers Creek, 17.0 miles south west of Willow Tree.

Main Road No. 367—Garah-Mungindi

Boomi Shire Council completed construction of the approaches to Miltonville Creek culvert, 50 miles north west of Moree.

Main Road No. 380-Trunk Road No. 56 near Boorowa-Cunningar

Demondrille Shire Council completed reconstruction and bituminous surfacing between 9.6 and 10.3 miles east of Trunk Road No. 84 and Cunningar. A further section between 10.3 and 13.2 miles was commenced and completed to basecourse stage.

Main Road No. 382-Bonshaw-Glen Innes

Severn Shire Council continued reconstruction between 11.3 and 15.5 miles north west of Glen Innes preparatory to bituminous surfacing.

Main Road No. 383—Coonamble-Pilliga

Namoi Shire Council completed reconstruction and bituminous surfacing between 0.0 and 0.4 miles from Pilliga.

Main Road No. 384—Alfred Town—Main Road No. 284

Kyeamba Shire Council completed reconstruction and bituminous surfacing between Alfred Town and Ladysmith and commenced reconstruction between 22.0 and 25.4 miles south of Wagga Wagga.

Main Road No. 385-Morundah-Urana

Urana Shire Council completed reconstruction and bituminous surfacing between 1.5 and 6.5 miles from Urana.

Main Road No. 388-Beremegad Tank-Deniliquin

Wakool Shire Council completed reconstruction and bituminous surfacing between 42.0 and 44.0 miles west of Deniliquin.

Main Road No. 394-Berridale-Monaro Highway near Bibbenluke

Monaro Shire Council completed bituminous surfacing between 25.4 and 26.5 miles from Berridale.

Main Road No. 398—Grenfell-Dullah

Narraburra Shire Council continued reconstruction and bituminous surfacing between 2.5 and 4.5 miles south of Ariah Park.

Main Road No. 433—Menindee-Ivanhoe

Central Darling Shire Council completed reconstruction of an earth-type formation between 19.6 and 30.0 miles west of Darnick.

Main Road No. 502-Top of Bulli Pass-Main Road No. 179 near Wilton

The Department completed widening of the formation between 2.3 and 4.3 miles west of Mount Ousley Road (Main Road No. 513).

Main Road No. 503-Wilberforce-Singleton

Reconstruction was commenced between 9.0 and 9.6 miles north of Windsor.

Main Road No. 505—Erina-Terrigal

Gosford Shire Council completed reconstruction and bituminous surfacing between 2.4 and 3.1 miles east of Erina.

Main Road No. 513-Mount Ousley Road

Improvements were completed to the junction with Main Road No. 503 including provision of climbing lanes.

Main Road No. 514-Hay-Oxley-Penari

Hay Shire Council continued reconstruction and bituminous surfacing between 28.3 and 29.8 miles west of Hay.

Main Road No. 517-Raymond Terrace-Salt Ash

Port Stephens: Shire Council completed construction and bituminous surfacing of 1.5 miles of gravel road at Salt Ash.

Main Road No. 519-Bell's Line of Road-Wilberforce to Singleton Road

Colo Shire Council completed reconstruction and prime sealing between 9.1 and 10.5 miles from Bell's Line of Road (Main Road No. 184).

Main Road No. 522-Port Kembla-Shellharbour

Shellharbour Municipal Council completed reconstruction of dual carriageways between Woodford Avenue and Lake Entrance Road, Warilla. This work included enlargement and lengthening of the reinforced concrete box culvert at Bensons Creek.

Main Road No. 539-Trunk Road No. 80-Main Road No. 321 near Darlington Point

Lecton Shire Council completed bituminous surfacing between 1.2 and 4.9 miles south of Trunk Road No. 80.

Main Road No. 543-The Rock-Coolamon

Mitchell Shire Council commenced reconstruction and bituminous surfacing between 25.6 and 27.3 miles north of The Rock.

Coolamon Shire Council commenced reconstruction and bituminous surfacing between 0.0 and 5.1 miles south of Coolamon.

Main Road No. 547—Jindera-Walla Park

Hume Shire Council completed reconstruction and bituminous surfacing between 0.0 and 3.5 miles north of Jindera. The work included reconstruction of the intersection with Main Road No. 125 at Jindera.

Main Road No. 550-Corowa-Tocumwal

Berrigan Shire Council commenced reconstruction between 4.9 and 9.9 miles east of Tocumwal and completed reconstruction and bituminous surfacing between 3.4 and 4.9 miles.

Main Road No. 552—Deniliquin-Jerilderie

Conargo Shire Council continued reconstruction and bituminous surfacing between 27.0 and 42.1 miles east of Deniliquin, including completion between 32.0 and 35.0 miles.

Jerilderie Shire Council completed reconstruction and bituminous surfacing between 5.5 and 12.3 miles west of Jerilderie and continued reconstruction between 1.9 and 5.5 miles.

Main Road No. 560-Batemans Bay-Batehaven

Eurobodalla Shire Council completed construction and bituminous surfacing of approaches to Joes Creek Bridge near Batemans Bay.

Main Road No. 579-Werris Creek-Trunk Road No. 72

Peel Shire Council completed reconstruction and bituminous surfacing between 2.1 and 2.7 miles from Main Road No. 130.

Main Road No. 596-Newell Highway near Morundah-Main Road No. 321 near Coleambally

Murrumbidgee Shire Council continued reconstruction and bituminous surfacing between 8.2 and 11.2 miles east of Main Road No. 321.

Main Road No. 603 (County Route No. 12)

Newcastle City Council completed construction of a 33 feet carriageway from Carnley Avenue to State Highway No. 23 at New Lambton.

Developmental Roads and Developmental Works

Details of expenditure on Developmental Roads and Works are listed in Appendix No. 10. Some of the more substantial works carried out during the year were:

Developmental Road No. 1170-Binnaway-Mollyann

Coonabarabran Shire Council completed construction of a high-level bridge 360 feet long and approaches over the Castlereagh River at Binnaway.

Developmental Road No. 1304-Uarbry Road

Merriwa Shire Council completed gravelling over most of the section from Curryall to the Coolah Shire Boundary, 2.9 to 6.7 miles west of Main Road No. 214, and completed priming on three sections totalling 1.9 miles in length.

Coolah Shire Council continued reconstruction and bituminous surfacing from Trunk Road No. 55 towards Cassilis, completing the section between 10.0 and 15.3 miles east of Trunk Road No. 55.

Tourist Roads

Details of expenditure on Tourist Roads are given in Appendix No. 9. One substantial work completed during the year was:

Tourist Road No. 4035-Bungwahl-Seal Rocks

Stroud Shire Council completed reconstruction and bituminous surfacing of a section 1.5 miles long from Main Road No. 111 near Bungwahl towards Seal Rocks.

General

BRIDGE CONSTRUCTION

During the year fifty-nine bridges and seventy-seven bridge-size box culverts, i.e. with a waterway width of twenty feet or more, were made available for traffic. In addition, widening works or construction of footways were completed on five bridges.

The 136 structures are situated generally on Main and Developmental Roads, but a few are on unclassified roads at locations where the Department is responsible for bridging.

At the end of the year, eighty-one bridges and sixty-three bridge-size culverts were under construction on classified roads.

A table showing the number of structures completed on each road classification is set out below:

	Express- ways	State High- ways	Trunk Roads	Ordinary Main Roads	Develop- mental & Unclassi- fied Roads	County Roads (Future Main Roads)	Total
Bridges Bridge-size	8	21	6	15	8	1	59
Culverts		28	17	22	10	—	77
Total	8	49	23	37	18	1	136

Of the completed bridges, thirty-four were built by the Department (twenty-five by contract) and twenty-three by Councils (fourteen by contract). The two remaining bridges were built by the New South Wales Department of Railways (1) and the Sydney City Council (1).

Thirty of the culverts were built by the Department (five by contract), and forty-seven by Councils (thirteen by contract).

Principal Bridgeworks Completed During the Year

Pedestrian Bridge over the Southern Expressway at Byarong Avenue, Wollongong

The Department completed construction by contract of a six-span prestressed concrete footbridge 315 feet long, over the Southern Expressway at Wollongong.

Railway Overbridge at Ultimo

The New South Wales Department of Railways and Sydney City Council completed construction of a seven-span prestressed and reinforced concrete bridge over the railway at William Henry Street, Ultimo. The new structure is 650 feet long and provides four traffic lanes. It replaced a narrow steel bridge in poor condition.

Railway Overbridge at Stacey Street, Bankstown

The Department completed construction by contract of a three-span prestressed concrete bridge to connect the northern and southern sections of Stacey Street, Bankstown and thereby provide a new route to bypass the business centre. The bridge is 295 feet long and provides a six-lane divided carriageway with two footways. The bridge affords a new crossing over the railway line, grade separations over an extension of North Terrace and over South Terrace, and interchange facilities for local traffic.

Billabong Creek—State Highway No. 2—Hume Highway

The Department completed construction by contract of a two-lane prestressed concrete bridge 30.5 miles south of Tarcutta. The new bridge is 385 feet long and will eliminate a section of the Highway subject to flooding.

Macquarie River at Dubbo-State Highway No. 7-Mitchell Highway

The Department completed construction by contract of a 28-span prestressed concrete bridge 2,013 feet long and providing two traffic lanes. It replaced a timber beam bridge 502 feet long, the approaches of which were subject to flooding.

Myall River at Bulahdelah—State Highway No. 10—Pacific Highway

The Department completed construction by contract of a four-span prestressed and reinforced concrete bridge 395 feet long and providing two traffic lanes. It replaced a steel truss and timber beam bridge 248 feet long.

King Creek—State Highway No. 11—Oxley Highway

The Department completed construction of a seven-span reinforced and prestressed concrete bridge 11 miles west of Port Macquarie. The new bridge is 237 feet long, provides two traffic lanes and replaced an old narrow concrete bridge, 166 feet long, on poor alignment and subject to flooding.

Railway Overbridge at Villawood—State Highway No. 13—Woodville Road

The Department completed construction by contract of a five-span prestressed concrete bridge to eliminate the railway level crossing at Villawood. The new bridge is 200 feet long and provides a six-lane divided carriageway with two footways.

Tomki Creek—State Highway No. 16—Bruxner Highway

Tomki Shire Council completed construction by contract of a four-span prestressed and reinforced concrete bridge approximately 6.7 miles east of Casino. The bridge, 280 feet long, provides two traffic lanes, and replaced a timber beam bridge 123 feet long.

Myall Creek—State Highway No. 16—Bruxner Highway

The Department completed construction by contract of a prestressed and reinforced concrete bridge 1.75 miles west of Bonshaw. The new bridge is 210 feet long and provides two traffic lanes.

Lake Forbes at Forbes-State Highway No. 17-Newell Highway

The Department completed construction by contract of a nine-span prestressed concrete bridge, 470 feet long and providing two traffic lanes and two footways. The existing narrow timber bridge which is subject to flooding will be retained for local traffic.

Michelago Creek—State Highway No. 19—Monaro Highway

The Department completed construction by contract of a two-lane continuous prestressed concrete bridge 32 miles south of Canberra. The new bridge is 301 feet long and replaced a narrow timber structure, 113 feet long.

Two Mile Break—State Highway No. 22—Silver City Highway

The Department completed construction by contract of a reinforced and prestressed concrete bridge, two miles from Wentworth. The new bridge is 400 feet long, and provides two traffic lanes. It is on a flood free deviation of the highway across the Darling River flood plain and spans a flood channel which carries water from the Darling River to the Murray River downstream from Wentworth.

Warialda Creek at Warialda—Trunk Road No. 63

The Department completed construction by contract of a five-span steel and concrete bridge 295 feet long and provides two traffic lanes. It replaced an old timber structure, 270 feet long.

Batterns Bight Bridge over Six Mile Creek—Trunk Road No. 83

The Department completed construction by contract of a nineteen-span prestressed and reinforced concrete bridge approximately 39 miles north of Grafton. The bridge is 665 feet long, provides, two traffic lanes, and replaced a timber beam bridge 53 feet long, which was subject to flooding.

Hunter River at Raymond Terrace-Main Road No. 104

The Department completed construction by contract of a five-span reinforced and prestressed concrete bridge. The new bridge is 678 feet long, provides two traffic lanes and eliminated a vehicular ferry service.

Sydney (Kingsford Smith) Airport Access Road—Main Road No. 183

The Department completed construction, partly by contract and partly by its own forces, of a single span reinforced and prestressed concrete bridge on Gardeners Road (Main Road No. 183) over the Airport Access Road. The new structure is 224 feet long and carries six traffic lanes.

Murray River at Tintaldra-Main Road No. 281

The Department completed extensions by contract to the existing two-lane bridge. Five spans each 40 feet long, and comprising steel girders with a concrete deck supported by concrete piled piers, were provided for the greater waterway area.

Pedestrian Bridge over Warringah Road-Main Road No. 328

The Department completed construction by contract of a prestressed and reinforced concrete footbridge over Warringah Road near its intersection with Main Road No. 529 (Forest Way). The new pedestrian bridge is 320 feet long.

Epsom Road, Rosebery-Main Road No. 593

The Department completed construction, partly by contract and partly by its own forces, of a two-span prestressed and reinforced concrete girder bridge 202 feet long and providing four traffic lanes.

Castlereagh River at Binnaway—Developmental Road No. 1170

Coonabarabran Shire Council completed construction by contract of a six-span, steel and reinforced concrete bridge 360 feet long and providing two traffic lanes.

Principal Bridgeworks in Progress at the Beginning of the Year and Not Completed

Nepean River at Regentville—Western Expressway

The Department continued construction by contract of a five-span prestressed concrete bridge which will be 1,045 feet long and will initially provide two traffic lanes and two footways, with provision for future widening.

Nepean River at Camden-State Highway No. 2-Hume Highway

The Department continued construction, partly by contract and partly by its own forces, of a new twenty-six span steel and concrete bridge approximately one mile upstream from the present crossing. The new bridge will be 3,380 feet long and will carry two traffic lanes and one footway.

Unnamed Creek at Tabbimobile—State Highway No. 10—Pacific Highway

The Department continued construction of a six-span reinforced and prestressed concrete bridge 49.5 miles north of Grafton. The new bridge will be 211 feet long, will provide two traffic lanes and will replace a causeway.

Black Creek—State Highway No. 16—Bruxner Highway

The Department continued construction by contract of a reinforced and prestressed concrete bridge, 80 miles west of Ballina. The new bridge will be 240 feet long, will provide two traffic lanes and is situated on a deviation of the Highway. The existing timber bridge will remain open for local traffic.

North Arm of the Hutter River at Stockton-Main Road No. 108

The Department continued construction by contract of a 23-span reinforced and prestressed concrete bridge. Bored pile foundations for 16 approach spans were constructed by the Department. The new bridge will be 3,357 feet long with four traffic lanes and a footway. It will eliminate the Newcastle-Stockton vehicular ferry service.

Edward River at Moulamein-Main Road No. 319

Wakool Shire Council continued construction by contract of a six-span reinforced concrete and steel bridge which will be 316 feet long and provide two traffic lanes and a footway. It will replace a narrow timber bridge, 356 feet long.

Principal Bridgeworks Commenced During the Year and Not Completed

Hawkesbury River at Peats Ferry-Sydney-Newcastle Expressway

The Department commenced construction, partly by contract and partly by its own forces, of a twelve-span steel and reinforced concrete bridge which will be 1,994 feet long and provide six traffic lanes.

Viaduct Structure—Western Distributor

The Department commenced construction of the first stage of the Western Distributor south of Sydney Harbour Bridge. This stage consists of a viaduct which will be 2,040 feet long and will provide four traffic lanes. The viaduct is a reinforced concrete box girder structure supported on reinforced concrete columns up to 74 feet high.

South Creek—Western Expressway

The Department commenced construction, partly by its own forces and partly by contract, of twin three-span prestressed concrete bridges to carry the Western Expressway over South Creek at St. Marys. The new bridges will be 210 feet long and provide four traffic lanes.

Bringelly Road Overbridge—Western Expressway

The Department commenced construction, partly by its own forces and partly by contract, of a three-span prestressed concrete girder bridge to carry Bringelly Road (Main Road No. 154) over the Western Expressway approximately 32.5 miles from Sydney. The new bridge will be 290 feet long and provide six traffic lanes.

Mulgoa Road Underpass—Western Expressway

The Department commenced construction, partly by its own forces and partly by contract, of a three-span prestressed concrete girder bridge to carry the Western Expressway over Mulgoa Road (Main Road No. 155) approximately 34.8 miles from Sydney. The new bridge will be 211 feet long and provide two traffic lanes.

Brooks Road Overbridge—South Western Expressway

The Department commenced construction, partly by its own forces and partly by contract, of a four-span steel and concrete bridge to carry Brooks Road over the South Western Expressway. The new bridge will be 280 feet long and provide two traffic lanes.

The Avenue—Southern Expressway

The Department commenced construction by contract of a single span reinforced and prestressed concrete bridge at "The Avenue" approximately 53 miles from Sydney. The new bridge will be 227 feet long and provide five traffic lanes.

Masters Road—Southern Expressway

The Department commenced construction by contract of a reinforced and prestressed concrete bridge to carry the future route of Masters Road over the Expressway, approximately 53 miles from Sydney. The new bridge will be 262 feet long and provide two traffic lanes.

Five Islands Road—Southern Expressway

The Department commenced construction by contract of twin three-span prestressed concrete bridges to carry the Southern Expressway over the proposed deviated route of Five Islands Road approximately 54 miles from Sydney. The new bridges will be 230 feet long and have two lanes for southbound traffic and three lanes for northbound traffic.

Macquarie Rivulet—State Highway No. 1—Princes's Highway

The Department commenced construction by contract of a five-span reinforced and prestressed concrete bridge 13.5 miles south of Wollongong. The new bridge will be 375 feet long and provide two traffic lanes.

Black Bobs Creek-State Highway No. 2-Hume Highway

The Department commenced construction by contract of a four-span reinforced and prestressed concrete bridge 93.8 miles from Sydney. The new bridge will be 280 feet long and provide two traffic lanes. It will replace an existing 20 feet span stone arch bridge.

Overbridge at the Intersection of State Highway Nos. 2 (Hume Highway) and 3 (Federal Highway)

The Department commenced construction of a three-span prestressed concrete bridge 285 feet long. It will provide two traffic lanes and eliminate the existing hazardous junction of the two highways.

Lower Warrell Crcek-State Highway No. 10-Pacific Highway

The Department commenced construction by contract of a six-span prestressed concrete bridge 752 feet long, 2 miles south of Macksville. The bridge will provide two traffic lanes and replace an old timber bridge 144 feet long.

Ti-Tree Creek—State Highway No. 16—Bruxner Highway

The Department commenced construction by contract of a three-span steel and concrete bridge 85.4 miles from Ballina. The new bridge will be 224 feet long and provide two traffic lanes. The bridge is on a deviation of the highway and the existing timber bridge, 113 feet long, will be retained for local traffic following completion of the deviation.

Tuckers Creek at Wentworth-State Highway No. 22-Silver City Highway

The Department commenced construction by contract of a five-span steel and concrete bridge 362 feet long. It will provide two traffic lanes and replace a timber bridge, 301 feet long.

Jerrawa Creek—Main Road No. 251

Gunning Shire Council commenced construction by contract of a five-span reinforced and prestressed concrete bridge 260 feet long, 9 miles north of Gunning. The new bridge will provide two traffic lanes and replace a timber beam bridge, 113 feet long.

Lake Illawarra at Windang—Main Road No. 522

The Department commenced construction by contract of a widened bridge over Lake Illawarra at Windang. The existing bridge consists of 33 spans (each 30 feet) of timber beam superstructure on concrete piers, and provides two traffic lanes. The new structure will be of concrete construction and will provide four traffic lanes.

Billabong Creek-Main Road No. 547

Culcairn Shire Council commenced construction by contract of a seven-span reinforced concrete bridge 390 feet long, 5 miles north of Walla Walla. The new bridge will provide two traffic lanes and replace an old timber bridge, 110 feet long.

Nowendoc River at Nowendoc-Developmental Road No. 1282

Walcha Shire Council commenced construction by contract of a three-span prestressed concrete girder bridge 210 feet long. It will provide two traffic lanes and replace a timber bridge, 115 feet long.

Jacobs River—Developmental Road No. 1297

Snowy River Shire Council commenced construction by contract of a three-span concrete and steel girder bridge, 40 miles from Jindabyne. The new bridge will be 240 feet long, provide two traffic lanes and replace two existing timber structures, each 40 feet long.

Cooks River-Near International Airport Terminal, Mascot

The Department commenced construction by contract of a six-span prestressed and reinforced concrete girder bridge which will be 691 feet long and provide six traffic lanes.

MAINTENANCE OF BRIDGES AND FERRIES

During the year the following major maintenance and repair works to bridges and ferries were carried out:

Bridge over Shoalhaven River at Nowra-State Highway No. 1-Prince's Highway

This bridge is 1,638 feet long and has eight steel truss spans and one 50 feet plate girder span. The underside of the deck was repainted, the lattice handrailing on each side of the carriage-way was repaired and repainted, and timber kerbs were provided between the handrailing and the traffic lanes.

Bridge over Clyde River at Batemans Bay-State Highway No. 1-Prince's Highway

This bridge is 950 feet long with five 120 feet steel truss spans, one 95 feet steel lift span, and four steel girder spans. The steelwork of the bridge was repainted.

Bridge over the Wagonga River at Narooma—State Highway No. 1—Prince's Highway

This bridge has two 160 feet steel truss spans and one 63 feet steel girder bascule span. The steelwork of the structure was repainted.

Prince Alfred Bridge over the Murrumbidgee River at Gundagai—State Highway No. 2—Hume Highway

This bridge is 3,040 feet long and has seventy-eight timber beam spans and three iron truss spans. Major repairs to timber structural members and deck repairs continued throughout the year.

Dunolly Bridge over the Hunter River at Singleton—State Highway No. 9— New England Highway

This bridge is 608 feet long and has two 154 feet steel truss spans with a timber deck and nine timber beam spans. Replacement of the timber decking was completed.

Bridge over Hawkesbury River—State Highway No. 10—Pacific Highway

This steel and concrete bridge is 1,975 feet between abutments and has two 440 feet steel truss spans. Painting of the steelwork below deck level was commenced.

Martin Bridge over the Manning River at Taree—State Highway No. 10—Pacific Highway

This bridge is 1,558 feet long and has eleven 120 feet steel truss spans, three 40 feet steel beam spans and a 63 feet lift span. The operating ropes on the lift span were renewed and repainting of the bridge was completed.

Bridge over the Richmond River at Wardell-State Highway No. 10-Pacific Highway

This bridge is 736 feet long with seven 70 feet concrete beam spans and an 84 feet steel truss lift span. The existing timber fendering system is being replaced by stronger fenders and dolphins with steel piles. The work is being carried out by contract.

Bridge over the Tweed River at Barneys Point-State Highway No. 10-Pacific Highway

This bridge is 626 feet long with eight 35 feet steel beam spans, two 140 feet steel truss spans, and one steel girder bascule span.

Extensive repairs to the substructure are in progress and the steelwork has been painted.

Bridge over Terranora Inlet at Boyds Bay-State Highway No. 10-Pacific Highway

This bridge is 477 feet long and has one 54 feet steel girder lift span and twelve 35 feet steel beam spans. Major repairs are being carried out to the substructure, and the bridge steel-work was painted.

Bridge over Uargon Creek—State Highway No. 11—Oxley Highway

This bridge is 82 feet long and has three timber beam spans. During the year the bridge was widened from 17 feet to 24 feet between kerbs.

Ross Hill Bridge over Macintyre River at Inverell-State Highway No. 12-Gwydir Highway

This bridge is 440 feet long, with three 110 feet timber truss spans and four timber beam spans. Repairs were carried out to the girders and truss members.

Four Approach Bridges to the Bridge over the Murray River at Mildura—State Highway No. 14— Sturt Highway

These timber beam bridges have a combined length of 1,330 feet. Replacement of a number of girders and piles, and extensive repairs to the decking were carried out.

Bridge over Sandy Hills Creek-State Highway No. 16-Bruxner Highway

This bridge is 268 feet long and has one 90 feet truss span and six timber beam spans. New decking has been provided.

Bridge over Little Oaky Creek-State Highway No. 24-Mount Lindesay Highway

This timber beam bridge has three 30 feet spans. Extensive repairs to piles, girders and decking were carried out.

Bridge over Myall Creek—Trunk Road No. 63

This bridge is 477 feet long and has three 90 feet timber truss spans and six timber beam spans. Girders damaged by a heavy load were replaced, and worn decking renewed.

Bridge over Lower Creek-Trunk Road No. 75

This bridge is 185 feet long and has two 90 feet timber truss spans. The structure was strengthened with a Bailey truss in preparation for extensive repairs in the following year.

Hampden Bridge over Murrumbidgee River at Wagga Wagga—Trunk Road No. 78

This bridge is 645 feet long and has three 110 feet timber truss spans and nine timber beam spans. Major repairs to the trusses, girders, and decking, were commenced.

No. 3 Approach Bridge to the Bridge over the Murray River at Corowa—Trunk Road No. 86

This timber beam bridge is 220 feet long and has eleven spans. Complete re-decking was completed during the year.

John Foord Bridge over Murray River at Corowa-Trunk Road No. 86

This bridge is 499 feet long and has one 140 feet span and two 112 feet iron spans, with four 30 feet timber beam spans. Full replacement of the decking was almost completed during the year.

Bridge over the Hunter River at Morpeth-Main Road No. 102

This bridge is 924 feet long and has three 110 feet timber truss spans and seventeen timber beam spans. Major repairs to truss members and substructure were completed and the decking on the timber beam spans was replaced.

Ferry Service over the Hunter River at Stockton-Main Road No. 108

Each of the three free running ferry vessels in this service received its annual overhaul. In addition, the vessels were docked for regular hull inspections between overhauls.

Redbourneberry Bridge over the Hunter River at Singleton-Main Road No. 128

This bridge is 1,230 feet long and has two 91 feet and one 119 feet lattice-type truss spans and twenty-six timber beam spans. The trusses, and the buckle plates under the deck on the lattice truss spans, were sandblasted and repainted. Replacement of the decking on the timber beam spans was commenced.

Ferry Service over the Richmond River at Coraki-Main Road No. 149

The eight-vehicle ferry vessel, replaced by a bridge over the Hunter River at Raymond Terrace, has been transferred to the Richmond River for overhaul before it replaces the six-vehicle ferry vessel now operating at Coraki.

Bridge over Middle Harbour at The Spit, Sydney-Main Road No. 164

This steel bridge is 745 feet long and has six 100 feet plate girder spans and one single leaf 90 feet bascule opening span. Repairs to the machinery for the opening span and repainting of the bridge were completed.

Glebe Island Bridge, Johnstons Bay, Sydney-Main Road No. 165

This steel bridge is 355 feet long and has two 96 feet swing spans and two 80 feet truss spans. Twenty timber piles in the swing span protection platform were replaced during the year.

Bridge over Tarban Creek, Sydney-Main Road No. 166

This concrete bridge is 749 feet long and has eight 57 feet spans and a central span of 289 feet. Repairs to the prestressing system in the portal leg joints of the central span were completed.

Bridge over the Nepean River at Maldon-Main Road No. 179

This structure is 457 feet long with one 226 feet suspension span and seven timber beam spans.

The existing diagonal decking on the suspension span was replaced by transverse decking, new longitudinal sheeting installed, and steel sway bracing provided under the deck.

Bridge over the Murray River at Cobram-Main Road No. 226

The bridge has two 104 feet timber and steel truss spans, a 58 feet lift span, and ten timber beam spans. Replacement of one pier, one abutment, and 60 per cent of the deck was completed during the year.

Bridge over the Murrumbidgee River at Darlington Point-Main Road No. 321

This bridge is 676 feet long and has fifteen timber beam spans, one timber and steel truss span, and a bascule lift span. Replacement of 60 per cent of the decking was completed.

Bridge over the Murray River at Euston-Main Road No. 583

This steel bridge is 2,180 feet long, has six girder spans, one 63 feet girder lift span, and sixty-seven beam spans.

Work commenced on the replacement of the timber decking and kerbs on the sixty-seven steel beam spans.

Bridge over the Barrington River, north of Gloucester-Developmental Road No. 1150

This bridge is 275 feet long, has two 90 feet timber truss spans and three 30 feet timber beam spans. Extensive replacement of truss members was carried out and the two truss spans were strengthened by undertrussing.

Bridge over Wyaldra Creek at Beryl, eight miles west of Gulgong

This bridge is 235 feet long and has two 71 feet timber truss spans and three 30 feet timber beam spans. Extensive repairs were effected to the substructure and the decking, and the bridge was repainted.

Thalgarah Bridge over the Gara River near Armidale

This bridge is 135 feet long and has two 30 feet timber beam spans and a 75 feet span supported by Bailey trusses. Extensive repairs to the decking were carried out and the Bailey truss was painted.

Rankins Bridge over Macquarie River at Eglinton

This bridge is 570 feet long and has two 90 feet timber truss spans and thirteen 30 feet timber beam spans. General repairs and repainting were carried out.

ELIMINATION OF RAILWAY LEVEL CROSSINGS ON MAIN ROADS

During the year seven (7) railway level crossings were eliminated from the Main Roads System.

This reduced the number of level crossings on Main Roads to 389, comprising 333 on New South Wales Government Railways, 45 on privately-owned railways and 11 on Victorian Government Railways which extend into New South Wales.

Since the Main Roads Act came into effect in 1925, 176 level crossings have been eliminated from the Main Roads System.

During the year the following crossings were eliminated:

State Highway No. 8-Barrier Highway

The construction of an overbridge 39.6 miles west of Nyngan at Muriel Tank eliminated one level crossing. The construction of the standard gauge railway line between Broken Hill and Adelaide has involved the closing of part of the narrow gauge railway network in Broken Hill. This has resulted in the closing of an additional two level crossings on the Barrier Highway, at Bromide Street and Argent Street.

State Highway No. 13-Woodville Road

The construction of an overbridge at Villawood eliminated one level crossing.

State Highway No. 22-Silver City Highway

The construction of an overbridge eliminated the level crossing at South Street, Broken

Hill.

Trunk Road No. 66

The closure of part of the narrow gauge railway network in Broken Hill resulted in the elimination of the level crossing on Trunk Road No. 66 at Menindee Road.

Trunk Road No. 81

The construction of an overbridge eliminated one level crossing from Trunk Road No. 81 at Gypsum Street, Broken Hill.

To improve safety conditions at existing level crossings, improvements were carried out at a number of locations by the installation of six sets of automatic flashing lights, the widening of level crossings and the realignment and widening of the approaches.

The improvements to, or elimination of, a number of level crossings during the year, were recommended by the Inter-Departmental Level Crossing Committee of which the Department of Main Roads is a member. This Committee met on four occasions during the year.

TRAFFIC SERVICE

Median Strips

During the year a total length of 12.4 miles of median strip was constructed, of which approximately 80 per cent was in the Sydney Metropolitan Area. The balance was constructed in the Cities of Newcastle, Goulburn and Tamworth and the Shires of Scone and Lake Macquarie.

Channelisation of Intersections

Channelisation was completed at 24 intersections and work was in progress at a further 11 sites. During the year, designs were completed for future channelisation at 57 intersections. Some of the sites at which construction of channelisation was completed, were:

State Highway	No.	2	Hume Highway, Shire of Kyeamba. Intersection with Sturt Highway (State Highway No. 14) near Tarcutta.
State Highway	No.	5	Great Western Highway, Municipality of Holroyd. Intersection with Old Prospect Road, Wentworthville.
State Highway	No.	5	Great Western Highway, City of Penrith. Western in- tersection with Secondary Road No. 2082 — Henry Street, Penrith.
State Highway	No.	7	Mitchell Highway, City of Dubbo. Intersection with Newell Highway (State Highway No. 17) on ap- proaches to the L.H. Ford Bridge.
State Highway	No.	9	New England Highway, Shire of Scone. Intersection with Surman and Main Streets, Scone.
State Highway	No.	9	New England Highway, City of Newcastle. Intersection with Main Road No. 588 on Beresfield Deviation.
State Highway	No.	10	Pacific Highway, City of Newcastle. Intersection at Kahibah Road.
State Highway	No.	10	Pacific Highway, Shire of Tweed. Intersection at the New South Wales/Queensland Border.
State Highway	No.	13	Woodville Road, Municipality of Bankstown. Inter- section at the Villawood railway overbridge with 1. River Avenue 2. Christina Road 3. Llewellyn Avenue
State Highway	No.	14	Sturt Highway — Dobrey Avenue, City of Wagga Wagga. Intersection with Chaston, Pearson and Urana Streets.
State Highway	No.	14	Sturt Highway, City of Wagga Wagga. Intersection with Trunk Road No. 78 (Olympic Way) — Edward and Baylis Streets, Wagga Wagga.
State Highway	No.	22	Silver City Highway, Shire of Wentworth. Intersection with Trunk Road No. 68 — Pooncarie Road and Armstrong Avenue, Wentworth.

State Highway No. 22	Silver City Highway, Shire of Wentworth. Intersection with Darling Street, Wentworth.
Main Road No. 167	Canterbury Road, Municipality of Bankstown. Inter- section with Secondary Road No. 2068 — River Road.
Main Road No. 184	Windsor Road, Municipality of Windsor. Intersection with Main Road No. 182 — Bridge Street, Windsor.
Main Road No. 200	Devlin Street, Municipality of Ryde. Intersections with Blaxland Road (south) and with Main Road No. 139 — Blaxland Road (north) and Main Road No. 162 Lane Cove Road, Top Ryde.
Main Road No. 227	The Kingsway, Shire of Sutherland. Intersection with Port Hacking Road North and Kareena Road. Interim Layout.
Main Road No. 139	Beecroft Road, City of Parramatta. Intersection with Main Road No. 373 — Carlingford Road.
Main Road No. 522	Municipality of Shellharbour. Intersection with Lake Entrance Road.
Stacey Street	Stacey Street, Municipality of Bankstown. Intersection with the extension of North Terrace at the railway overbridge.
Secondary Road 2033/2052	Ryde Road, Municipalities of Ryde and Hunters Hill. Intersection with Pittwater Road (in conjunction with traffic signals).
Secondary Road 2074	Anzac Parade, Municipality of Randwick. Intersection with Franklin Street, Malabar.

Bus Bays

Six bus bays were established to permit buses on Main Roads to stop clear of moving traffic. Two of the bays were in the Sydney Metropolitan Area, two in the City of Broken Hill and the remaining two in the Shire of Lake Macquarie.

Climbing Lanes on Hills

During the year, the construction of twelve climbing lanes for slow-moving vehicles was completed. In addition, two existing climbing lanes were lengthened and work was commenced at three sites. Some of the locations at which climbing lanes were completed are listed below:

State Highway No. 1	Prince's Highway — Shire of Imlay. Northbound traffic at Edrom Road Junction, 16.5 miles south of Eden.
State Highway No. 2	Hume Highway — Shire of Gunning. Northbound traffic between 30.2 and 31.4 miles south of Goulburn.
State Highway No. 2	Hume Highway — Shire of Goodradigbee. Northbound traffic between 18.1 and 19.5 miles south of Yass.
State Highway No. 5	Great Western Highway — City of Blue Mountains. Victoria Pass 11.3 to 12.0 miles, westbound lane; 11.6 to 12.0 miles, eastbound lane.
State Highway No. 10	Pacific Highway — Shire of Stroud. One mile north of Bulahdelah.
State Highway No. 14	Sturt Highway — Shire of Kyeamba. Between 17.45 and 18.55 miles from Hume Highway. State Highway No. 2 at Coxs Folly.
State Highway No. 19	Monaro Highway — Shire of Monaro. Northbound traffic at Driscolls Hill, 57.5 miles south of Canberra.
Trunk Road No. 74	Shire of Dumaresq. Between 41.3 miles and 41.6 miles east of Armidale.
Main Road No. 178	Camden-Campbelltown Road. Eastbound traffic at Kennys Hill.
Main Road No. 513	Mt. Ousley Road — City of Wollongong. Southbound traffic between junctions of Main Road No. 186 and Main Road No. 502.
Main Road No. 603	City of Newcastle. Carnley Avenue to State Highway No. 23 at New Lambton.

Signposting and Roadside Furnishings

The largest single signposting project undertaken during the year was on South Dowling Street, Southern Cross Drive and the roads leading to Sydney (Kingsford Smith) Airport, Mascot.

Following the completion of experiments with different types of background material for signs, the Department adopted a new type of spray-on, polyeurethene plastic which is expected to increase the durability of sign backgrounds against weathering and reduce the adverse effects of background reflectance. At the same time the background colour of advance direction signs and important direction signs has, for aesthetic reasons, been changed from black to a dark green. In conjunction with these changes the Department has extended the use of lower-case lettering for the destination legends of all advance direction and major direction signs to improve their legibility.

The use of Reassurance Direction Signs is being extended progressively throughout the State where new signs are being erected at intersections or are being renewed. These signs are located beyond intersections and at the outskirts of large towns to give the distances to the next four or five towns through which the road passes. As the name implies, their purpose is to reassure a driver that, having passed through an intersection or large town, he is on the correct road.

Following the successful use of raised pavement markers on expressways in lieu of painted lane lines, the Department has extended the use of raised reflective pavement markers to other roads. The principal uses have been to give added delineation to double lines (No-overtaking) at night and for delineation of narrow median strips on sections of curved alignment. Experimental work in this regard is continuing.

Advisory Speed Signs

The extension of absolute speed limits to many of the major roads throughout the State has necessitated an accelerated programme of advisory speed surveys, particularly on those roads where the speed limit has been raised from a prime facie 50 m.p.h. to an absolute 60 m.p.h.

During the year, 2,100 miles of road were surveyed, of which 1,010 miles involved resurvey due to new speed limits.

The new surveys included State Highway No. 11 (Oxley Highway) from Tamworth westward to the western Coonabarabran Shire Boundary. Trunk Road No. 63 from Tamworth to the Southern Boundary of Bingara Shire, and Main Road No. 130 south of Tamworth to State Highway No. 9 (New England Highway). Surveys were also conducted in the Snowy Mountains Area, on State Highway No. 4 (Snowy Mountains Highway) from State Highway No. 2 (Hume Highway) to Talbingo, and on Trunk Road No. 85 from Tumut to Tumbarumba.

Included in the roads re-surveyed were the whole length of State Highway No. 2 (Hume Highway), 260 miles of State Highway No. 9 (New England Highway) and State Highway No. 5 (Great Western Highway) from Parramatta to Bathurst.

Accident Analysis and Investigation

The special investigation of fatal accident sites of State Highways, which was commenced in 1966, was continued throughout the year. An analysis has also been made of the accident rates per million miles of vehicle travel for all reported accidents on all rural State Highways and a listing prepared for each Divisional Area showing the lengths of roads where the rates appear to be abnormally high. These lengths of road will be given special investigation to determine to what extent road conditions may have been a contributing cause and what remedial measures may be desirable.

Travel-Time Surveys

Due to the acceleration programme of Advisory Speed Surveys, work on travel-time surveys had to be restricted throughout the year. The surveys which were undertaken were confined mainly to "before and after" studies associated with new works such as the opening of Southern Cross Drive and the construction of the new railway overbridge at Stacey Street, Bankstown.

PLANT AND MOTOR VEHICLES

Plant to the value of \$3,774,412 was purchased for the replacement of existing plant and to provide for some additional requirements.

A Supervising Engineer from the Mechanical Engineer's Section investigated automatic trimmer-spreaders in the United States of America and subsequently a machine was ordered capable of trimming sub-grades, spreading and trimming road base material and paving with asphalt. It is a dual lane (24 feet wide) machine capable of trimming, spreading or paving one to three miles per day. Automatic controls working to preset stringlines give accurate control of grade and crossfall. The machine should increase the quality and rate of expressway pavement construction and at the same time lower costs.

An hydraulic wedge device was purchased for the safe and silent splitting of rock in the Sydney Metropolitan Area.

The value of motor vehicles of all types purchased for replacement or new requirements was \$1,080,180.

The total value of payments made to private owners for hire of plant was \$4,866,000 a decrease of approximately 19% on the previous year.

Facilities were provided for the maintenance of plant and vehicles, and for general mechanical and electrical engineering services.

Central Workshop

A total of 6,381 jobs were completed by the workshop, at a total value of \$2,737,485.

Activities for the year were as follows:

Property repairs and general building work		31%
Sign manufacture		14%
Manufacture and repair of plant and overhaul of ferries	••••	15%
Plumbing and electrical services to Metropolitan and Parramatta Division	ns and	
general transport services		14%
Structural steelwork and concrete reinforcing steel for bridges, etc.		13%
Special projects and Miscellaneous work		13%

Building work included the construction of office, laboratory and amenities buildings at St. Marys and Campbelltown and the commencement of similar work at Waterfall; extensive modifications to buildings at Cooma to establish office, workshop, and amenities facilities; a laboratory for the construction work on the Western Distributor; major alterations and extensions to the Materials and Research Laboratory at Milsons Point; and modifications to the Metropolitan Divisional office and the toll office at the Sydney Harbour Bridge.

Maintenance was carried out on Departmental properties in the Sydney Metropolitan Area, including tenanted houses acquired for future road construction. Inspections were carried out on country residences.

Approximately 13,800 road signs were manufactured.

All plant and motor vehicle repairs for the Metropolitan Construction Works Office and the Western Expressway Construction Office at St. Marys together with a number of large plant repair jobs for other Works Offices were carried out.

Two large vehicular ferries were overhauled at Mortlake Slipway, and Central Workshop personnel assisted and supervised the overhaul of a further nine ferries throughout the State.

The manufacture of three truck-mounted linemarkers was completed.

A control box was developed for Linemarking Machines to enable adjustment of the length of line and length of gap whilst the machine is in operation. This facility is of advantage when remarking existing lines.

Steel handrails, totalling 2,480 feet in length, were fabricated for a number of bridges.

Approximately 1,100 tons of steel reinforcement were cut and bent to shape for use in concrete bridges and culverts.

Fifty-eight bitumen sprayers, owned by contractors, Councils and the Department, were tested during the year for the purpose of issuing or renewing Sprayer Certificates.

Special projects included the design, manufacture, and erection of a special moveable toll cabin system associated with the introduction of one-way toll on the Sydney Harbour Bridge.

Field Workshops

The Department's field workshops throughout the State numbered forty-one, including two established during the year at Cooma and Wilcannia.

The fourth stage of a Workshop Supervisors' Training Course was conducted at Granville for all foremen in charge of field workshops. The purpose of the course is to keep foremen informed of modern developments. The subjects included in this stage of the course were diesel fuel systems, cooling systems, tyres, two-way radio and apprentices.

Plant Inspectors carried out regular inspections and assisted workshop personnel with plant repair problems. With the assistance of teaching aids, Inspectors gave instruction to field personnel on new types of plant.

A successful campaign was carried on to increase the number of apprentices in the country and this resulted in an increase from thirty-two to forty-two apprentices.

BITUMINOUS SURFACING

BITUMINOUS SURFACING COMPLETED DURING THE YEAR ENDED 30th JUNE, 1970

Scheduled according to Road Classifications

TABLE 1-ROAD MILES

Nature of Work	Express- ways	State Highways	Trunk Roads	Ordinary Main Roads	Secondary Roads	Tourist Roads	Develop- mental Roads	Unclassi- fied Roads	All Roads Sub Total
 Initial Surfacing— A. Prime B. Primer Seal C. Sprayed Seal D. Slurry Seal E. Plant Mix 		14.86 10.08 104.41 	2.57 3.42 44.39	$ \begin{array}{r} 2.70 \\ 2.44 \\ 139.52 \\ \hline 1.07 \end{array} $		3.08	 8.44 	 	20.13 15.94 301.44 1.07
Sub Total 2. Surfacing Lengths Primed before this Year— A. Prime B. Primer Seal C. Sprayed Seal D. Slurry Seal E. Plant Mix	·	129.35 5.13 84.88 —	50.38 0.68 	145.73 <u>-</u> 25.76 <u>-</u> 		3.08	8.44 		338.58
Sub Total 3. Restoration after Widening and/or Strengthening— A. Prime B. Primer Seal C. Sprayed Seal D. Slurry Seal E. Plant Mix		$90.01 \\ 2.76 \\ 3.14 \\ 45.90 \\ - \\ 5.03$	0.68 	25.76 0.11 25.09 5.52	 				116.45 2.87 3.14 77.94
4. Restoration after Adding Lanes— A. Prime B. Primer Seal C. Sprayed Seal D. Slurry Seal E. Plant Mix Sub Total		56.83 3.46 1.36 15.22 7.34 27.38	6.95 	$ \begin{array}{r} 30.72 \\ 0.17 \\ \overline{} \\ \overline$	0.58 			 0.65	95.08 3.63 1.36 15.74 16.71 37.44

INDEE I NOND MIEEO COMUNICO	TABLE	1—ROAD	MILEScontinued
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Nature of Work	Express- ways	State Highways	Trunk Roads	Ordinary Main Roads	Secondary Roads	Tourist Roads	Develop- mental Roads	Unclassi- fied Roads	All Roads Sub Total
 5. Restoration after New Alignment and/or Grade— A. Prime B. Primer Seal C. Sprayed Seal D. Slurry Seal E. Plant Mix 		$ \begin{array}{r} 10.39 \\ 7.74 \\ 34.81 \\ \overline{} \\ 5.27 \\ \end{array} $	 5.75 	$ \begin{array}{r} 2.20 \\ 2.98 \\ 22.26 \\ \hline{1.75} \end{array} $	 			 	12.59 10.72 62.82
6. Maintenance Resurfacing— A. Prime B. Primer Seal C. Sprayed Seal D. Slurry Seal E. Plant Mix Sub Total		$ 58.21 \underline{-} 180.00 \underline{-} 13.91 193.91 $	5.75 	$ \begin{array}{r} \overline{29.19} \\ 0.07 \\ 233.91 \\ \overline{17.69} \\ \overline{251.67} \\ \end{array} $	$ \begin{array}{c} 0.94 \\$	2.40		0.52 	94.61 0.07 551.87 36.67 588.61
Summary of 1 to 6 A. Prime B. Primer Seal C. Sprayed Seal D. Slurry Seal E. Plant Mix TOTAL		$ \begin{array}{r} 31.47\\27.45\\465.22\\\overline{}\\\overline{}\\555.69\end{array} $	2.573.42189.71 $$	5.25 5.42 447.06 $$		5.48 5.48 5.48	10.07 	<u> </u>	39.29 36.29 1,121.13 74.06 1,270.77

TABLE 2---LANE MILES

 Initial Surfacing— A. Prime B. Primer Seal C. Sprayed Seal D. Slurry Seal E. Plant Mix 	 29.72 20.16 208.82	5.14 6.84 88.78 	$5.40 \\ 4.88 \\ 275.87 \\ \overline{3.21} \\ \overline{3.21}$	<u> </u>	 16.77 	3.20	$ \begin{array}{r} 40.26 \\ 31.88 \\ 599.60 \\ \hline 3.21 \\ \hline \end{array} $
2. Surfacing Lengths Primed before this Year—	 258.70	100.76	289.36	 6.16	16.77	3.20	674.95

36

	C. Sprayed Seal			169.76	1.36	51.52					222.64
	D. Slurry Seal E. Plant Mix						_				
		Sub Total		182.18	1.36	51.52					235.06
3.	Restoration after Widening and/or Strengthening- A. Prime	-		5.52		0.44					5.96
	B. Primer Seal			6.28	_	<u> </u>			_		6.28
	C. Sprayed Seal			91.90	13.90	52.00		—			157.80
	D. Slurry Seal E. Plant Mix	• • • • • • • • • • • • • • • • • • • •		16.48		23.89	1.90			_	42.27
		Sub Total		120.18	13.90	76.33	1.90	_			212.31
4.	Restoration after Adding Lanes— A. Prime			10.20	_	0.68		_			10.88
	B. Primer Seal C. Sprayed Seal			4.08 32.98		1.38			-		4.08 34.36
	D. Slurry Seal			52.90		1.50	_				
	E. Plant Mix		— .	25.03		17.95	12.58		<u> </u>	2.98	58.54
_		Sub Total		72.29		20.01	12.58			2.98	107.86
5.	Restoration after New Alignment and/or Grade A. Prime			21.86	_	4.40					26.26
	B. Primer Seal			15.78		5.96				<u> </u>	21.74
	C. Sprayed Seal D. Slurry Seal			78.42	11.80	44.71	<u> </u>			-	134.93
1 1	E. Plant Mix		_	17.44		9.08	3.81			3.12	33.45
		Sub Total		133.50	11.80	64.15	3.81			3.12	216.38
6.	Maintenance Resurfacing—			-	-						
	A. Prime B. Primer Seal					0.28	_				0.28
	C. Sprayed Seal			366.02	266.20	451.04	3.98	4.80	1.63		1,093.67
	D. Slurry Seal E. Plant Mix			41.63	1.56	58.12	10.26		<u> </u>		111.57
		Sub Total		407.65	267.76	509.44	14.24	4.80	1.63		1,205.52
Su	immary of 1 to 6—		1								-
	A. Prime B. Primer Seal			67.30 58.72	5.14 6.84	11.20 10.84	 				83.64 76.40
	C. Sprayed Seal		<u> </u>	947.90	382.04	876.52	3.98	10.96	18.40	3.20	2,243.00
	D. Slurry Seal E. Plant Mix			100.58	1.56	112.25	28.55			6.10	249.04
		TOTAL		1,174.50	395.58	1,010.81	32.53	10.96	18.40	9.30	2,652.08

BITUMINOUS SURFACING COMPLETED DURING THE YEAR ENDED 30th JUNE, 1970

Scheduled according to work by Department and Councils

TABLE 1-ROAD MILES

Notice of Work	By Dep	artment	By Councils	
Nature of Work	Direct	Contract	Direct	Contract
1. Initial Surfacing— A. Prime B. Primer Seal C. Sprayed Seal D. Slurry Seal E. Plant Mix	14.36 10.08 89.91	2.40 6.05	 52.29 	3.37 5.86 153.19 —
Sub Total 2. Surfacing Lengths Primed Before this Year— A. Prime B. Primer Seal C. Sprayed Seal D. Slurry Seal E. Plant Mix	114.35 5.13 73.86	8.45 	53.36	162.42
Sub Total 3. Restoration after Widening and/or Strengthening A. Prime B. Primer Seal C. Sprayed Seal D. Slurry Seal E. Plant Mix	78.99 2.76 1.23 28.21 10.23	 1.91 17.08 	 4.97 	37.46 0.11 27.68 0.90
Sub Total 4. Restoration after Adding Lanes— A. Prime B. Primer Seal C. Sprayed Seal D. Slurry Seal E. Plant Mix	42.43 2.28 1.36 14.90 10.38	18.99 — — — — — — — —	4.97 	28.69 1.35 0.27 4.89
Sub Total 5. Restoration after New Alignment and/or Grade A. Prime B. Primer Seal C. Sprayed Seal D. Slurry Seal E. Plant Mix	28.92 8.21 4.74 21.10 7.21	$0.16 \\ 1.50 \\ 11.11 \\ 0.51 \\$	1.85 0.60 8.09 	6.51 2.88 5.38 22.52 0.76
6. Maintenance Resurfacing— A. Prime B. Primer Seal C. Sprayed Seal D. Slurry Seal E. Plant Mix Sub Total	41.26 <u></u> 149.86 <u>23.90</u> <u>173.76</u>	$ \begin{array}{c} 13.12 \\ - \\ 35.86 \\ - \\ 35.86 \\ \hline 35.86 \\ \end{array} $	8.69 	$ \begin{array}{c} 31.54\\ 0.07\\ 301.56\\ \hline 8.60\\ 310.23\\ \end{array} $
Summary of 1 to 6— A. Prime B. Primer Seal C. Sprayed Seal D. Slurry Seal E. Plant Mix TOTAL	27.61 22.54 377.84 51.72 479.71	3.90 1.91 70.26 0.51 76.58	$ \begin{array}{r} \overline{).60} \\ 130.35 \\ \overline{6.68} \\ \overline{137.63} \end{array} $	7.78 11.24 542.68 15.15 576.85
		Department Councils		29 miles 48 miles 77 miles

TABLE 2-LANE MILES

Nature of Work	By Dep	artment	By Councils		
	Direct	Contract	Direct	Contract	
 Initial Surfacing— A. Prime B. Primer Seal C. Sprayed Seal D. Slurry Seal E. Plant Mix 	28.72 20.16 179.82	4.80 12.10 		6.74 11.72 303.10 	
Sub Total	228.70	16.90	107.79	321.56	
 Surfacing Lengths Primed Before this Year— A. Prime B. Primer Seal C. Sprayed Seal D. Slurry Seal E. Plant Mix 	12.42 147.72 —		 	 74.92 	
Sub Total	160.14			74.92	
 Restoration after Widening and/or Strengthening A. Prime B. Primer Seal C. Sprayed Seal D. Slurry Seal E. Plant Mix 	5.52 2.46 57.34 <u></u>	3.82 34.26 	9.94 —	$ \begin{array}{r} 0.44\\ \underline{}\\56.26\\ \underline{}\\2.70\end{array} $	
Sub Total	104.89	38.08	9.94	59.40	
 4. Restoration after Adding Lanes— A. Prime B. Primer Seal C. Sprayed Seal D. Slurry Seal E. Plant Mix 	5.48 4.08 29.96 	0.48	 	5.40 2.16 15.64	
Sub Total 5. Restoration after New Alignment and/or Grade A. Prime B. Primer Seal C. Sprayed Seal D. Slurry Seal E. Plant Mix	75.18 17.30 9.78 49.92 	$0.48 \\ 3.20 \\ 23.30 \\ 1.02 \\$	9.00 <u>1.20</u> 16.37 <u>-</u>	23.20 5.76 10.76 45.34 	
6. Maintenance Resurfacing—	106.64	27.52	17.57	64.65	
A. Prime B. Primer Seal C. Sprayed Seal D. Slurry Seal E. Plant Mix Sub Total	$ \begin{array}{c}$		$ \begin{array}{c}\\ 132.34\\ 15.39\\ 147.73 \end{array} $	$ \begin{array}{c c} 0.28 \\ 587.23 \\ \hline 23.27 \\ \hline 610.78 \end{array} $	
Summary of 1 to 6— A. Prime B. Primer Seal C. Sprayed Seal D. Slurry Seal	57.02 48.90 767.14	8.00 3.82 141.86	1.20 264.99	18.62 22.48 1,069.01	
D. Slurry Seal E. Plant Mix	177.78	1.02	25.84	44.40	
TOTAL	1,050.84	154.70	292.03	1,154.51	
		Department Councils		54 miles 54 miles 	

TYPES OF ROAD SURFACES AS AT 30th JUNE, 1970

Scheduled according to Road Classifications

	Cement Concrete	Bitumen Concrete	Bitumen Other	Gravel	Formed Only	Natural Surface	Total
	C	U COUNTY OF C	 UMBERLAND			1	
Expressways State Highways	30.19	9.88 135.37	28.16				9.88 193.72
Trunk Roads Main Roads Secondary Roads	46.94	353.70 124.16	270.78 38.43	1.66 0.52		0.35	673.43 176.19
Tourist Roads Developmental Roads		4.95	35.31	2.26	0.20	8.50 4.28	51.02 13.60
Unclassified Roads		5.71	1.30				7.01
Sub Total	87.98	633.77	379.38	8.16	0.20	15.36	1,124.85
		COUN	TRY	I	1.	1	12.92
Expressways State Highways	27.86	13.82 208.41	5,235.11	415.65	457.78		13.82 6,344.81
Trunk Roads	6.43 13.11	8.30 128.62	2,419.02 4,641.90	1,183.07 4,186.63	627.94 1,895.69	32.88	4,244.76 10,898.83
Secondary Roads		0.92	100.85	41.07	7.98	17.18	168.00
Developmental Roads Unclassified Roads			88.14 22.44	1,776.13 17.48	691.86 1,527.27	171.62	2,727.75 1,567.19
Sub Total	47.40	360.07	12.507.46	7.620.03	5.208.52	221.68	25,965.16
	TOTAL F	OR STATE OF	NEW SOUTH	WALES			
	(Co		and and Country	<i>י</i>)			
Expressways	 50.05	26.04	5 0 (2 07	415.65	457.78		26.04
State Highways Trunk Roads	58.05 6.43	343.78 8.30	5,263.27 2,419.02	1,183.07	627.94	—	6,538.53 4,244.76
Main Roads	60.05	482.32	4,912.68	4,188.29	1,895.69	33.23	11,572.26
Secondary Roads	10.85	124.16	38.43	0.52		2.23	176.19
Tourist Řoads		5.87	136.16	43.33	7.98	25.68	219.02
Developmental Roads			93.54	1,779.85	692.06	175.90	2,741.35
Unclassified Roads		3.37	23.74	17.48	1,527.27		1,571.86
TOTAL	135.38	993.84	12.886.84	7.628.19	5.208.72	237.04	27,090.01

TYPES OF ROAD SURFACES AS AT 30th JUNE, 1970

Scheduled according to Department's Divisions

Division	Natural Surface	Formed Only	Gravel	Primed Only	Primer Sealed	Sprayed Seal	Slurry Seal	Plant Mix	Cement Concrete	Total
Metropolitan Parramatta	0.75					16.48		347.76	47.83	412.82
County of Cumberland Country	1.83 13.50	2.18	2.18 24.82			253.46 154.06		222.79 61.35	34.10	514.36 255.91
Sub Total	15.33	2.18	27.00			407.52		284.14	34.10	770.27
Central Mountains County of Cumberland Country Sub Total	12.78 2.65 15.43		5.98 436.79 442.77	·		64.34 561.66 626.00	0.52	$ \begin{array}{r} 19.72 \\ 3.27 \\ \underline{} \\ 22.99 \\ \end{array} $	17.87	$ \begin{array}{r} 103.02 \\ 1,026.36 \\ \hline 1,129.38 \end{array} $
Illawarra County of Cumberland Country Sub Total			105.32	4.13		45.10 312.68 357.78	 	43.50 166.86 210.36	6.05 1.76 7.81	94.65 590.75 685.40
Hunter Valley Lower North Coast North Eastern Upper Northern North Western Central Western Central Northern Murray Darling Central Murray South Western South Coast Southern	$3.75 \\10.20 \\13.11 \\71.65 \\8.48 \\19.80 \\57.09 \\ \hline \\ 8.33 \\12.12 \\ \hline \\ 1.00 \\$	106.05 38.08 35.78 1,732.52 3,102.31 129.51 40.51 11.98 6.00	$149.72 \\ 275.12 \\ 384.56 \\ 855.40 \\ 870.92 \\ 1,125.45 \\ 888.40 \\ 284.82 \\ 752.48 \\ 580.30 \\ 326.64 \\ 559.29 \\$	$ \begin{array}{c}$	2.56 0.60 34.85 0.54 40.17 19.33 8.50 	$\begin{array}{c} 797.10\\ 503.58\\ 974.32\\ 867.88\\ 1,094.80\\ 1,385.97\\ 852.51\\ 602.37\\ 1,035.19\\ 1,736.48\\ 586.50\\ 848.25 \end{array}$	3.47 	108.25 0.20 0.75 0.28 4.20 0.23 14.68	10.06 	1,074.91 895.55 $1,387.63$ $1,859.74$ $2,017.35$ $2,570.12$ $3,570.69$ $4,008.83$ $1,936.27$ $2,373.61$ 937.12 $1,460.32$
TOTAL	237.04	5,208.72	7,628.19	55.14	134.35	12,692.73	4.62	993.84	135.38	27,090.01

41

INSTRUCTION IN PLANT MAINTENANCE AND OPERATION

The training of plant operators has been continued by six Foremen who are based at the Department's Workshop at Granville, and make instruction trips of up to three weeks' duration to Works Offices throughout the State.

At least two visits were made to each Works Office during the year, and instruction was given to a total of 835 potential and existing operators, although some operators were instructed more than once or on more than one type of machine. The standard of operation is improving and operators are staying longer with the Department.

Total cost of operating the Training School for the year was \$41,132.53.

A summary showing the number of employees trained on the various types of plant is given below:

Type of	Plant								Operators Instructed
Graders	••••					 ••••		• • • •	232
Rollers	• • • •		••••		••••	 			194
Tractors	(crawl	ler)				 			86
Tractors	(rubbe	er-tyred))			 			223
Loaders	(all ty	pes)		• • • •		 			109
Vehicles						 			26
Miscellar	neous					 	••••		115
Total		••••	••••		••••	 			985

RESEARCH AND MATERIALS TESTING

The Materials and Research Section, nominally composed of the Materials and Research Engineer, four other engineers, the Principal Scientific Officer and five clerical officers, experienced a succession of staff changes throughout the year.

The Materials and Research Laboratory, located at Milsons Point, was at the end of the year staffed by an Engineer-Manager, two supervising engineering analysts, five other engineering analysts, a metallurgist, thirty-five testing operators, five laboratory equipment officers, a testing laboratory assistant, eight clerical officers and twelve labourers. The metallurgist was appointed during the year, the number of engineering analysts diminished, and although the establishment of testing operators was increased by six to thirty-eight, the full complement was not maintained and about one third were new recruits. This was mainly due to the need to supply testing staff to Divisions and to the new expressway works commenced during the year.

The sixteen Divisional and nine Works Office Laboratories operating throughout the State were staffed by fourteen engineering analysts, ninety-seven testing operators and about fifty labourers.

Divisional and Field Testing

Three new laboratories were established during the year for the testing involved in expressway construction. These were located at St. Marys, at Campbelltown and adjacent to the Western Distributor in the City of Sydney.

The building at Mooney Mooney used previously as the laboratory for the construction of the Sydney-Newcastle Expressway was transported to Ballina and reconditioned to replace the existing makeshift arrangement.

A modern well-equipped laboratory was erected at Wagga Wagga to replace the existing inadequate facility. The new building is of contemporary design and is positioned to blend with the proposed new Divisional Office redevelopment.

Also, a new laboratory formed a major part of the extensions to the Divisional Office at Newcastle. The testing was transferred from the Waratah Laboratory, with the exception of the concrete curing and testing facilities, which are expected to remain until the completion of the new bridge over the North Arm of the Hunter River at Stockton.

The number of samples processed at Divisional and Works Office laboratories during the year was 50,959. This involved about 219,460 tests, the bulk of which were on soils and gravels, although other materials such as bitumen and concrete were tested also. Approximately 1,500 precast concrete culvert and bridge units were load tested and field control operations necessitated approximately 10,940 density-in-situ and 1,884 moisture content tests.

Several Divisions increased their use of the Benkelman beam as a non-destructive means of determining the relative stability of pavements, particularly those where surfacing with bituminous plant mix was being considered.

Materials and Research Laboratory

The renovation and extension of facilities at Milsons Point continued throughout the year and was mainly concerned with the reconstruction of the bitumen testing section, the installation of fire protection equipment and a new test room with controlled temperature and humidity conditions.

A part of the building formerly used by the Warringah Expressway Construction Organisation was allocated for the establishment of the Soil Mechanics Section and work was started on the alterations. Equipment purchased for this laboratory included a five ton triaxial machine for determining the shear strength of soils under the various loading conditions, three hydraulic oedometers for consolidation tests, direct shear apparatus and permeability measuring equipment. The field testing gear included a four-wheel drive vehicle, a power auger, a crank drill driver, vane shear apparatus and undisturbed sampling equipment.

Following the appointment of a metallurgist, a universal camera microscope was installed and arrangements were made to obtain other equipment needed to extend the scope of the steel section. Other major items of equipment obtained during the year included a linear model laboratory recorder for use with the microvescometer, an infra-red spectrophotometer and a vibrating wire strain gauge comparator.

The number of tests carried out at the Materials and Research Laboratory during the year was 53,350. The main materials processed were soils, gravels, aggregates, concrete, bitumen, bituminous mixes, paints, steel and rubber bearings, although there were many other products tested such as glass beads, adhesives, oils, water, bitumen additives and precoating materials, joint fillers and retro-flective materials for signs.

Field services provided included the installation, maintenance and calibration of equipment throughout the State, skid resistance tests, geological and seismic surveys, foundation exploration work, instrumentation for loading tests on structures and Benkelman beam deflection tests.

Research

As a result of the investigation into the performance of flexible pavements in the Western area of the State new interim standards were introduced for gravels to be surfaced with bitumen in arid areas. The new requirements allow for a progressive relaxation of Plasticity Indices and particle size distribution west of the 20 inch isohyet, that is in about a half of the State. The new criteria should be applied only where drainage conditions are good and should be modified where there are abnormal influences on moisture conditions (e.g. irrigation channels).

Research into the properties of fine crushed rock materials used for pavement construction in Sydney and nearby areas was continued with the object of developing test procedures to discriminate between materials expected to perform satisfactorily and those prone to deteriorate rapidly in service, and to devise ways of stabilising such materials. A related subject, that of predicting the performance of shales for use in pavements was being studied also and six Divisional Laboratories were equipped to do Methylene Blue Absorption testing to investigate the correlation with performance.

Experiments carried out verified the effect of a number of organic compounds on the compaction characteristics of soils and gravels and indicated the possibility of achieving a significant reduction in the amount of water required for compaction purposes. Further testing was arranged.

Investigations into the properties of binders, aggregates and mixes for special purposes (e.g. skid resistant surfacings) were continued, as well as various processes, such as the use of foamed bitumen for producing a surfacing material for lightly trafficked roads and for stabilising base materials.

The results of research into problems associated with the crystallisation of soluble salts under primer seals were documented and submitted with a number of other papers for presentation at the Fifth Biennial Conference of the Australian Road Research Board.

WIDENING OF METROPOLITAN MAIN ROADS

During the year, land was acquired for the widening of the following roads in the County of Cumberland:

Great Western Highway (State Highway No. 5) between Prospect and St. Marys in the Municipality of Blacktown and the City of Penrith.

Macquarie Street (Main Road No. 154), Windsor, in the Municipality of Windsor.

Lane Cove Road (Main Road No. 162), North Ryde, in the Municipality of Ryde and Ryde Road (Main Road No. 162), Pymble, in the Municipality of Ku-ring-gai.

Military Road (Main Road No. 164) and Spit Road (Main Road No. 164) from Neutral Bay to The Spit in the Municipalities of North Sydney and Mosman.

- Pittwater Road (Main Road No. 164), between Narrabeen and Mona Vale in the Shire of Warringah.
- Barrenjoey Road (Main Road No. 164), between Mona Vale and Newport Beach in the Shire of Warringah.

Botany Road (Main Road No. 170), between Bourke Street (Secondary Road No. 2008), Zetland and Harcourt Avenue, Rosebery in the Municipality of South Sydney.

King Georges Road (Main Road No. 315), Beverly Hills, in the Municipality of Hurstville.

Wentworth Avenue (Main Road No. 344), Pagewood, in the Municipality of Botany.

Approval was given during the year to the widening of 1.47 miles of proclaimed Main Roads or future Main Roads within the County of Cumberland.

Realignments gazetted totalled 7 miles of which the principal ones were:

Cowpasture Road (a future Main Road) between Hoxton Park Road (Main Road No. 515), and Mount Street, within the City of Liverpool and the Municipality of Fairfield (3.25 miles).

Campbelltown Road (Main Road No. 177), from 13.7 miles to 16.2 miles south of the Hume Highway (State Highway No. 2) near Appin, within the City of Campbelltown (2.5 miles).

WIDENING OF RURAL ROAD RESERVES

During the year, only a few miles of ordinary road widening was approved on classified rural roads. Due to the developments in modern road design standards, many miles of main roads were approved for reconstruction on altered alignment, as reported elsewhere in this report. The opportunity was taken in these cases to obtain an adequate road reserve width.

Another development resulting from increasing traffic speed and density is the need for greater width in road reserves. To accommodate future dual carriageways, where the desirable distance between centre lines is not less than 100 feet, land acquisitions commonly are of widths of 250 feet and 300 feet.

Protection for traffic is being provided to an increasing extent by limiting the number of direct vehicular accesses to main roads. Councils are assisting in this by zoning against ribbon development in their Town Planning Schemes and Interim Development Orders. Where it is reasonable to do so, the Department is taking action resulting in lengths of new construction being proclaimed "Motorways" with consequent restriction on the development of further accesses.

ADVANCE PLANNING

It is proposed that a further survey, designated the Australian Roads Survey 1969-74, be carried out to provide information relating to the effects of implementation of the Commonwealth Aid Roads Act 1969, and an assessment of road needs for a period beyond 30th June, 1974, when the current Act terminates. Planning for the survey was commenced by the National Association of Australian State Road Authorities in conjunction with the Commonwealth Bureau of Roads in early 1970, and the Department is taking part in this planning phase.

Action has continued during the year in connection with the statistical investigation of road construction costs, with the objective of compiling a road construction price index. Some further examination has been made of the economic evaluation of road improvements.

The Department's computing and data processing for technical purposes continued to be centred on the IBM 1130 computer located in the Department's Advance Planning Section. In July, 1969, additional core storage was provided for the computer in order to increase computing speed and simplify programming. This addition has permitted increased use of the computer without resort to second shift operation. An Automatic Drafting System was installed in May, 1970, and at the close of the year under review was being used for survey plan drafting.

In order to expedite the survey computations required in connection with urban expressway construction, a computer terminal was installed in the office on the site of the Western Distributor construction work in the City of Sydney.

Late in 1969 the technical systems analysis and programming staff was increased from two to four officers, to carry out the additional programming required for the automatic drafting system and for analysis of traffic counting methods.

Technical data processing throughout the year was principally in the fields of bridge design, traffic analysis, cadastral and photogrammetric survey, road inventory, road investigation and library records.

PLANNING FOR DEVELOPMENT OF THE MAIN ROADS SYSTEM IN SYDNEY, NEWCASTLE AND WOLLONGONG

Sydney

The review of the outline designs for new expressways and surface roads contained in the Main Roads Development Plan, was carried out on segments of the Castlereagh, Warringah, North Western, South Western and Southern Expressways and on the Eastern Distributor and Eastern Expressway. Location and preliminary design was commenced on the proposed route from St. Ives to Belrose.

Widening schemes were investigated for a number of roads that will ultimately be incorporated in the Main Roads system in the vicinity of Heathcote, Ryde, St. Ives, Mona Vale, Eastwood, Narrabeen and Blacktown. Scale models of parts of the Warringah and North Western Expressways and of the Western Distributor were prepared to assist in design and location studies.

Representations involving road proposals were made to the appropriate authorities for two metropolitan planning schemes exhibited during the year.

The volume of written enquiries regarding the effect of the Department's road proposals on property averaged 8,000 per month.

The Department was represented on interdepartmental committees dealing with Port Development, Environment, Airport access and the Eastern Suburbs Railway.

Newcastle

The Department is responsible for the fixing of the boundaries for about 113 miles of the Main Roads System in the Northumberland County District. Of this length approximately 46 miles are proposed new routes. Location has been determined and boundaries fixed over approximately 61 miles and investigation is proceeding for the remaining lengths.

Wollongong

Road location studies involving 13 miles of expressway were continued during the year. Revision of planning boundaries on a further five miles was commenced. As a result of increasing development it was decided that additional lengths of local roads should be added into the Main Roads system involving a net increase of 6.7 miles.

COUNTRY ROAD LOCATION, INVESTIGATION AND AERIAL PHOTOGRAPHY

Road location proposals which were developed or examined during the year involved 175 bridge sites and totalled 458 route miles. Of this length, location was finalised over 191 route miles, including 85 bridge sites. Rural expressway location was dominant during the year with location being fixed for the South Western Expressway between Menangle and Bargo and the Sydney-Newcastle Expressway between Somersby and Doyalson.

An aspect now receiving considerable attention is the finalisation of highway location around or through major towns and cities. In these instances town planning considerations, land use proposals, and future traffic desire lines, are factors requiring detailed consideration as well as consideration of the most suitable location from a road engineering view point. In some instances, such as at Orange, Parkes, Armidale, Gundagai and Bega, it has become apparent that the highway should pass around the urban area with specially constructed traffic access routes into it. In other instances where it has been found that only a small percentage of traffic would not be stopping in the city or town, the future through route will be a motorway through the urban area with grade separated intersections to provide access to the local street system.

The Zeiss Stereometrograph continues to give steady service, both in checking photogrammetry work carried out for the Department by outside bodies and in preparing contour plans for specific works. There has been development in its use for aerial triangulation and in this work a digital recorder is used to produce punch cards for computer calculation of the co-ordinates of photogrammetric control points. Some use was made during the year of the Point Transfer Device at the Department of Lands. Because the use of such an instrument is expected to grow, the Department intends to purchase one of its own. It is anticipated that there will be considerable use of the flat bed plotter now being installed in conjunction with the computer and the Stereometrograph.

The expenditure on photogrammetry from outside sources during the year was \$48,939, a fall of 27% on the previous year. This reduction has been due, at least in part, to further development and use by the Department of aerial triangulation, thus reducing the amount of work placed with outside bodies.

Aerial photography was undertaken over a route-mileage of 460 miles during the year. This photography was over areas previously photographed and was taken to give greater accuracy and larger scales and to bring existing photography up to date.

The Department's helicopter, besides being used in field examination of various proposals, also served to provide the facilities for undertaking aerial photography to up-date existing mosaics.

ROAD TRAFFIC SURVEYS

Permanent and Semi-Permanent Stations

At the beginning of the year, traffic was counted at 179 permanent and semi-permanent stations, including 15 ferry sites. This number increased to 201 during the year.

The installation and removal of counters at semi-permanent stations used in Divisional traffic volume surveys continued. Counters in Upper Northern, North Western, South Western, Central Western, Southern, Central Mountains and Central Murray Divisions were removed and re-installed in Central Northern, Murray, Darling, Illawarra, Hunter Valley, North Eastern, Lower North Coast and South Coast Divisions.

Following the opening of the Southern Cross Drive in October, 1969, a permanent counting station to record hourly volumes by directions was established near the Gardeners Road overpass.

Divisional Traffic Volume Surveys

Detailed traffic volume surveys, including vehicle classification counts at major intersections, were completed in the Upper Northern, North Western, South Western, Central Western, Central Mountains and Central Murray Divisions.

Research on Traffic Counts

The Department is carrying out research on traffic counting techniques to improve the accuracy of the methods used in estimating annual average daily traffic volumes from traffic counts of short duration. To this end, computer programmes have been and are being developed to study the variations in traffic volume patterns at permanent and semi-permanent counting stations.

Special Purpose Traffic Surveys

Origin and Destination surveys were carried out at Gosford and Wyong to assist investigations for the planned road systems in these areas.

A large number of traffic volume counts for special purposes were undertaken to record hourly as well as daily traffic volumes in various parts of County of Cumberland.

Publication of Data

Data collected from the 1967 Divisional traffic volume surveys in the Hunter Valley, Illawarra, Lower North Coast, North Eastern and South Coast Divisions were published in five separate volumes.

Part of the data collected from the 1968 County of Cumberland traffic volume survey was published in "Traffic Volumes and Supplementary Data, 1968, County of Cumberland Vol. 2". The remainder of the data showing traffic flow maps and schedules of traffic volumes is expected to be available in August, 1970.

Publication of the traffic volume data collected from the seven Divisions surveyed in 1969 is being prepared.

Annual Average Daily Traffic Volumes

Annual Average Daily Traffic Volumes obtained from permanent and semi-permanent counting stations for the calendar year 1969 are listed below. The corresponding volumes for 1968 and the percentage changes in volume, where available, are also shown.

Local Government Area	Location	Annual Daily Tra	Percentage Change	
Alea		1968	1969	
Sydney-Newcastle Gosford Hornsby	Expressway Hawkesbury River—Calga Tollway south of Mt. White Berowra—Hawkesbury River Tollway	11,290	12,950 12,070	+ 10
North-South Arteri Wollongong	al Road (West Wollongong Section) Gipps Street Overbridge	16.820	18,690	+ 11
Bradfield Highway Sydney	Sydney Harbour Bridge	116,200	125,180	+ 8
Rockdale Sutherland Sutherland Wollongong Kiama Eurobadalla Mumbulla	1 — Prince's Highway Tempe—Bridge over Cooks River Sylvania—Bridge over Georges River Loftus—Railway Overbridge North of Main Road No. 513 (Mount Ousley Road) South of Smith Street 1 mile south of Post Office Batemans Bay—Bridge over Clyde River 1 mile north of State Highway No. 4 (Snowy Mountains Highway)	49,960 48,450 19,570 10,890 20,990 5,100 2,630 960	51,030 50,180 21,640 11,560 21,770 5,450 2,760 1,000	+ 2 + 4 + 11 + 6 + 7 + 5 + 4 + 6
Imlay Imlay	Eden—2 miles north of Post Office Eden—At old Road Creek	1,080	1,150 490	+ 6
State Highway No Ashfield Bankstown	. 2—Hume Highway East of Bruce Street Lansdowne—East of State Highway No. 13 (Woodville	20,440	23,280	+ 14
Liverpool Mittagong Mulwaree	Road) Cross Roads—East of York Street Mittagong—2 miles north east of Post Office Goulburn—4 miles east of Post Office	32,980 26.220 6,270	35,200 29,760 6,780 5,840	+ 7 + 14 + 8
Mulwaree Goodradigbee Holbrook Albury	Yarra—West of State Highway No. 3 (Federal Highway) Yass—4 miles west of Post Office Holbrook—2 miles north of Post Office At Murray River Bridge	2,780 3,860 1,820	3.020 4,220 2,240 17,830	+ 9 + 9 + 9 + 23
State Highway No Mulwaree	. 3— <i>Federal Highway</i> Yarra—South of State Highway No. 2 (Hume Highway)	2,460	2,780	+ 13
State Highway No. Mumbulla Snowy River Snowy River	4—Snowy Mountains Highway West of State Highway No. 1 (Prince's Highway) East of Main Road No. 286 (Cooma—Berridale Road) Adaminaby—0.8 miles west of Rosedale Road	570 1,920 630	720 1,880 640	$\frac{+26}{+2}$

Local Government Area	Location		Average ffic Volume	Percentage Change
Alea		1968	1969	
State Highway No. Ashfield Parramatta Blacktown Penrith Turon	5-Great Western Highway East of Dalhousie Street Clyde-Railway Level Crossing Wallgrove-Bridge over Eastern Creek Bridge over Nepean River West of Blaxland Shire Boundary	37.920 46.200 21.430 14.260 2,770	38,990 47,270 23,730 15,880 3,020	$ \begin{array}{r} + & 3 \\ + & 2 \\ + & 11 \\ + & 11 \\ + & 9 \end{array} $
State Highway No. Waugoola Weddin	6—Mid Western Highway Cowra—Bridge over Waugoola Creek Marsden—East of State Highway No. 17 (Newell Highway)	1,700	1,670 290	- 2 + 7
Bland Hay	Wyalong—East of Trunk Road No. 57 (Temora Road) Hay—20 miles east of Post Office	1,240 480	1,250 540	+ 1 + 13
State Highway No. Canobolas Canobolas Talbragar Darling	 7—Mitchell Highway Orange—1.5 miles east of Main Road No. 245 (Piesle Street) Orange—3 miles north of Post Office Dubbo—1.2 miles east of East Dubbo level crossing Bourke—5 miles south of Post Office 	3,150 1,640 1,600 150	3,520 1,660 2,380 220	+ 12 + 1 + 49 + 47
Talbragar	Dubbo—1.5 miles west of Post Office	150	2,000	
Cobar State Highway No.	East of Trunk Road No. 61 (Orange—Cobar Road) 9—New England Highway	310	360	+ 16
Patrick Plains Peel Cockburn	2.9 miles east of Main Road No. 128 (Singleton- Gostwyck Road)	3,430 1,550	3.840 1,740	+ 12 + 5
Severn Tenterfield	(Nemingha—Scone Road) Glen Innes—South of Glen Innes Municipal Boundary Tenterfield—1.5 miles south of Post Office	3,090 2,260	3,400 2,570 1,330	+ 10 + 14
State Highway No. Hornsby	10—Pacific Highway Waitara—North of State Highway No. 13 (Pennant Hills Road)	26,470	27,070	+ 2
Hornsby Hornsby Gosford	Berowra—North of Tollway Gates Brooklyn—Bridge over Hawkesbury River Mount White Swansea—2 miles south of bridge over entrance to Lake	13,470 1,870	4,360 15,820 2,100	+ 17 + 12
Lake Macquarie Newcastle Port Stephens Manning Hactings	Macquarie Charlestown—South of Smart Street Hexham—Bridge over Hunter River Karuah—Bridge over Karuah River Nabiac—Bridge over Woolomba River Bridge over Hastings River	7,960 31,390 10,190 3,370 2,700 2,320	8,690 32,550 11,360 3,700 3,000 2,600	$ \begin{array}{c c} + & 9 \\ + & 4 \\ + & 11 \\ + & 10 \\ + & 11 \\ + & 12 \end{array} $
Ulmarra Nambucca Maclean Tintenbar	South Grafton—South of Developmental Road No. 1253 (Grafton By-Pass Road) Macksvile—1 mile north of Scotts Road Harwood—Bridge over Clarence River Ballina—South of State Highway No. 16 (Bruxner	2,080 2,280	2,320 2,910 2,570	+ 12 + 13
Tweed	Highway) Boyds Point—South of Drydock Road	1,960 8,680	2,360 9,620	+ 20 + 11
State Highway No. Hastings Peel	11—Oxley Highway Wauchope—1.6 miles west of Beechwood Road Tamworth—5 miles west of Main Road No. 130 (Tam-	770	780	+ 1
State Highway No. Severn	Worth—Werris Creek Road) 12—Gwydir Highway Gibraltar Range Tick Gate	1,270 350	1,430 370	+ 13 + 6
Severn Boolooroo Boomi	Glen Innes, at Turracabad Creek Bridge Moree—2 miles east of Post Office Moree—2.5 miles west of Post Office	910	850 1,000 510	+ 10
	13—Woodville Road, Church Street and Pennant Hills Road			
Fairfield	Villawood—North of State Highway No. 2 (Hume Highway)	23,060	23,460	+ 2
State Highway No. Kyeamba Hay Hay	14—Sturt Highway 0.3 miles east of Main Road No. 384 (Alfred Town— Kyeamba Road) Hay at Bungah Creek Bridge Hay—East of Boon Street	1,050 840	1,140 880 470	$\begin{array}{c} + 9 \\ + 5 \end{array}$
Wentworth	Buronga—12 miles east of State Highway No. 22 (Silver City Highway)	790	470 960	+ 22
State Highway No. Goodradigbee	15—Barton Highway Yass—South of State Highway No. 2 (Hume Highway)	1,820	1,840	+ 1
Tintenbar	 16—Bruxner Highway Ballina—2 miles west of State Highway No. 10 (Pacific Highway) 	1,770	1,790	+ 1
Gundurimba Tenterfield Tenterfield	McKees Hill Post Office	1.730 220	1,840 220 520	$\begin{vmatrix} + & 1 \\ + & 6 \\ 0 \end{vmatrix}$

Local Government Area	Location		Average fic Volume	Percentage Change	
Alea		1968	1969		
State Highway No. Boolooroo Talbragar Goobang Narrandera Berrigan	17—Newell Highway Camurra—Railway level crossing No. 209 Dubbo—2 miles north of Post Office 2.1 miles north of Post Office 2 miles east of Post Office Finley—2 miles south of Post Office	590 2,680 1,380 1,040 1,210	700 2,960 1,360 1,120 1,290	+ 19 + 10 - 1 + 8 + 7	
State Highway No. Coonamble	18—Castlereagh Highway 2 miles south of Post Office	560	570	+ 2	
State Highway No. Monaro Bombala Monaro	19—Monaro Highway Bunyan—Bridge over Cooma Creek 0.5 miles north of Iris Street Nimmitabel—0.8 miles south of State Highway No. 4 (Snowy Mountains Highway)	1,330 480 730	1,340 440 770	+ 1 - 8 + 5	
State Highway No Hume Deniliquin	. 20— <i>Riverina Highway</i> Albury—4 miles west of Post Office 1 mile east of Main Road No. 552 (Deniliquin—Jeril- derie Road)	870 920	930 970	+ 7 + 5	
State Highway No. Murray Windouran	. 21—Cobb Highway Deniliquin—2 miles south of Post Office Pretty Pine, north of Main Road No. 296 (Moulamein Road)	830	830 320	0	
Hay State Highway No.	Hay—2 miles north of Post Office	200	160		
Broken Hill State Highway No. Tenterfield	 8 miles south of Post Office 24—Mount Lindesay Highway 2.4 miles north of State Highway No. 9 (New England Highway) 	200	220 220	+ 10	
State Highway No Shellharbour	. 25—Illawarra Highway Macquarie Pass	1,350	1,480	+ 10	
State Highway No. Gosord	26—Calga—Peats Ridge—Ourimbah Peats Ridge—At Post Office	8,420	9,920	+ 18	
<i>Trunk Road No.</i> 5 Eurobodalla	51—Batemans Bay—Queanbeyan Nelligen—Bridge over Clyde River	970	930	- 4	
Mulwaree	4—Goulburn—Ilford Goulburn—2 miles north of Post Office		740		
Cudgegong	5—Marrangaroo—Mullaley Mudgee—0.5 miles south of railway level crossing	1,150	1,230	+ 7	
<i>Trunk Road No. 5</i> Jemalong	6—Forbes—Yass Forbes—1 mile east of Main Road No. 377 (Orange Road)		1,400		
<i>Frunk Road No.</i> 5 Lachlan	7—Ivanhoe—Swan Hill Condobolin at Nerathong Creek Bridge		290		
<i>Frunk Road No.</i> 5 Urana	i9—Jerilderie—Collingullie Urana—9 miles west of Post Office		200		
<i>Frunk Road No</i> . 6 Canobolas Goobang	1—Orange—Cobar Orange—At Canobolas Shire Boundary Parkes—At Billabong Creek Bridge	1,490	1,550 1,120	+ 4	
Cockburn	3—Tamworth—Yetman Tamworth—4 miles north of Post Office		1,410		
Trunk Road No. 6 Bangalow	5—Ewingsdale—Lismore 0.3 miles west of State Highway No. 10 (Pacific High- way)	1,310	1,400	+ 7	
<i>Trunk Road No.</i> 7 Murrurundi	2—Willowtree—Narrabri Willowtree—0.5 miles north of State Highway No. 9 (New England Highway)		1,360		
<i>Frunk Road No.</i> Ulmarra	74—Armidale—South Grafton South Grafton—South of Main Road No. 151 (Grafton —Coffs Harbour Road)	450	460	+ 2	
<i>Frunk Road No. 7</i> Fernmoung	 6—Raleigh—Ebor 3.8 miles west of State Highway No. 10 (Pacific Highway) 	1,270	1,390	+ 9	
<i>Frunk Road No.</i> 7 Mitchell	8—Olympic Way Wagga Wagga—1 mile north of Main Road No. 240 (Coolamon Road)	1,640	1,660	+ 1	
Trunk Road No. 7 Mulwaree	9—Goulburn—Doughboy Goulburn—3 miles south of Post Office		750		
Frunk Road No. 8 Wade	0— <i>Narrandera—Mossgiel</i> Widgelli, west of level crossing		1,180		

i.

Local Government Location		ual Average Fraffic Volume	Percentage Change	
Area	1968	1969		
Trunk Road No. 83—Grafton—Casino—Woodenbong Grafton Bridge over Clarence River Copmanhurst Koolkhan—0.3 miles south of Main Rod Kuestle Koolkhan—Woodenbong Road)	oad No. 150 	0 940	+ 3 + 16	
Kyogle Kyogle—0.5 miles south of Highfield Road Trunk Road No. 84—Bowning—Temora	1,40	0 1,390		
Goodradigbee Bowning—0.5 miles north of State Hig (Hume Highway)	hway No. 2	1,050		
Trunk Road No 85—Gilmore—Jingellic Tumut Batlow—4 miles north of Post Office		590		
Main Road No. 104—East Maitland—Raymond Terrace Port Stephens Raymond Terrace—Ferry over Hunter Riv	er 26	9 267	- 1	
Main Road No. 105—Scone—Nemingha Peel Tamworth—1 mile east of State Highway England Highway)	No. 9 (New	710		
Main Road No. 108—Adamstown—Newcastle_Stockton_N Newcastle Broadmeadow_Southwest of Samdon Stree Newcastle Stockton_Ferry over Hunter River	t 28,03		+ 1 + 1	
Main Road No. 147—Woodburn—Lismore Woodburn Woodburn—Ferry over Richmond River		7 202	+ 3	
Main Road No. 149—Casino—Coraki—Buckendoon Woodburn Coraki—Ferry over Richmond River	15	8 161	+ 2	
Main Road No. 152—Lawrence—Maclean—Yamba Maclean Bluff Point—Ferry over Clarence River		6 120	+ 25	
Main Road No. 162—Mona Vale Road Ku-ring-gai Pymble—North of Orana Avenue Ryde North Ryde—De Burghs Bridge over Lan	e Cove River 20,83		+ 1 + 14	
Main Road No. 164—Spit Road Manly The Spit—Bridge over Middle Harbour	44,11	0 46,290	+ 5	
Main Road No. 165—Commercial Road—Victoria Road Leichhardt Glebe Island—Bridge over Johnstons Bay Drummoyne Gladesville—Bridge over Parramatta River	43,56		$\begin{array}{c} + 5 \\ + 3 \end{array}$	
Main Road No. 166—Huntleys Point—Lane Cove Hunters Hill Bridge over Tarban Creek Lane Cove Figtree Bridge over Lane Cove River			+ 9 + 7	
Main Road No. 167—Canterbury Road—Newbridge Road Bankstown Milperra—Bridge over Georges River Canterbury Wiley Park—East of Canarys Road			+ 12 - 1	
Main Road No. 168—Forest Road Sutherland Lugarno—Ferry over Georges River		8 1,539	+ 5	
Main Road No. 172—Oxford Street Woollahra Woollahra—West of Ocean Street		0 37,840	+ 2	
Main Road No. 177—Appin Road Campbelltown Campbelltown—0.5 miles north of Post Of	fice	0 9,090	+ 1	
Main Road No. 179—Menangle Road Wollondilly Maldon—Railway level crossing		0 1,490	+ 30	
Main Road No. 181—McGraths Hill—Singleton Baulkham Hills Webbs Creek—Ferry over Hawkesbury Ri	ver 15	1 140	- 7	
Main Road No. 182—Windsor—Sackville Reach Baulkham Hills Sackville Reach—Ferry over Hawkesbury	River 21	4 223	+ 4	
Main Road No. 184—Windsor Road Blue Mountains Bell—East of Main Road No. 516 (Mu Road)	ount Victoria	2,380		
Main Road No. 186—Mount Keira Road Wollongong West Wollongong—East of Robsons Road	10,93	0 9,975	9	
Main Road No. 194—General Holmes DriveBotany1.3 miles east of Bridge over Cooks River		0 56,510	+ 8	
Main Road No. 199—Rocky Point Road—Taren Point Road Sutherland Captain Cook Bridge over Georges River		0 37,070	+ 6	
Main Road No. 200—Concord Road Ryde Uhrs Point—Bridge over Parramatta River		0 38,920	+ 3	
Main Road No. 206—Dubbo—Dunnedoo Talbragar Dubbo—2 miles east of Dubbo		430		
Main Road No. 211—Wagga Wagga—Holbrook Kyeamba Wagga Wagga—3 miles south of Post Offic	e	500		

Local Government Area	Location		Average ffic Volume	Percentage Change	
Alta		1968	1969		
	217—Birmingham Gardens—Wyong ie Boolaroo—North of First Street	11,940	12,460	+ 4	
Main Road No. Cessnock	220—Glendon Brook—Cessnock—Brunkerville—Toronto Brunkerville—Post Office	2,460	2,730	+ 11	
Main Road No. 2 Newcastle	23—West Wallsend—Kurri Kurri New Lambton Heights—North of Ridgeway Road	16,110	17,560	+ 9	
Main Road No. 2 Baulkham Hills	225—Wisemans Ferry—Spencer—Central Mangrove Wisemans Ferry—Ferry over Hawkesbury River	369	376	+ 2	
Main Road No. 2 Coolamon	240—Wagga Wagga—Ardlethan 5 miles north of Main Road No. 243 Wade Street		660		
Main Road No. 2 Oberon	253—Hartley—Bathurst 1 mile north of Scotia Avenue		4,950		
Main Road No. 2 Mulwaree	56—Goulburn—Oberon Kenmore—0.5 miles north of Post Office		480		
Main Road No. 2 Bowral	60—Moss Vale—Mittagong Bowral—South of Kangaloon Road		4,840		
Main Road No. 2 Wingecarribee	261Moss ValeBomaderry Fitzroy FallsNorth of Post Office	560	590	+ 5	
Main Road No. 2 Snowy River	286—Mount Kosciusko Road Jindabyne—10 miles northwest of Post Office	790	730	- 8	
Main Road No. 2 Wollongong	95—Five Islands Road Cringilla—East of Main Road No. 568 (Springhill Road)	29,770	33,160	+ 11	
Main Road No. 2 Windouran	296— <i>Pretty Pine—Moulamein</i> Pretty Pine—West of State Highway No. 21 (Cobb Highway)		240		
Main Road No. 3 Parramatta	09—Aston Street Camellia—South of River Road	16,900	18,810	+ 11	
Main Road No. 3 Warringah	28—Warringah Road Forestville—West of Melwood Avenue	37,150	40,490	+ 9	
Main Road No. 3 Hornsby	32—Berowra Waters Road Berowra Waters—Ferry over Berowra Creek	195	206	+ 6	
Main Road No. 3 Gosford	336—Gosford—The Entrance 0.2 miles east of Russell Street	11,740	13,200	+ 12	
Main Road No. 3 Manilla	57—Boggabri—Manilla 2 miles west of Post Office		220		
Main Road No. 3 Ku-ring-gai	66—Bobbin Head Road North Turramurra—South of Milton Street	4,070	4,090	+ 1	
Main Road No. 3 Hume	69—Wymah Ferry Road Wymah—Ferry over Murray River	9	10	+ 11	
Main Road No. 3 Hornsby	• B73Epping Road Epping-Bridge over Terry's Creek	20,720	22,650	+ 9	
Main Road No. 3 Severn	382—Bonshaw—Glen Innes Glen Innes—3 miles north of Post Office		210		
Main Road No. 3 Narrandera	87—Temora—Yenda Barellan—1 mile west of Post Office		340		
Main Road No. 5 Patrick Plains	503—Wilberforce—Singleton Howes Valley—3.5 miles north of Post Office	1,070	990	7	
Parramatta	32—Silverwater Road Silverwater—Bridge over Parramatta River	25,530	26,960	+ 6	
Macleay	556—Gladstone—Smithtown—Seven Oaks Smithtown—Ferry over Macleay River	417	447	+ 7	
Kiama	71—Gerringong—Gerroa Gerringong—0.5 miles south of Post Office	1,450	1,570	+ 8	
Main Road No. 5 Wollongong	81—North Wollongong—Coniston North of Main Road No. 582 (Crown Street)	11,320	11,070	_ 2	
Main Road No. 5 Wollongong	582—Crown Street West of Main Road No. 581 (Corrimal Street)	15,810	12,140	_ 23	
Other Than Main Concord Sydney Wakool Ulmarra Hornsby	Roads Mortlake—Ferry over Parramatta River Pyrmont—Bridge over Darling Harbour Speewa—Ferry over Murray River Ulmarra—Ferry over Clarence River Brooklyn—Brooklyn Road, east of State Highway No. 10 (Pacific Highway)	229 51,290 52 36	253 47,890 51 38 1,140	+ 10 - 7 - 2 + 6	

EMPLOYMENT AND INDUSTRIAL

The number of wages employees (including contractors' employees and contract lorry owner-drivers) engaged on maintenance and construction of Main Roads and construction of Developmental Roads by the Department of Main Roads and Councils at 30th June, 1970, was 11,651, compared with 11;428 at 30th June, 1969. In addition, there were 3,324 salaried officers of the Department. The following table provides a detailed analysis of these figures.

Departmental Employees				
Salaried Officers		 Male	2,801	
		Female	523	2 2 2 4
Wages Employees	••••	 Male	6,067	3,324
		Female	51	
				6,118
Total	••••			9,442
Departmental Contracts				
Contractors' employees engaged contracts under direct supervi by Department (other than h age and minor contracts)	ision		255	
Haulage Contracts — Trucks			936	
Minor Contracts — Plant, etc.			527	
				1,718
Council Employees engaged on Subsic Roadworks	lised			2,863
Council Owned and Contract Trucks eng on Subsidised Roadworks	aged			952
Total	••••			14,975

No major industrial dispute occurred during the year.

OFFICE PREMISES AND HOUSING FOR STAFF

Re-modelling and renovation was nearing completion of a recently acquired Pitt Street property adjoining the Head Office building and two floors of the building were occupied by Head Office staff. As a result of the planned Western Distributor, a building was acquired in Day Street, Sydney, and is being used temporarily for the garaging of Departmental vehicles from Head Office.

Extensive alterations and additions to the Divisional Office in Newcastle have been completed. Additions to the Divisional Office in Grafton were nearing completion and renovations and alterations to the existing building were commenced.

Sites have been acquired in Glen Innes and Lithgow for the erection of new Divisional Office buildings and the preparation of preliminary design proposals was commenced.

Construction of a Testing Laboratory at the Divisional Office in Wagga Wagga was completed. Plans were prepared for the extension of the Laboratory at Tamworth Divisional Office and for alterations to the Metropolitan Divisional Office.

Two residences to provide accommodation for staff were completed at Lithgow, as well as a Divisional Engineer's residence at Bega.

Works Offices were completed at Coonabarabran and Wilcannia. A temporary Works Office was erected at Murwillumbah and a new permanent Office Block and Main Store were erected at Bowenfels Works Office. A contract was also let for the construction of a new Workshop at Windsor Works Office.

A Works Office was established at Cooma in buildings on a property purchased from the Snowy Mountains Authority to replace the former Works Offices at Jindabyne and Nimmitabel.

Construction has commenced on the erection of a new Works Office at Thornleigh and plans are being prepared for a Works Office at Yennora. Plans are also nearing finalisation for the erection of a new Works Office at Singleton.

SYDNEY HARBOUR BRIDGE

Financial Position

The toll income of the bridge exceeded the previous year's level by \$264,645. Expenditure at \$3,720,208 was \$178,693 more than the expenditure for 1968-69. The increased expenditure was mainly due to rises in toll collection expenses, interest charges and the provisions for repayment of loan moneys borrowed for construction of the first section of the Warringah Expressway from the Sydney Harbour Bridge to Miller Street, Cammeray. \$149,994 was appropriated from the Sydney Harbour Bridge Account for construction of the Warringah Expressway approach to the Sydney Harbour Bridge and \$73,768 was appropriated for the Cahill Expressway.

The sources of income and the main items of expenditure are shown in the diagrams below.

EXPENDITURE INCOME \$5,004,964 \$3,720.208 MAINTENANCI 15.5% ROAD TOLLS 90.9% LOAN CHARGES 59.6% DTHER 3.8% PROVISION OF TRAFFIC FACILITIES 4.0% COLLECTING ROAD TOLLS 17.1% RAILWAY TOLLS OTHER 5·8% 2.8% OMNIBUS TOLLS 0.5%

Traffic

The road vehicle crossings of the bridge during 1969-70 totalled 46,955,000 including 583,000 crossings by omnibuses. The approximate number of rail and omnibus passengers and the revenue received from the users of each class of transport were as follows:

Particulars	Vehicles	Passengers	Collections \$	Percentage of Total Toll Collection %
Road vehicles (excluding omnibus and exempt vehicles) Railway passengers Omnibus passengers	45,460,808	26,228,422 12,033,025	4,549,136 289,630 26,851	93.50 5.95 0.55

The annual average daily traffic volume on the Sydney Harbour Bridge increased by 8% over the volume for the previous year, to 125,180 vehicles per day. The highest volume recorded on any one day was 158,860 vehicles on 26th March, 1970, the eve of the Easter Public Holidays.

Peak-hour flows in the direction of major flow remained much the same as those recorded during 1968-69. In the morning peak periods, the highest flow recorded in the six southbound lanes was 11,050 vehicles per hour on Wednesday, 4th March, 1970. In the evening peak periods, the highest flow recorded in the six northbound lanes was 9,840 vehicles per hour on Tuesday, 5th May, 1970. The average peak-hour flows in the direction of major flow were 10,750 vehicles per hour in the morning peak periods and 9,120 for the evening peak.

Average peak-hour flows in the direction of minor flow increased in the morning peak periods by 13.6% to 2,910 vehicles per hour. The highest flow recorded in the morning peak periods in the two northbound traffic lanes was 3,690 vehicles per hour on 7th May, 1970, and in the evening peak periods on the two southbound traffic lanes was 3,650 vehicles per hour on 27th February, 1970.

During the year, 3,619 vehicles were removed from the Sydney Harbour Bridge, the Cahill Expressway and the Warringah Expressway by the Department's tow truck organization. This was an increase of 687 vehicles above the number removed in the previous year.

Details of breakdowns are shown in the following table:

Breakdowns on Sydney Harbour Bridge, Cahill Expressway and Warringah Expressway between 6.30 a.m. and 6.30 p.m. 1st July, 1969, to 30th June, 1970

Cause of Breakdown	Week Days	Weekends and Public Holidays	Total	Percentage
Lack of Petrol Mechanical Breakdown Flat Tyres Accidents Abandoned	$1,065 \\ 1,501 \\ 349 \\ 158 \\ 11$	183 243 89 19 2	1,247 1,744 438 177 13	35 48 12 5 0
· · · ·	3,084	536	3,619	100

Maintenance

The fourth repainting of the Sydney Harbour Bridge was continued, a total of approximately 564,000 square yards of steelwork or approximately 97 per cent being completed by the end of the year.

An area of approximately 68,000 square yards of steelwork was painted during the year, all of which was two-coat work. A large amount of patch painting was also carried out.

Maintenance and inspection of steelwork, cranes, lifts, etc., was continued, with rivet testing on the eastern truss of the main arch.

In addition to the normal maintenance of lighting, floodlighting, toll barrier electrical installations, etc., electrical circuits were relocated and power for temporary street lighting was provided for construction work on the first stage of the Western Distributor.

REGULATION OF WEIGHTS OF LOADS ON MAIN ROADS

Ordinance No. 30C of the Local Government Act, 1919, prescribes limits for the gross loads and individual axle loads imposed on road pavements and structures and on ferry vessels by vehicles using Main Roads.

The following statement summarises action taken during the year in the administration of the Ordinance. Figures for the year ended 30th June, 1969, are also shown.

	1968-69	1969-70
Vehicles stopped for checking	44,847	43,729
Vehicles reported as overloaded	7,491	7,960
Drivers prosecuted for failure to obey lawful direction	78	89
Notices of overloading issued (Notices of overloading represent		
the number of cases in which warning notices only are sent to		
both the owner and driver but no prosecution action taken)	732	834
Prosecutions authorised	6,751	6,242
Number of cases heard by Courts	6,954	7,772
Number of Convictions recorded	5,202	5,613
Total penalties imposed	\$243,444.40	\$251,700.17
Maximum Penalty (\$400)	1	1
Average penalty, including all costs required to be met by the		
defendant per case	\$46.80	\$44.48

Of the total number of vehicles stopped, 7,960, or approximately 18.2 per cent were found to be loaded in excess of Ordinance limits.

The following table summarises the extent of overloading found in these 7,960 vehicles:

Percentage Overloaded	0-10 Cwt.	10-20 Cwt.	Over 20 Cwt.	Over 40 Cwt.	Over 60 Cwt.	Total
Number of vehicles reported— (i) Vehicles travelling Interstate (ii) Vehicles travelling within the State	603 928	797 1,791	732 1,664	229 630	171 415	2,532 5,428
	1,531	2,588	2,396	859	586	7,960

The installation of new plant for heavy industry and the movement of large plant items resulted in many problems and this led to a continuing increase in applications for permits to transport non-divisible loads with axle and gross weights in excess of Ordinance limits.

Permits to exceed Ordinance limits are issued only for non-divisible loads and then only if transportation by rail or sea is not practicable. These permits are divided into two categories:

"A" Class or Special Permits, which are issued as a result of an individual application for a single journey on a specified date. During the year, 5,441 such permits were issued involving the movement of 291,353 tons, compared with the issue of 5,271 permits involving 256,785 tons in the previous year.

Included in the permits issued this year were 125 loads in excess of 75 tons each, the heaviest of these being the transportation of a 207 ton boiler, gross load 257 tons; this boiler travelled from Garden Island to Cooks River, then, after rail movement, from Ravensworth to Liddell.

"B" Class or Period Permits, which are issued for a specified period varying from three to twelve months. Such permits provide for lesser weights than those allowed by Special Permits, and the majority apply to travel by mobile cranes. These permits are issued for travel within a restricted area, generally within 30 to 50 miles of a given point. The gross tonnage carried under such permits exceeded that carried under Special Permits.

Motor vehicles used for the transport of these loads must be fitted with axle arrangements especially designed to spread the weight of the load. Other factors taken into consideration are the route to be traversed and the ability of structures to support the weight of the load.

The Department continued to supply information regarding application of the Ordinance limits to particular types of vehicles, and many vehicle operators, transport interests, manufacturers and importers availed themselves of this service during the year. Numerous copies of a "Guide to Load Limits under Ordinance No. 30C" were distributed, while assessments of the carrying capacity of vehicles were issued on the application by owners.

NATIONAL ASSOCIATION OF AUSTRALIAN STATE ROAD AUTHORITIES

The National Association of Australian State Road Authorities is an organization of the Central Road Authorities in the six States together with the Commonwealth Department of Works which is the road constructing authority for the Commonwealth Territories.

The Association, which was established in 1934, serves to provide a means of pooling technical and administrative experiences; of inaugurating, co-ordinating and rationalizing road research projects; of harmonizing and co-ordinating standards; of ascertaining and publishing the facts about Australia's principal roads and their financing; and of developing an informed outlook on Australia's road problems.

The technical work of the Association is developed by the Principal Technical Committee, comprising the Chief Engineers of the various Authorities. The Principal Technical Committee is assisted by specialist committees of officers from the State Road Authorities experienced in Materials Research, Traffic Engineering, Bridge Engineering, Advance Planning, Plant and Equipment, Computers, Geometric Road Design, and Construction and Maintenance Practices.

A Secretarial and Accounts Committee comprising the Secretaries and Accountants of the various State Road Authorities and the Commonwealth Department of Works assists the Association in administrative and management practices.

The Engineer-Secretary, assisted by a small staff carries out the secretarial work of the Association. The Secretariat, for the time being, is located in the offices of the Department of Main Roads, New South Wales and each of the Member Authorities contributes toward the cost of its operation.

Three meetings of the Association were held during the year. The Fortieth Meeting was held in November, 1969, at Perth in conjunction with a meeting of State Ministers concerned with the Construction of Highways and the Thirty-Ninth and Forty-First meetings were held in Melbourne.

Meetings of the Association were attended by the Heads of the State Road Authorities of the six States and the Head of the Commonwealth Department of Works. The Secretary of the Commonwealth Department of Shipping and Transport and the Chairman of the Commonwealth Bureau of Roads also attended sessions of these meetings.

There were nine specialist committee meetings held during the year and two meetings of the Principal Technical Committee at various capital cities. Representatives from the Commonwealth Department of Shipping and Transport, the Commonwealth Bureau of Roads, the Commonwealth Scientific and Industrial Research Organization also attended a number of these meetings. The Association at its meetings dealt with matters which had come forward during the year from its Principal Technical Committee and arranged for further action to be taken by the Specialist Committees on additional aspects of road and bridge works and planning. Important matters considered included the reference of items to the Standards Association of Australia for the preparation or revision of standards; the conduct of further study courses for African and Asian Engineers; the planning and conduct of the Fourth Australian Roads Survey; and the progress made with the preparation of the following publications:

"Glossary of Computer Terms"

"Guide to Traffic Engineering Practice"-Revised Edition

"Policy for Geometric Design for Rural Roads" — Revised Edition

"Highway Bridge Design Specification" - Revised Edition

"Manual on Maintenance of Bituminous Surfacing"

During the year the following technical manuals and bulletins were published:

"Principles and Practice of Bituminous Surfacing - Vol. II - Plant Mix"

"Specification for Performance Requirements of Mechanical Sprayers of Bituminous Materials" — Revised Edition

"Recommended Acceptance Requirements for Precast Pretensioned Prestressed Concrete Bridge Units" — Revised Edition

"Duties and Responsibilities of Superintending Officers - Vol. II - Bridgeworks"

"Technical Road Notes No. 13"

"Guide to the Publications and Policies of NAASRA" - 1970 Edition

Amendments to 1968 edition of "Vehicle Limits for Road Safety and Road Protection", current as at 1st January, 1970.

The Department of Main Roads, New South Wales was host to the Association's Advance Planning Committee in February, 1970.

AUSTRALIAN ROAD RESEARCH BOARD

Since its establishment in 1960 by the National Association of Australian State Road Authorities the activities of the Australian Road Research Board had grown to such an extent that in 1965 the Board was registered as a Public company, with the Executive Heads of the six State Road Authorities and the Commonwealth Department of Works as the members and Directors of the Company.

At the Sixteenth meeting of the Board of Directors, held in Melbourne in May, 1970, Mr. I. J. O'Donnell, Chairman of the Country Roads Board, Victoria, was appointed Chairman and Mr. A. S. Reiher, Director-General of the Commonwealth Department of Works, Deputy Chairman for the year 1970-71.

To assist in the operation of the Board's research activities, an Advisory Council and various specialist committees have been established. A new committee, the Local Government Engineers Committee, was recently established to advise on areas of research of interest to Local Government. Some changes were also made to the terms of reference of some committees, with the emphasis on research projects closely associated with problems faced in practice.

Direct research, whether carried out by the Board or sponsored at universities and other institutions, continued in such areas as Traffic Flow Analysis, Traffic Control Division, Human Factors Research, Accident Analysis and Driver Characteristics, Transport Surveys including Economic Studies, Foundations and Analysis of Materials for Road Structures.

The planning of the Research Centre for the Board's permanent headquarters advanced a further step with the issue of a planning permit by the local authority in Melbourne. Sketch plans have now been approved with a view to the building being erected at an early date.

During the year a Symposium on Compaction was held in Wagga Wagga. About 250 delegates attended from State Road Authorities, Local Government Authorities and Private Industry. Members of the staff of the Department of Main Roads took part in the discussion which followed presentation of the papers at the Symposium. These papers and the discussion were printed in the December, 1969, issue of "Australian Road Research".

The report "Roading in the National Economy" was again amended to keep the information current. This report contains tables detailing the physical and financial impact on the community, and on the individual, of roading and road transport in Australia.

VISITORS FROM OVERSEAS

The Department continued its co-operation with Commonwealth Authorities in providing study facilities for Fellows nominated to visit Australia.

The visiting Fellows were:

Mr. Poomarinpong PRAPAT --- Colombo Plan Fellow from Thailand

Mr. Phromsaka Na Sagolnakorn WIWAKE - Colombo Plan Fellow from Thailand

Mr. Andrew George DIBBLE - ANZAC Fellow from New Zealand

Messrs. Prapat and Wiwake spent three weeks with the Department and were given opportunities to observe road construction techniques.

Mr. Dibble spent two weeks studying the forward planning of new traffic routes, traffic service facilities and the Department's overall organization, including the financing and programming of road and bridge works.

Other visitors from overseas who spent time observing the Department's activities and procedures were Mr. T. H. Tan, a Civil Engineer from Singapore, Mr. W. R. Drager, Senior Design Officer (Roads and Airports) of the Auckland Regional Authority, New Zealand, and Mr. A. T. Harcourt, a Draftsman from the Ministry of Works, New Zealand. Mr. Harcourt is spending ten weeks with the Department on "in-service" training in road design.

ARMY SUPPLEMENTARY RESERVE UNIT

The Twentieth Annual Camp of 21 Construction Regiment RAE(SR) was held at Singleton from 14th to 27th February, 1970.

The camp this year was a full Regimental Camp in which squadrons from all sponsoring Government Departments attended at the same time. The training undertaken comprised basic military skills, basic field engineering (including demolitions, mine warfare, water supply), range practices for SLR, OMC and pistol, and a three day deployment field exercise at squadron level for each sub-unit. A Communications Zone Recruit Course was run in conjunction with the camp; the majority of the instructors were drawn from the Regiment and in much of the Course administration was carried out by the Regimental Headquarters.

During the field deployment exercise, considerable use was made of Iroquois Helicopters by Regimental personnel on aerial reconnaissance, movement by air, etc. The squadron sponsored by the Snowy Mountains Hydro Electric Authority — 109 Construction Squadron — was flown to camp and returned to Cooma in Caribou aircraft.

Of the 414 members attending camp 212 were Departmental employees.

Visitors to the Regiment in camp included the Commissioner, Assistant Commissioner and Secretary of the Department of Main Roads, the President of the Metropolitan Water Sewerage and Drainage Board, the Newcastle District Engineer of the Public Works' Department, the G.O.C. Eastern Command, the Commander Communications Zone, the CMF Military Board Member, the Chief Engineer Eastern Command, the Chief Engineer 11CE(WKS) and several other senior officers.

During the training year prior to the camp, an Officer Promotion Coaching Course and an NCO Promotion Course were conducted. Members also participated in regular evening and weekend training parades at the Regiment's Depot at Marrickville.

APPENDICES

Appendix No. 1

(A) COMMONWEALTH AID ROADS FUND

STATEMENT OF RECEIPTS AND PAYMENTS FOR THE YEAR ENDED 30th JUNE, 1970

RECEIPTS	1969/70	PAYMENTS	1969/70
Grants under the Commonwealth Aid Roads Act 1969 — Urban Arterial Roads — Schedule 2 Rural Arterial Roads — Schedule 3 Other Rural Roads — Schedule 4 Planning & Research — Schedule 5	\$ 26,070,000 10,260,000 3,016,880 860,000	Construction and Reconstruction of Roads and Bridges — Work by Councils — Urban Arterial Roads — Schedule 2	
		Work by Department — Urban Arterial Roads — Schedule 2	3,414,105* 29,828,515*
Total Receipts	40,206,880	Land Acquisitions — Urban Arterial Roads — Schedule 2 Planning & Research ~ Schedule 5	5,768,343 314,854
Balance brought forward from last year	_	Total Payments Balance carried forward	39,325,817 881,063
	\$40,206,880		\$40,206,880

* For details see Appendix No. 7.

(B) COUNTY OF CUMBERLAND MAIN ROADS FUND STATEMENT OF RECEIPTS AND PAYMENTS FOR THE YEAR ENDED 30th JUNE, 1970 (i) General Purposes

RECEIPTS	1969/70 \$	1968/69 \$	PAYMENTS \$	1969/70 \$	1968/69 \$
Motor Vehicle taxation in accordance with the Main Roads Act, 1924 Charges on commercial vehicles under the Road	Ψ 7,329,367	6,967,353	Maintenance and minor improvements of roads and bridges — Work by Councils	Ŷ	814,99 [.]
Maintenance (Contribution) Act, 1958	3,174,401	2,959,884	Work by Department	4,910,576	3,331,54
of the Main Roads Act, 1924	9,819,528	7,538,001	Construction and reconstruction of	4,910,970	
and construction of Main and Secondary Roads Contributions by other departments and bodies	30,028	79,751	Work by Councils	4 1 40 4001	557,767 10,236,284
towards maintenance and construction of Main and Secondary Roads Grant under the Commonwealth Aid Roads Act,	320,805	13,528	Land acquisition	4,140,466‡ 7,510,084 2,330,307	4,680,840 1,700,758
1964 Other	530,410	5,618,544 640,408	Purchase of land and buildings for administration and operation	871,229	221,054
			Interest, exchange, management and flotation expenses Loans under Section 42A of the Main Roads Act,	166,630	153,93
			1924 — Interest State Treasury — repayment of temporary advance Other	594,334 100,000 182,498	454,253 100,000 160,023
Total Receipts	21,204,539	23,817,469	Total Payments Transfer to County of Cumberland Reserve for	20,806,124	22,411,439
			Transfers to and refunds from Special Purposes Accounts in respect of finance for Operating	128,550	110,776
			Accounts, Suspense Accounts and Reserve Accounts	158,416	1,409,617
Balance brought forward from last year	1,130,329	1,244,692	Balance carried forward	21,093,090 1,241,778	23,931,832 1,130,329
	\$22,334,868	\$25,062,161		\$22,334,868	\$25,062,161

(ii) Special Purposes

RECEIPTS \$	1969/70	1968/69	PAYMENTS \$	1969/70 \$	1968/69 \$
State Government Loans — Repayable Loan borrowings under Section 42A of the Main Roads Act, 1924	300,000	4,800,000 5,400,000	Construction and reconstruction of roads and bridges — Work by Councils		271,529
Sydney Harbour Bridge Account — Warringah Expressway — Construction (including land acquisition)		900,000	Work by Department	1,987,658* 43,088	10,952,197 8,706
Eastern Distributor (Cahill Express- way Construction) 73,768			Public Vehicles Fund Department of Public Works — for Drainage	-	59,167
Commonwealth Aid Roads Act, 1964 portion of	223,762		Research State Treasury — Loans —		566
grant for expenditure on Main Roads Commonwealth Aid Roads Act, 1964 — portion of		59,733	Sinking fund payment	13,130	10,820
grant for expenditure on rural roads	=	178,652 41,908	1924 — Repayment of principal	159,784	128,518
Total Receipts Net transactions of Operating Accounts, Suspense Accounts and transfers to and from the General	523,762	11,380,293			
Purposes Account in respect of finance for Reserve Accounts	176,236	764,584	Total Payments	2,203,660	11,431,503
Balance brought forward from last year	699,998 8,064,560	12,144,877 7,351,186	Balance carried forward	6,560,898	8,064,560
	\$8,764,558	\$19,496,063		\$8,764,558	\$19,496,063

* For details see Appendix No. 8A.

Appendix No. 1-continued

(B) COUNTY OF CUMBERLAND MAIN ROADS FUND-continued

STATEMENT OF RECEIPTS AND PAYMENTS FOR THE YEAR ENDED 30th JUNE, 1970-continued

(iii) Reserve for Loan Repayments

RECEIPTS	\$	1969/70 \$	1968/69 \$	PAYMENTS	\$	1969/70 \$	1968/69 \$
Transfer from — General Purposes Account Special Purposes Account	128,550 52,125	180,675	110,776 60,375	Balance carried forward — Investments Cash	948,200 35,130	002 220	678,200 84,139
Interest on investments		40,316	136,715			983,330	
Total Receipts Balance brought forward from last year —	•••••••••••	220,991	307,866				
Investments	678,200 84,139	762,339	385,300 69,173				
		\$983,330	\$762,339	Total Payments		\$983,330	\$762,339

(C) COUNTRY MAIN ROADS FUND

STATEMENT OF RECEIPTS AND PAYMENTS FOR THE YEAR ENDED 30th JUNE, 1970

(i) General Purposes

RECEIPTS	1969/70	1968/69	PAYMENTS	1969/70	1968/69
Motor vehicle taxation in accordance with the Main Roads Act, 1924	\$ 29,317,466	\$ 27,869,412	\$ Maintenance and minor improvements of roads and bridges —	\$	\$
Charges on commercial vehicles under the Road Maintenance (Contribution) Act, 1958	12,697,604	11,839,537	Work by Councils		5,695,560 9,784,276
Contributions by Councils towards maintenance and construction of Main Roads	38,805	182,310	Construction and reconstruction of	17,057,863	3,104,210
Contributions by other departments and bodies towards maintenance and construction of Main	00,000	102,010	roads and bridges — Work by Councils		9.684.771
Roads	233,917	107,852 21,918,175	Work by Department 10,020,983	16,578,251‡	28,136,947
Other	245,545	218,511	Land acquisition Administrative Expenses		602,508 3,678,322
			Purchase of land and buildings for administration and operation	1,055,331	857,123
			State Treasury — Loans — Interest, exchange, management and flotation expenses	865,245	817,177
			Loans under Section 42A of the Main Roads Act, 1924		
Total Receipts	42,533,337	62,135,797	Interest State Treasury — Repayment of temporary advance Other	333,384 100,000 414,462	96,358 100,000 522,426
			Total Payments Transfer to Country Reserve for Loan Repayments Transfers to and refunds from Special Purposes Accounts in respect of finance for Operating	41,056,371 96,915	59,975,468 26,250
			Accounts, Suspense Accounts and Reserve Accounts	1,944,203	2,327,930
Balance brought forward from last year	1,815,619	2,009,470	Balance carried forward	43,097,489 1,251,467	62,329,648 1,815,619
	\$44,348,956	\$64,145,267		\$44,348,956	\$64,145,267

(ii) Special Purposes

RECEIPTS State Government Loans — Repayable	1969/70 \$ 1,700,000	1968/69 \$	PAYMENTS Maintenance and minor improvement of roads and bridges —	1969/70 \$	1968/69 \$
Roads Act, 1924 Commonwealth Aid Roads Act, 1964 — portion of grant for expenditure on Main Roads	8,600,000 	2,700,000 794,933	Other than Main Roads — Work by Department Construction and reconstruction of	145,076	92,996
Commonwealth Aid Roads Act, 1964 — portion of grant for expenditure on rural roads Contributions by other departments and bodies	639,683	374,231 186,480	roads and bridges Work by Councils	9,373,097*	110,719 1,014,426
			Maintenance and construction of unclassified roads — Western Division	5,575,057	373,341
Total Receipts	10,939,683	4,055,644	Department of Motor Transport — Public Vehicles Fund Department of Public Works — for Drainage	_	236,667
			Research Department of Public Works — Expenditure on works connected with transport by water and on	_	2,266
Net transactions of Operating Accounts, Suspense			research work State Treasury — Loans — Sinking fund payment	 153,345	556,000 145,202
Accounts and transfers to and from the General Purposes Accounts in respect of finance for Reserve Accounts	1,960,227	1,039,616	Loans under Section 42A of the Main Roads Act, 1924 — Repayment of principal	54,597	32,568
Balance brought forward from last year	12,899,910 6,611,467	5,095,260 4,080,392	Total Payments Balance carried forward	9,726,115 9,785,262	2,564,185 6,611,467
	\$19,511,377	\$9,175,652		\$19,511,377	\$9,175,652

* For details see Appendix No. 9A.

Appendix No. 1-continued

(C) COUNTRY MAIN ROADS FUND-continued

STATEMENT OF RECEIPTS AND PAYMENTS FOR THE YEAR ENDED 30th JUNE, 1970-continued

	(iii) R	eserve for i	Loan Repayments		
RECEIPTS	1969/70	1968/69	PAYMENTS	1969/70	1968/69
Transfer from — \$	\$	\$	Balance carried forward —	\$	\$
General Purposes		26,250 19,647	Investments		95,00 31,05
Interest on investments	116,562 165,253	55,440		407,874	
Total Receipts	281,815	101,337			
Balance brought forward from last year Investments 95,000					
Cash	126,059	24,722			
·	\$407,874	\$126,059	Total Payments	\$407,874	\$126,059
	•		TAL ROADS FUND S FOR THE YEAR ENDED 30th JUNE, 1970		
		FAIMENT			
RECEIPTS	1969/70	1968/69	PAYMENTS	1969/70	1968/69
Grant under Section 5 (2) of the Commonwealth	\$	\$	Construction and reconstruction of Developmental	\$	\$
Aid Roads Act, 1964		1,724,117	Roads and Works Work by Councils	506,015*	1,319,850
Total Receipts		1,724,117	Total_Payments	506,015	1,319,850
Balance brought forward from last year	506,015	101,748	Balance carried forward		506,015
	\$506,015	\$1,825,865		\$506,015	\$1,825,865
Road Tolls	.1969/70 \$ 4,549,136	1968/69 \$ 4,302,533	Maintenance, lighting and clearing bridge and	1969/70 \$	1968/69 \$
			EXPENDITURE		
Boad Tolls	\$	\$	Maintenanco lighting and clearing bridge and		
Railway Tolls Omnibus Tolls	289,630 26,851	284,416 27,730	approaches Traffic facilities	576,936 149,018	577,746 132,184
Net rent from Properties	139,347	125,640	Cost of collecting road tolls Improvements and alterations to toll gates and	635,340	584,275
			archways Administrative Expenses	70,046 71,223	72,694 101,214
			Loan Charges — State Loans Loan Charges — Borrowings under Section 42A of	1,194,310	1,175,450
			the Main Roads Act	1,023,335	897,952
			Total Expenditure Excess of Income over expenditure transferred to	3,720,208	3,541,515
Table language	<u></u>		appropriation account	1,284,756	1,198,804
Total Income	\$5,004,964	\$4,740,319		\$5,004,964	\$4,740,319
<u> </u>	AP!	PROPRIATI	ON ACCOUNT 1969/70 1968/69		
from Incor Less Transfe	ne and Expe rs to Cour	r expenditure anditure Acco ity of Cumb	9 transferred \$ \$ unt		
Cahi	II Expresswa	l Purposes Ad y construction ssway approa	n 73,768 —		
Deficiency h	Surplus for	year d from last y	1,060,994 298,804		
		carried forwar			
,			LOAN RESERVE ACCOUNT FOR THE YEAR ENDED 30th JUNE, 1970 EXPENDITURE	1969/70	1968/69
Transfers from Sydney Harbour Bridge Account	\$ 353,878	\$ 226,487		\$	\$
Interest on Investments	38,994	23,231			

59

249,718 351,305

\$601,023

Balance carried forward

\$993,895

\$601,023

392,872 601,023

\$993,895

Total Income Balance brought forward from last year

Appendix No. 1-continued

SYDNEY HARBOUR BRIDGE ACCOUNT

BALANCE SHEET AS AT 30th JUNE, 1970 (EXCLUDING CAPITAL COST TRANSACTIONS)

ASSETS	1969/70	1968/69	LIABILITIES	1969/70	1968/69
Furniture, fittings and equipment	2 *	\$ 225,264	Reserve — Repayment of Loans raised by	\$	\$
Less Depreciation		60,533	Commissioner Creditors —	993,895	601,023
Stock on hand Debtors Cash at State Treasury and on hand Investments	61,488 1,379,487	40,622 67,146 294,029 569,000	State Treasury for Sinking Fund payments Other	1,944,160 254,551	1,944,160 235,364
Total Assets Accumulated Deficiency		1,135,528 1,645,019			
	\$3,192,606	\$2,780,547	Total Liabilities	\$3,192,606	\$2,780,547

Appendix No. 2

(A) COMMONWEALTH AID ROADS FUND

STATEMENT OF RECEIPTS AND PAYMENTS FOR THE FIVE YEARS ENDED 30th JUNE, 1970

Heading	1965–66	196667	1967–68	196869	1969–70
	\$	\$	\$	\$	\$
RECE	IPTS				
Grants under the Commonwealth Aid Roads Act, 1969 — Urban Arterial Roads — Schedule 2 Rural Arterial Roads — Schedule 3 Rural Roads other than	=			=	26,070,000 10,260,000
Arterial Roads — Schedule 4 Planning & Research — Schedule 5		_	=	=	3,016,880 860,000
Total\$		-			40,206,880
PAYM	ENTS				
Construction and reconstruction of roads and bridges — Urban Arterial Roads — Schedule 2 Rural Arterial Roads — Schedule 3 Other Rural Roads — Schedule 4 Land Acquisitions — Schedule 2 Planning & Research — Schedule 5					20,301,657 10,181,993 2,758,970 5,768,343 314,854
Total\$	—		<u> </u>	_	39,325,817

(B) COUNTY OF CUMBERLAND MAIN ROADS FUND

STATEMENT OF RECEIPTS AND PAYMENTS FOR THE FIVE YEARS ENDED 30th JUNE, 1970

(i) General Purposes

Heading	1965-66	1966-67	1967-68	1968-69	1969–70
	\$	\$	\$	\$	\$
RECE	IPTS				
Motor vehicle taxation and fees (State) Charge on heavy commercial goods vehicles under the Road Maintenance	5,975,888	6,230,662	6,534,537	6,967,353	7,329,367
(Contribution) Act (State) Commonwealth Aid Roads Acts Levy upon Councils under Section 11 of the Main Roads Act	2,207,023 4,649,532	2,281,026 4,954,583	2,513,109 5,279,159	2,959,884 5,618,544	3,174,401
Contribution by Councils	6,418,388 82,814 541,050	7,600,200 128,878 490,776	8,240,912 192,095 711,776	7,538,001 79,751 653,936	9,819.528 30,028 851,215
Total\$	19,874,695	21,686,125	23,471,588	23,817,469	21,204,539
PAYM	ENTS				
Maintenance and minor improvement of roads and bridges Construction and reconstruction of roads and bridges Land acquisition Administrative expenses	2,928,964 10,989,989 3,407,598 772,977	3,349,295 11,065,727 3,868,100 1,166,933	3,646,681 9,355,208 4,400,652 1,474,188	4,146,532 10,794,051 4,680,840 1,700,758	4,910,576 4,140,466 7,510,084 2,330,307
Purchase of land and buildings for administration and operation Interest, exchange, management and flotation expenses on State Loans Interest loans raised under Section 42A of the Main Roads Act Other	199,720 121,090 248,537 133,719	263,344 122,860 289,372 186,269	174,848 122,390 305,983 146,255 100,000	221,054 153,930 454,252 160,022 100,000	871,229 166,630 594,334 182,498 100,000
Total\$	18,802,594	20,293,900	19,726,205	22,411,439	20,806,124

Appendix No. 2-continued

(B) COUNTY OF CUMBERLAND MAIN ROADS FUND-continued

STATEMENT OF RECEIPTS AND PAYMENTS FOR THE FIVE YEARS ENDED 30th JUNE, 1970-continued

(ii) Special Purposes

Heading	1965-66	1966-67	1967–68	1968-69	1969-70
	\$	\$	\$	\$	\$
RECE	IPTS				
Loan Funds — State Government Loan Funds — Borrowings under Section 42A of the Main Roads Act Expressways — Construction from Sydney Harbour Bridge Account Commonwealth Aid Roads Act Contributions from other departments and bodies	1,005,000 4,750,000 430,351	800,000 700,000 3,743,241 208,169 480,000	4,700,000 3,750,000 4,775,000 160,444	4,800,000 5,400,000 900,000 238,385 41,908	300,000 223,762
Total\$	6,185,351	5,931,410	13,385,444	11,380,293	523,762
PAYME	INTS				
Construction and reconstruction — Main Roads (and bridges) Roads (and bridges) other than Main Roads Construction of Expressways Department of Motor Transport — for Public Vehicles Fund Department of Public Works — for research Payments of Sinking Fund — State Government Loans Repayment of Principal — Loans raised under Section 42A of the Main Roads Act	1,457,672 4,569,979 52,599 800 8,270 89,516	236,052 27,063 7,290,796 54,703 8,940 92,448	1,057,909 11,740,691 56,891 9,620 95,542	4,633,286 272,937 6,326,209 59,167 566 10,820 128,518	1,393,237 637,509 13,130 159,784
Total	6,178,836	7,710,002	12,960,653	11,431,503	2,203,660

(C) COUNTRY MAIN ROADS FUND

STATEMENT OF RECEIPTS AND PAYMENTS FOR THE FIVE YEARS ENDED 30th JUNE, 1970

(i) General Purposes

Heading	1965–66	1966-67	1967-68	1968-69	1969-70
	\$	\$	\$	\$	\$
RECE	IPTS				
Motor Vehicle taxation and fees (State)	23,903,553 1,556,733	24,922,646 338,148	26,138,150 10, 1 08	27,869,412	29,317.466
Charge on heavy commercial goods vehicles under the Road Maintenance (Contribution) Act (State) Commonwealth Aid Roads Acts Contributions by Councils Other	8,828,091 18,040,129 74,293 240,955	9,124,104 19,262,334 120,662 460,896	10,052,435 20,561,636 192,923 456,046	11,839,537 21,918,175 182,310 326,363	12,697.604 38,805 479,462
Total\$	52,643,754	54,288,790	57,411,298	62,135,797	42,533,337
PAYM	ENTS				
Maintenance and minor improvements of roads and bridges Construction and reconstruction of roads and bridges Land acquisition Administrative expenses Purchase of land and buildings for administration and operation Interest, exchange, management and flotation expenses on State Loans Interest on Loans raised under Section 42A of the Main Roads Act Other	12,884,237 32,756,664 610,697 2,984,387 631,016 556,394 413,531 200,000	14,319,468 34,315,885 779,231 3,128,768 656,341 828,960 434,378 200,000	13,693.520 35,001,249 641,974 3,342,109 511,044 845,718 561,113 100,000	15,479,836 37,821,718 602,508 3,678,322 857,123 817,177 96,357 522,426 100,000	17,057,863 16,578,251 849,494 3,802,341 1,055,331 865,245 333,384 414,462 100,000
77 Total\$	51,036,926	54,663,031	54,696,727	59,975,468	41,056,371

(ii) Special Purposes

Heading	1965-66	1966-67	1967-68	196869	1969–70
	\$	\$	\$	\$	\$
RECE	IPTS				
Repayable advance — State Government	4,000,000 35,300 957,747 133,446	*800,000 3,200,000 1,000,000 62,505 900,597 25,640	300,000 963,339	2,700,000 1,169,164 186,480	1,700,000 8,600,000 639,683
Total\$	5,126,493	5,988,742	1,263.339	4,055,644	10,939,683
PAYM			,	·	
Aaintenance of roads, bridges and ferries — other than Main Roads		8,420	11.774	, 92,996	145,076
Main Roads (and bridges) Roads (and bridges) other than Main Roads Aaintenance and construction — Unclassified roads in the Western Division Department of Motor Transport — for Public Vehicles Fund Department of Public Works — for works connected with transport by water	42,759 6,438,311 59,366 210,397	81,215 3,010,449 112,167 218,813	330.000 11.097 169,677 227,565 555,000	1,124,255 890 373,341 236,667 558,266	8,984,356 388,741
and for research	561,200 115,276	556,000 133,713 —	140,592	145,202 32,568	153,345 54,597
-	7,427,309	4,120,777	1,445,705	2.564,185	9,726,115

Appendix No. 2-continued

(D) DEVELOPMENTAL ROADS FUND

STATEMENT OF RECEIPTS AND PAYMENTS FOR THE FIVE YEARS ENDED 30th JUNE, 1970

Heading	1965-66	1966-67	1967-68	196869	1969 70
	\$	\$	\$	\$	\$
RECEI	IPTS				
commonwealth Aid Roads Acts	1,394,898 150	1,816,750	1,887,674	1,724,117	
Total\$	1,395,048	1,816,750	1,887,674	1,724,117	-
PAYME	ENTS				
Construction and reconstruction of Developmental Roads and Works	1,381,236	1,802,990	1,825,310	1,319,850	506,015
Total\$	1,381,236	1,802,990	1,825,310	1,319,850	506,015

(E) TOTAL ALL ROADS FUNDS

STATEMENT OF RECEIPTS AND PAYMENTS FOR THE FIVE YEARS ENDED 30th JUNE, 1970

(i) General Purposes

Heading	1965-66	1966-67	1967–68	1968-69	196970
	\$	\$	\$	\$	\$
RECE	IPTS				
Notor Vehicle taxation and fees (State) Fransfer from the Road Transport and Traffic Fund Charge on heavy commercial goods vehicles under the Road Maintenance	29,879,441 1,556,733	31,153,308 338,148	32,672,687 10,108	34,836,765	36,646,833
(Contribution) Act (State) Commonwealth. Aid Roads Acts Levy upon Councils under Section 11 of the Main Roads Act Contributions by Councils Dther	11,035,114 24,084,559 6,418,388 157,107 782,155	11,405,130 26,033,667 7,600,200 249,540 951,672	12,565,544 27,728,469 8,240,912 385,018 1,167,822	14,799,421 29,260,836 7,538,001 262,061 980,299	15,872,005 40,206,880 9,819,528 29,878 1,369,632
Total\$	73,913,497	77,731,665	82,770,560	87,677,383	103,944,756
PAYM	ENTS	· · · · · · · · · · · · · · · · · · ·	·		
Maintenance and minor improvement of roads and bridges Construction and reconstruction of roads and bridges	15,813,201 45,127,889 4,018,295 3,757,364 	17,668,763 47,184,602 4,647,331 4,295,701 919,685 951,820 289,372 602,647 200,000	17,340,201 46,181,767 5,042,626 4,816,297 685,892 968,108 305,983 707,368 200,000	19,626,368 49,935,619 5,283,348 5,379,080 1,078,177 971,107 550,610 682,448 200,000	21,968,439 54,467,352 14,127,921 6,132,648 314,854 1,926,560 1,031,875 927,718 596,960 200,000
Total\$	71,220,756	76,759,921	76,248,242	83,706,757	101,694,327

(ii) Special Purposes

Heading	1965-66	1966-67	1967–68	196869	1969–70
	\$	\$	\$	\$	\$
RECE	IPTS				
Repayable advance — State Government Loan Funds — State Government	4,000,000 1,005,000 35,300 4,750,000 1,388,098 133,446	800,000 4,000,000 1,700,000 62,505 3,743,241 1,108,766 505,640	4,700,000 4,050,000 4,775,000 1,123,783	4,800,000 8,100,000 900,000 1,407.549 228,388	2,000,000 8,600,000 223,762 639,683
Total\$	11,311,844	11,920,152	14,648,783	15,435.937	11,463,445
PAYM	ENTS				
Maintenance of roads, bridges and ferries — other than Main Roads Construction and reconstruction — Main Roads (and bridges)	 1.500.431	8,420 317,267	11,774	92,996 5,757,541	145,076
Roads (and bridges) other than Main Roads Construction of Expressways	6,438,311 4,569,979	3,037,512 7,290,796	11,097 11,740,691	273,827 6,326,209	388,741 637,509
Maintenance and construction — Unclassified roads in the Western Division Department of Motor Transport — for Public Vehicles Fund Department of Public Works — for works connected with transport by water	59,366 262,996	112,167 273,516	169,677 284,456	373,341 295,834	=
and for research	562,000 123,546	556,000 142,653	555,000 150,212	558.832 156,022	166,475
Act	89,516	92,448	95,542	161,086	214,381
Totai\$	13,606,145	11,830,779	14,406,358	13,995,688	11,929,775

Appendix No. 2—continued

(F) SYDNEY HARBOUR BRIDGE ACCOUNT

STATEMENT OF INCOME AND EXPENDITURE FOR THE FIVE YEARS ENDED 30th JUNE, 1970

Heading	1965-66	1966-67	1967-68	1968–69	196970
	\$	\$	\$	\$	\$
INCC	ME	-			
Road tolls on vehicles	3,858,700 281,355	3,878,326 280,250	4,010,747 287,216	4,302,533 284,416	4,549,136 289,630
Jmmibus passenger tolls	29,254 130,510 1,302	29,252 107,176 352	26,777 119,172 76	27,730 125,640	26.851 139,347
Total\$	4,301,121	4,295,356	4,443,988	4,740,319	5,004,964
- EXPEND	ITURE	·	<u> </u>	·	<u> </u>
oan Charges — State Loans		1	1	1	1
Interest	775,150	777,150	767,400	755,970	751,830
Exchange_	36,780	31,890	22,490	12,570	13,250
Sinking Fund	323,180	338,700	357,350	367,360	385,170
Management expenses	2,910	2,630	3,200	2,430	2,610
Flotation expenses	43,930	44,650	44,990	37,120	41,450
.oan Charges — borrowings under Section 42A of the Main Roads Act, 1924	1,181,950	1,195,020	1,195,430	1,175,450	1,194,310
Interest	83,145	269,947	471.768	517,747	508,958
Repayment of Principal	35,434	79.901	126,435	153.718	160,499
Transfer to Reserve for loan repayment	20,523	56,563	227,209	226,487	353,878
	139,102	406,411	825, 412	897,952	1,023,335
faintenance, lighting and cleaning bridge and approaches	567,977	584,015	570,742	577,746	576,936
tramways	34.010	(<u> </u>	í <u> </u>	í —	_
rovision of traffic facilities	78.063	116.592	136,103	132,184	149,018
ost of collecting road tolls	424,825	542,742	539,634	584,275	635,340
Iterations to archways for occupation by tenants	35,424		- ·	72,694	70,046
other	42,401	47,422	55,416	101,214	71,223
Total	2,503,752	2,892,202	3,322,737	3,541,515	3,720,208
Surplus for the year	1.797.369	1,403,154	1.121.251	1,198,804	1,284,756

Appendix No. 3

SUMMARY OF LOAN LIABILITIES

LIABILITIES TO THE STATE TREASURY

		Cumberland ads Fund	Country Main	n Roads Fund	Developmental Roads Fund	
Particulars	Section 13 (4C) of Main Roads Act, 1924	Sydney-Newcastle Expressway	Section 21 (3, 3A and 3B) of Main Roads Act, 1924	Sydney-Newcastle Expressway	Section 21 (8) of Main Roads Act, 1924	Total
GROSS LIABILITY ASSUMED -	\$	\$	\$	\$	\$	\$
Prior to 1st July, 1969 During 1969/70	3,600,000.00	9,300,000.00 300,000.00	13,785,304.52 1,400,000.00	13,700,000.00 300,000.00	3,449,038.99	43,834,343.51 2,000,000.00
Total to 30th June, 1970	3,600,000.00	9,600,000.00	15,185,304.52	14,000,000.00	3,449,038.99	45,834,343.51
REPAYMENT OF PRINCIPAL AND SINKING FUND CONTRIBUTION — Prior to 1st July, 1969 — By Department By Commonwealth Government under Financial Agreement and Federal Aid Roads and Works Agreement	62,150.00 47,086.03	22,050.00 21,608.30	3,969,296.27	142,560.00 98,676.04	47,001.08* 337,151.05	4,243,057.35
Total prior to 1st July, 1969	109.236.03	43.658.30	5,316,791.04	241,236.04	384,152,13	6,095,073.54
During 1969/70 — By Department By Commonwealth Government under Financial Agreement	13,130.00 8,784.62	25,880.00 23,491.88	153,345.21 26,681.33	44,660.00 33,606.94	8,450.33	237,015.21
Total during 1969/70	21,914.62	49,371.88	180,026.54	78,266.94	8,450.33	338,030.31
To 30th June, 1970 — By Department By Commonwealth Government under_Financial_Agreement	75,280.00	47,930.00	4,122,641.48	187,220.00	47,001.08	4,480,072.56
and Federal Aid Roads and Works Agreement	55,870.65	45,100.18	1,374,176.10	132,282.98	345,601.38	1,953,031.29
Total to 30th June, 1970	131,150.65	93,030.18	5,496,817.58	319,502.98	392,602.46	6,433,103.85
NET LIABILITY AT 30th JUNE, 1970	3,468,849.35	9,506,969.82	9,688,486.94	13,680,497.02	3,056,436.53	39,401,239.66

* State Treasury has paid \$1,374,865.46 to 30th June, 1970 in connection with the Sinking Fund liability.

Appendix No. 4

SUMMARY OF LOAN LIABILITIES

LOAN BORROWINGS UNDER SECTION 42A OF THE MAIN ROADS ACT

Dartieuleur	County of Cumberland	Sydney-Newca	astle Tollway	Country	Sydney Harbour Bridge Account	Tatal
Particulars	Main Roads Fund	County of Cumberland	Country	Main Roads Fund	Warringah Expressway	Total
	\$	\$	\$	\$	\$	\$
GROSS LIABILITY ASSUMED — Prior to 1st July, 1969 During 1969/70	10,805,000 550,000	4,550,000 550,000Dr.	1,000,000	3,000,000 8,600,000	9,320,000	28,675,000 8,600,000
	\$11,355,000	\$4,000,000	\$1,000,000	\$11,600,000	\$9,320,000	\$37,275,000
REPAYMENT OF PRINCIPAL AND SINKING FUND CONTRIBUTION — Prior to 1st July, 1969 — Principal Sinking Fund During 1969/70 — Principal Sinking Fund Net Interest on Investments	446,150 654,414 128,550 40,316 	10,000 107,925 52,125 52,125 52,125	35,499 43,994 19,647 	32,568 82,065 54,597 96,915 165,252 262,167	395,489 591,198 160,499 353,878 42,236 396,114	919,706 1,479,596 404,232 651,115 247,804 898,919
Total to 30th June, 1970	\$1,429,214	\$180,050	\$118,492	\$431.397	\$1,543,300	\$3,702,453
NET LIABILITY AT 30th JUNE, 1970	\$9,925,786	\$3,819,950	\$881,508	\$11,168,603	\$7,776.700	\$33,572,547

Appendix No. 5 DETAILS OF LOANS RAISED DURING THE YEAR ENDED 30th JUNE, 1970 LOAN BORROWINGS UNDER SECTION 42A OF THE MAIN ROADS ACT

Loan	Rate	Country Main Roads Fund	Term	Date of Maturity	
No.	%	General Purposes	(Years)	Date of Maturity	
138 139 140 141 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161	6.4 6.4 6.4 6.3 6.3 6.4 6.3 6.4 6.3 6.4 6.3 6.4 6.4 6.3 6.4 6.4 6.4 6.4 6.4 6.4 6.4 6.4 6.4 6.4	\$ 150,000 150,000 500,000 500,000 500,000 500,000 500,000 150,000 300,000 87,000 100,000 100,000 100,000 100,000 200,000 200,000 250,000 250,000 250,000 250,000 1,000,000 10,000 700,000 888,000 \$8,600,000	15 45 45 15 10 25 10 10 15 40 10 10 14 4 15 20 7 7 20 7 7 10 15 15 10	12th August, 1984 15th August, 2014 15th August, 2014 1st September, 1984 22nd August, 1979 26th September, 1999 26th September, 1979 26th September, 1979 3rd November, 1979 3rd November, 1979 7th November, 2009 17th October, 1979 7th November, 1979 7th November, 1974 1st December, 1984 31st December, 1985 13th March, 1985 20th February, 1990 31st March, 1974 8th June, 1977 3rd June, 1977 1st June, 1985 15t June, 1985 26th June, 1980	

Appendix No. 6

DETAILS OF OUTSTANDING LOANS AS AT 30th JUNE, 1970

LOAN BORROWINGS UNDER SECTION 42A OF THE MAIN ROADS ACT

1	Rate %		I						
Loan No.		County of Cumberla	nd Main Roads Fund	Country Main Roads Fund		Sydney Harbour	Term (Years)	Date of Maturity	Annual charge for
		General Purposes	Special Purposes	General Purposes	Special Purposes	Bridge Account	,		interest
1 2 3 4 5 6 7 8 9 10 11 12 13	5.0 5.125 5.5 5.5 5.5 5.375 5.5 5.375 5.5 5.5 5.5 5.5 5.5 5.5 5.5	\$ 880,000 630,000 200,000 82,258 361,642 102,564 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000 100,000	\$ 	\$ 	\$ 	\$ 100.000	15 10 15 20 15 10 10 15 10 18 20 15 20	23rd March, 1979 8th September, 1974 7th September, 1979 6th October, 1984 27th October, 1979 28th October, 1974 1st October, 1974 25th February, 1980 26th February, 1975 3rd March, 1983 5th March, 1985 4th June, 1985	\$ 44,000 31,925 4,477 19,48 4,93 5,37 5,500 10,75 5,500 4,57 5,500 5,500

Appendix No. 6---continued

DETAILS OF OUTSTANDING LOANS AS AT 30th JUNE, 1970-continued

LOAN BORROWINGS UNDER SECTION 42A OF THE MAIN ROADS ACT-continued

	<u>.</u>			Balance of Loan					
Loan No.	Rate %	County of Cumberla		Country Main	Roads Fund	Sydney Harbour	Term	Date of Maturity	Annual charge for
140.	78	General Purposes	Special Purposes	General Purposes	Special Purposes	Bridge Account	(Years)		interest
14	5.375	\$	\$	\$	\$	\$ 226,366	10	13th May, 1975	\$ 11,629
15	5.5	75,199	_		-		15	28th April, 1980	4,057
16 17	5.75 5.75	100,000 200,000	_				20 15	31st May, 1985 16th June, 1980	5,750 11,500
18	5.75 5.75	400,000				_	30	17th June, 1995 22nd June, 1980	23,000
19 20	5.625	90,000 20,000	-				15 10	16th June, 1975	5,175
21 22	5.75 5.75	75,553 80,000	—		-		15 15	24th June, 1980 25th June, 1980	4,262 4,600
23	5.75		_	_	_	200,000	15	21st January, 1981	11,500
24 25	5.75 5.75	200,000		_		156,642	15 40	4th August, 1980 30th July, 2005	8,848 11,500
26	5.625					368,000	10	18th August, 1975	20,475
27 28	5.75 5.625	140,000				100,000	20 10	1st December, 1985 22nd December, 1975	8,050 5,625
29	5.75	100,000	. .	_			20	1st February, 1986	5,750
30 31	5.75 5.75	50,000	—		=	60,000	30 15	16th December, 1995 17th January, 1981	2,875 3,450
32	5.625 5.75	100,000			—	200,000	10	25th January, 1976	11,250
33 34	5.625	_			_	20,000	25 10	1st February, 1991 7th March, 1976	5,750 1,125
35 36	5.75 5.75	100,000	—	_		100,000	50 15	21st Marcn, 2016 5th April, 1981	5,750 5,750
37	5.75		_		_	100,000	15	4th April, 1981	5,750
38 39	5.625 5.75		_		_	50,000 200,000	10 15	1st April, 1976 18th May, 1981	2,812
40	5.75	100,000		(=		-	30	12th May, 1996	5,750
41 42	5.75 5.75		_			324,047 100,000	15 15	19th May, 1981 12th May, 1981	18.323 5.750
43	5.625		—		-	80,000	10	7 th June, 1976	4,500
44 45	5.75 5.75	10,000 150,000				—	16 40	31st May, 1982 21st June, 2006	575 8,625
46	5.75 5.75	50,000	1 .	_	—	184,000	15	20th June, 1981	10,580
47 48	5.75	5,000			-		30 16	15th June, 1996 31st May, 1982	2,875 288
49 50	5.75 5.625		—		—	162,024 80,000	15 10	21st June, 1981 23rd June, 1976	9,162
50	5.625				_	30,000	10	28th June, 1976	4,500 1,688
52 53	5.625 5.75		_	_		200,000 200,000	10 15	28th June, 1976 19th August, 1981	11,250 11,500
54	5.75			_		500,000	20	10th August, 1986	28,750
55 56	5.75 5.75		_	_	_	100,000 10,000	15 16	5th August, 1981 31st May, 1982	5,750 575
57	5.875	-	_	—	345,149	_	15	27th April, 1982	19,981
58 59	5.75 5.75					15,000 188,000	15 15	16th August, 1981 1st November, 1981	862
60	5.75	-			-	100,000	15	22nd November, 1981	5,750
61 62	5.625 5.625					250,000 110,000	10 10	19th December, 1976 1st February, 1977	14,062
63 64	5.75 5.75				_ ·	100,000	15	28th December, 1981	5,750
65	5.75				-	282,000 100,000	15 15	1st February, 1982 14th February, 1982	16,215 5,750
66 67	5.75 5.5625			<u> </u>	-	6,000 123,577	15 7	31st May, 1982 21st February, 1974	345 6,484
68	5.75		i —	_	—	15,000	15	1st February, 1982	863
69 70	5.875 5.875				200,000 200,000		15 20	2nd March, 1982 1st April, 1987	11,750 11,750
71	5.875	-	300,000	_		_	15	17th March, 1982	17,625
72 73	5.875 5.875	=	400,000		200,000	_	25 15	15th March, 1992 1st June, 1982	23,500 11,750
74	5.5 5.75	-			—	75,000	6	1st May, 1973	4,125
75 76	5.875	=				19,000 600,000	10 15	11th April, 1977 3rd August, 1982	1,092 35,250
77 78	5.875 5.75				—	100,000	20 10	1st August, 1987 6th September, 1977	5,875
79	5.875		·		_	50,000 464,337	20	13th July, 1987	2.875 27,051
80 81	5.875 5.875		100,000		_	500,000	45 30	21st July, 2012 1st December, 1997	29,375 5,875
82	5.875	288,000		· _	—		15	15th August, 1982	16,744
83 84	5.875 5.875		=		_	20,000 50,000	15 24	16th August, 1982 31st August, 1991	1,175 2,938
85 86	5.75 5.75	1 =	-	_	-	50,000	10	6th September, 1977	2,875
87	5.875	400,000			_	16,008	10 15	18th September, 1977 6th October, 1982	895 23,500
88 89	5.875 5.875) =				100,000 100,000	16 30	1st October, 1983 27th November, 1997	5.875 5,875
	5.375]	-	417,200	_	—		7	1st December, 1974	
90	5.625 5.625		803,900 28,900	_	_	_	10 15	1st December, 1977 } 1st December, 1982 }	69,479
91	5.875				—	50,000	15	26th October, 1982	2,938
92 93 94	5.75 5.875				_	20,000 70,000	10 15	16th October, 1977 1st November, 1982	1,150 4,112
94	5.75 5.875	-	-	—	-	225,000	10	17th November, 1977	12,578
95 96	5.875	_	192,000			150,000	15 15	21st November, 1982 21st November, 1982	8,812 11,162
97 98	5.75		-	-	—	24,012	10	22nd November, 1977	1,343
99	5.875 5.875	_				400,000 500,000	25 45	16th February, 1993 8th December, 2012	23,500 29,375
100 101	5.875 5.75		750,000		-		45 10	19th January, 2013	44,062
102	5.875	=	288,000		_	40,000	15	16th January, 1978 1st March, 1983	2,300 16,920
103 104	5.875 5.75		300,000	210,652		_	15 10	15th March, 1983	17,625
105	5.875	150,000		—		_	15	15th March, 1978 15th March, 1983	11,809 8,812
106 107	5.875 5.75	l <u> </u>		30,000 20,000	<u> </u>	—	25 10	1st April, 1993	1,762
108	5.875		_	250,000			40	8th May, 1978 16th July, 2008	1,150 14,688
109 110	5.875 5.875	100,000	_	500,000			15 15	26th July, 1983 31st October, 1983	29.375 5.875
111 112	5.875	40,000 479,224		_			25	31st October, 1993	2,350
113	5.875 5.75	20,000		_		_	20 10	6th September, 1988 8th July, 1978	27.939
	-				1		1		

Appendix No. 6-continued

DETAILS OF OUTSTANDING LOANS AS AT 30th JUNE, 1970-continued

LOAN BORROWINGS UNDER SECTION 42A OF THE MAIN ROADS ACT-continued

				Balance of Loan					
Loan No.	Rate %	County of Cumberla	nd Main Roads Fund	Country Mair	Roads Fund	Sydney Harbour	Term (Years)	Date of Maturity	Annual charge for
		General Purposes	Special Purposes	General Purposes	Special Purposes	Bridge Account			interest
	5.875	\$	\$	\$ 300,000	\$	\$	45	26th July, 2013	\$ 17.625
114	5.875	150.000	_	300,000			45 45	26th July, 2013	8.813
116	5.875	28,000					15	3rd December, 1983	1,645
117	5.75	190,000				_	10	6th September, 1978	10,638
118	5.75	100,000	i _	_	_	_	10	4th October, 1978	5,750
119	5.875			400,000	-		15	1st November, 1983	23,500
120	5.875	400,000		-			15	14th October, 1983	23,500
121 122	5.875 5.875	100,000 200,000	—	_	—		15 15	8th November, 1983 7th November, 1983	5.875 11.750
123	5.875	300,000		_			45	29th November, 2013	17.625
124	5.875	400,000		_	_	-	45	3rd January, 2014	23,500
125	5.875		_	958,449			20	29th November, 1988	55.878
126	5.875			250,000	=	_	40	20th November, 2008	14,688
127	5.75	92,100	-	_		—	10	29th November, 1978	5,296
128	5.75	190,000	-	_	=		10	6th December, 1978	10.637
129	5.875	1,000,000	-	_		-	40	28th November, 2008 6th December, 1972	58.750
130 131	5.5 5.875	100,000	400,000				4 15	3rd February, 1984	5,500 23,500
132	5.875	100,000	400,000			_	15	22nd January, 1984	5.875
133	5.875	12,000			_	1	15	3rd January, 1984	705
134	5.875	765.528	-			_	15	3rd January, 1984	44,446
135	5.875	90,000	_	_		-	15	28th February, 1984	5,287
136	5.875	50,000					15	18th February, 1984	2,937
137	5.75	17,900	—		-	-	10	27th March, 1979	1,029
138	6.4	-		150,000 150,000	-		15 45	12th August 1984 15th August, 2014	9,600 9,600
139 140	6.4 6.4	-		500,000			45 45	15th August, 2014	32,000
141	6.4			500,000	_		15	1st September, 1984	32,000
142	6.3	_		150,000	-	_	10	22nd August, 1979	9,214
143	6.4			743,734	<u> </u>		25	26th September, 1994	47.392
144	6.3	-		500,000	_	—	10	10th October, 1979	31,500
145	6.3			100,000	-	-	10	26th September, 1979	6.143
146	6.4 6.4	-	—	300,000 87,000	-	1	15 40	3rd November, 1984 3rd November, 2009	19,200
147 148	6.3			100,000		_	10	17th October, 1979	6,300
149	6.3			100,000	_		10	7th November, 1979	6,143
150	6.1			200,000			4	2nd February, 1974	12,200
151	6.4		_	300,000	_	_	15	1st December, 1984	19,200
152	6.4			1,000,000		_	40	31st December, 2009	64,000
153	6.3	· ·		50,000	Ξ	-	10	16th January, 1980	3,150
154	6.4			200,000		-	15	2nd March, 1985	12,800
155 156	6.4 6.4		l –	250,000		_	15 20	13th March, 1985 20th February, 1990	16,000
156	6.4 6.1	I =		175,000		_	20	31st March, 1974	10.997
158	7.15	I <u>–</u>		200.000			7	8th June, 1977	14.300
159	7.4			1.000.000	=	_	20	3rd June, 1990	70,754
	6.0)	<u> </u>		458,200	-	— —	7	1st June, 1977)	
160	6.2 } 6.25]	_	-	229,500 12,300		-	10 15	1st June, 1980 1st June, 1985	42,490
161	7.3	=		888,000		_	10	26th June, 1980	64,824
	Total	\$10,749,066	\$3,980,000	\$11,512,835	\$945,149	\$8,764,013			\$2,124,131

Appendix No. 6A

DETAILS OF INVESTMENTS OF LOAN RESERVE FUNDS AS AT 30th JUNE, 1970

LOAN BORROWINGS UNDER SECTION 42A OF THE MAIN ROADS ACT

			Amount		Rate of	
Investment No.	Nature of Investment	County of Cumberland Fund	Country Main Roads Fund	Sydney Harbour Bridge Loan Reserve Account	Interest	Date of Maturity
		\$	\$	\$	%	
702	Commonwealth Government Inscribed Stock	50,000		-	5.0	15th November, 1975
703	Commonwealth Government Inscribed Stock	50,000		_	5.25	15th July, 1988
704	Department of Main Roads N.S.W.	50,000				1
705	Inscribed Stock		—	19,000	5.75	11th April, 1977
706	Inscribed Stock Department of Main Roads N.S.W.	50,000	—	-	5.75	6th September, 1977
	Inscribed Stock	_	_	50,000	5.75	6th September, 1977
707	Department of Main Roads N.S.W.	_		150,000	5.325	1st December, 1974
708	Metropolitan Water Sewerage and	100.000	00.000		5.75	
709	Drainage Board Inscribed Stock Department of Main Roads N.S.W.	100,000	20,000	80,000		1st April, 1978
710	Inscribed Stock Metropolitan Water Sewerage and	-		20,000	5.75	8th May, 1978
	Drainage Board Inscribed Stock	250,000	—	· <u> </u>	5.75	27th February, 1979
711	Metropolitan Water Sewerage and Drainage Board Inscribed Stock	135,300			5.75	1st February, 1979
712	Department of Main Roads N.S.W.				5.75	27th March, 1979
713	Metropolitan Water Sewerage and	17,900	_	_		,
714	Drainage Board Inscribed Stock Commonwealth Government Inscribed	—		200,000	5.75	28th April, 1979
	Stock	25,000	75,000	50,000	5.3	15th April, 1976
715	Department of Main Roads N.S.W. Inscribed Stock	20,000	50,000	_	6.0	1st June, 1977
716	Department of Main Roads N.S.W.			000.000		
	Inscribed Stock	250,000	250,000	388,000	7.3	26th June, 1980

Appendix No. 7

COMMONWEALTH AID ROADS FUND

SUMMARY OF EXPENDITURE FROM DEPARTMENT'S FUNDS ON CONSTRUCTION AND RECONSTRUCTION WORKS

(A) COUNTY OF CUMBERLAND AREA

(i) Expressways

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructi Authority		Amount
						\$
		NORTH WESTERI	N EXPRESSWAY			
unters Hill [Х3	Bridge over Tarban Creek	[Repairs to portal leg joints	Department		142,51
					<u> </u>	\$142,51
		WESTERN EX	(PRESSWAY			
urn	X4	King Avenue, Auburn	Prestressed concrete bridge			2,0
0	X4	Hill Road, Auburn	do			6,2 11,4
royd rith	X4 X4	Clay Cliff Creek Mulgoa Road, 15.97m. from Penrith	Piping Overpass			182.0
0	X4	Bringelly Road, 13.47m. from Penrith	Underpass			18,30
o	X4	Nepean River at Regentville	Prestressed concrete bridge			558,9
0	X4	Regentville to St. Marys	Construction			1,806.3
o o	X4 X4	South Creek, 9.57m. from Penrith	Box culvert			202,1 161,5
o	X4	Bridge over Nepean River at Regentville	Western approach			5,8
						\$2,955,0
		SOUTH WESTER	N EYPRESSWAY		I—	
pbelltown	X5	Brooks Road, Ingleburn	Overbridge	Department		61,9
o	X5	Aero Road, Ingleburn	Twin overbridges			28,8
o	X5 X5	Cross Roads to Campbelliown	Construction			971,7 2,5
•	72	Cottage Creek, 4.18m. from S.H. No. 2	Prestressed concrete bridge	1 40		\$1,065,1
					I_	φ1,000,1
· · ·	Ve	Western Distributer		Department	,	954,7
iey !	X6	Western Distributor	Construction 1st stage	Department	······ _	
					_	\$954,7
			Total — Expressways			\$5,117,4
		(ii) State I	Highways			
		PRINCE'S				
kdale	1	Bay Street to Catherine Street	Widening and reconstruction	Department	1	193,3
erland	i	Auburn Road to Hotham Road	Reconstruction and widening			12,4
	1	Anzac Avenue, Engadine to Veno Street, Heathcote	Dual carriageway and deviation	do		525,2
						\$731,0
-		HUME HI	CHWAY		I	
kstown]	2	Johnson Road to S.H. No. 13	Kerbside lanes	Department		316,8
wood	2	Intersection with Burwood Road	Widening and realignment			42,5
nden	2	Bridge over Nepean River at Camden	Reinforced concrete substructure	do		72,5
rpool	2	Warwick Farm Overbridge to Cabramatta Creek	Kerb and gutter	• •		32,8 9.7
o	2	Water Board Pipe-line to Camden	Resheeting	00		

† For additional expenditure see Appendix No. 9A.

Appendix No. 7—continued

COMMONWEALTH AID ROADS FUND-continued

SUMMARY OF EXPENDITURE FROM DEPARTMENT'S FUNDS ON CONSTRUCTION AND RECONSTRUCTION WORKS-continued

(A) COUNTY OF CUMBERLAND AREA—continued

(ii) State Highways-continued

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Construct Authori		Amount
	[\$
		GREAT WESTE	RN HIGHWAY			
Blacktown	1 5	1 19.98m. to 21.75m. west of Sydney	Deviation	Department		80,891
Do	5	21.57m, to 23.3m, west of Sydney	Reconstruction	do		475,420
Do	5	Eastern Creek Bridge to Chatsworth Road	do	do		416,822
Do	5	Eastern Creek	Steel and concrete bridge	do		80,125
Penrith	5	Intersection with Henry Street East, Penrith	Reconstruction	do		50,920
Do	5	Bound Creek, 30.1m. west of Sydney	Widening to four lanes	do		62,797
Do	5	Evans Street to Henry Street West	Asphaltic concrete surfacing	do		21,584
Do	5	Intersection with Henry Street, Penrith	Reconstruction	do		140,081
Do	5	Quarry Hill, 31m. west of Sydney	Dual carriageway	do		316,777
Do	5	Chatsworth Road to Bennett Road	Reconstruction	do		232,366
Do	5	Ropes Creek, 27.4m. west of Sydney	Prestressed concrete bridge	do do		18,529
						\$1,896,312
		PACIFIC +	HIGHWAY		-	
Hornsby	10	Leonard Street to Edgeworth David Avenue	Widening	Department		23,479
					-	\$23,479
					L	
		STATE HIGH	WAY No. 13			
Bankstown and Fairfield	13	Railway Overbridge at Villawood	Approaches	Department		403.977
Bankstown	13	Villawood	Railway overbridge	do		140,934
Baulkham Hills	13	Carlingford Road Overbridge to Felton Road	Reconstruction	do		34,438
Hornsby	13	Thompson Corner to Beecroit Road	Asphaltic concreting	do		38,840
Do	13	Carlingford Road to Murray Farm Road	Kerbside lanes	do		181,303
Parramatta	1 13	Macquarie Street to Lennox Bridge	Drainage	do		44,730
Do	13	Evans Road to Carlingford Overbridge		do		47,295
					ļ-	\$891,517
			Total — State Highways			\$4,016,945
					1	
		(iii) Ordinary	Main Roads			
Bankstown	167	Victoria Street to M.R. No. 508	Reconstruction and widening	Department		38,676
Bankstown, Strathfield and Canterbury	315 and 549	Margaret Street to Walsh Avenue, South Enfield	Kerb and gutter	do		9,973
Baulkham Hills Baulkham Hills and	160	3.1m. to 4.74m. north of Rogans Hill	Reconstruction and widening	Council		30,680
Parramatta	· 184	Barney Street to Briens Road	Widening of carriageway	Department		161,789
Baulkham Hills	184	Intersection with Annangrove Road	Improvement	do do		6,660
Do	184	Coronation Street to Palace Road	Four lanes Reconstruction and widening	do	••••••	57,856 98,322
Do	184	President Avenue to Acres Road, Kellyville M.R. No. 160 to Coronation Street	Kerbside lanes	do	••••••	6.227
Do	184 170	Over Mill Pond Creek	Reinforced concrete bridge	do do	••••••	19,944
Botany Do	170	McIntosh Street to Mill Pond Road	Widening	do do		51,470†
Dc Do	170	McFadyen Street to Cranbrook Street	Reconstruction	do		35,113
Botany and Randwick	593	Dowling Street to Dransfield Avenue	do	do		1.085.377+
Randwick and South Sydney	593	Over Epsom Road	Reinforced concrete bridge	do		12,726†
		+ For additional expanditu				

89

† For additional expenditure see Appendix No. 8A.

Appendix No. 7-continued

COMMONWEALTH AID ROADS FUND-continued

SUMMARY OF EXPENDITURE FROM DEPARTMENT'S FUNDS ON CONSTRUCTION AND RECONSTRUCTION WORKS-continued

(A) COUNTY OF CUMBERLAND AREA—continued

(iii) Ordinary Main Roads-continued

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount
			· · · · · · · · · · · · · · · · · · ·	-	\$
any	593	Access to the Lakes Golf Club	Reinforced concrete subway	Department]	70,7
	344	South Dowling Street extension to Cornish Circle	Dual carriageway	do	40,5
	344	Botany Road to Dransfield Avenue	Reconstruction	do	58,7
	344	Page Street to Baker Street	do	Council	5.
	593	South Bound Carriageway over Mill Pond Creek	Reinforced concrete bridge	Department	2,
pbelltown	177	Spring Creek, 11.6m. south of S.H. No. 2	Box culvert and approaches	do	29,
ord	589	M.R. No. 200 to M.R. No. 315	Reconstruction	Council	20.
nmovne and Hunters Hill	165	Parramatta River at Gladesville	Prestressed concrete arch bridge	Department	98,
nmoyne and Leichhardt	165	Bridge over Iron Cove	Widening	do	33.
ield	515	Intersection of Meadows Road	Widening and drainage	do	7.
	534	Hume Highway to Cabramatta Shopping Centre	Widening and strengthening	Council	. 10.
	534	Cabramatta	Overbridge	Department	66,
isby	139	Epping Railway Station	Pedestrian overbridge	do	8.
	139	Epping Railway Overbridge	Widening of approaches	do	107.
0	587	Bridge Road to Asquith	Reconstruction	do	232.
stville	315	Stoney Creek Road to Forest Road	Widening and reconstruction	Council	11.
ring-gai	162	Yanko Road to Kendall Street, Pymble	Reconstruction and widening	Department	374.
0	162	Putarri Avenue to Killeaton Street	Reconstruction and widening	do	197.
0	328	Ferncourt Avenue to Rowe Street, Roseville	Dual carriageway	do	28.
e Cove	166	Burns Bay Road to Epping Road	Reconstruction	do	138.
0	373	Near Cumberland Avenue	Restoration of slip	do	20.
o	373	Lane Cove River to Moore Street	Widening	do	30,
rpool	167	0m. to 1.8m. from Milperra Bridge	Dual carriageway	do	10.
sman	164	Glover Street to Paling Street	Widening	do	15.
00	164	Clifford Street to Bickell Road	Reconstruction and widening	do	271.
ramatta	139	Epping	Overbridge	do	64.
rramatta and Ryde	158	Victoria Road to Pennant Hills Road	Reconstruction, bitumen surfacing and surface drainage	do	21.
ramatta	165	Grandview Street, Rydalmere,	Improvement of drainage	do	13.
00	574	Kirby Street, Dundas	Reconstruction and pavement widening	do	102.
rith	154	Jamison Street to Barber Avenue	Reconstruction	do	273.
le	139	Blaxland Road and Rowe Street	Channelisation	Council	11.
00	162	Epping Road to Fontency Road	Dual carriageway	Department	3.
de and Ku-ring-gai	162	Andrew Avenue to Fontenoy Road	Reconstruction, widening and deviation	do	7.
le	200	Junction Street to Victoria Road	Asphaltic concreting	do	. 14.
00	373	Intersection with M.R. No. 191	Channelisation	do	3.
Do	373	Bridge over Shrimptons Creek at Marsfield	Widening	do	94.
Do	373	Paul Street to Vimiera Road	Reconstruction	do	377.
iherland	227	Bellingara Road to Parraweena Road	Widening and reconstruction	Council	7.
uth Sydney	170	Intersection with O'Riordan Street and Wyndham Street	Channelisation	do	3.
dney and South Sydney	593	Flinders Street to Todman Avenue	Widening	Department	732.
iney	593	Napier & South Dowling Streets, Paddington	Reconstruction	Council	4.
rringah	162	Alan Street to Pittwater Road, Mona Vale	do	Department	14.
0	164	Bassett Street to Bardo Road, Newport	Reconstruction and widening	do	192
0	164	Namona Street to Elimatta Road, Mona Vale	Reconstruction	do	413
0	328	Over Forest Way	Pedestrian overbridge	do	40.
0	530	Surfers Parade to Wyuna Avenue, Harbord	Construction	Council	7.
0	530	Western Side Pitt Road to Abbott Road, Curl Curl	Drainage, kerb and gutter	do	2.
00	530	Lawrence Street to Surfers Parade	Reconstruction and sealing of side strips	do	5.
lloughby	599	Sailors Bay Road to Babbage Road	Reconstruction and widening	Department	660.
ndsor	184	Intersection with Macquarie and Bridge Streets	do	do	83.
ollahra	172	Northern Side Queen Street to Grosvenor Street, Bondi Junction	Construction	Council	3.
Do	173	North from Sassafras Lane on western side	Reconstruction of road shoulders		3.
· · · · · · · · · · · · · · · · · · ·		i Horti itoni oussanas Lane on western side		· · · · · · · · · · · · · · · · · · ·	υ,

69

† For additional expenditure see Appendix No. 8.

Appendix No. 7-continued

COMMONWEALTH AID ROADS FUND-continued

SUMMARY OF EXPENDITURE FROM DEPARTMENT'S FUNDS ON CONSTRUCTION AND RECONSTRUCTION WORKS-continued

(A) COUNTY OF CUMBERLAND AREA—continued

(iv) Secondary Roads

		1			
City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount
		-			\$
Ashfield	2056 2068 2084 2013 2033 2070 2070 2070 2070 2070 2070	S.H. No. 5 to Dobroyd Parade Railway Underpass to Tower Street 0.64m. west of Katherin Street Great North Road to Henley Marine Drive Luke Street to Mary Street Between William Edward Street and Warraroon Road, stage 2 Gore Creek to Northwood Road, Northwood North Side between Canberra Avenue and Anglo Lane Between Burns Bay Road and Bridge Street River Road. From Baronia Street to Canberra Avenue Malabar Junction	Reconstruction and widening Reconstruction of pavement Reconstruction and bitumen surfacing Strengthening kerbside lanes Reconstruction and widening Widening and realignment Reconstruction Reconstruction Improvement	Department Council	119,936 5,142† 15,000 7,000 6,495 16,993 10,845 4,552 16,576 6,000 10,000
			Total — Secondary Roads		\$218,529
		(v) Roads other t	han Main Roads	'	
Bankstown Do Bankstown and Sutherland Botany Hunters Hill Rockdale		Railway Overbridge, Stacey Street, Bankstown Stacey Street, Bankstown Bridge over Georges River at Alfords Point Amelia Street Underpass to Botany Road Nemba Street to Church Street Cooks River at Marsh Street	Approaches Railway overbridge Approaches Reconstruction and widening Access Road Prestressed concrete bridge	Department	477,844 292,278 312,124 106,037‡ 60,200 256,777†
			Total — Roads other than Main Roa	ds	\$1,505,260
		(B) COUNTRY U	IRRAN ARFAS	1	·
		(i) Expre			
		SOUTHERN EX	KPRESSWAY		
Wollongong	X6 X6 X6 X6 X6 X6 X6	0.19m. to 0.59m. south of M.R. No. 513 Byarong Avenue, 2.5m. south of Wollongong Gladstone Avenue to M.R. No. 295 Mt. Keira Bridge to Gladstone Avenue Five Islands Road to Northcliffe Drive Porter Street Porter Street extension	Additional lane Temporary pedestrian overbridge Dual carriageway do Construction Prestressed concrete bridge Dual carriageway	Department	18,737 4,981 10,482 62,947 194,956 4,462 4,029*
				-	\$300,594
			Total — Expressways		\$300,594
		(ii) State I	lighways	-	
Wollongong	1		HGHWAY Kerbside lanes Improvement	Council Department	4,000 94,851
				-	\$98,851
		PACIFIC H	IGHWAY	۱ <u>ـ</u>	
Lake Macquarie Do Do	10 10 10	Robert Street to Ada Street, South Belmont South Street to Oakdale Road, South Gateshead 5.92m. to 6.93m. south of Newcastle	Dual carriageway including approaches to Cold Tea Creek Dual carriageway Reconstruction and bitumen surfacing	Department do do	34,263 40,425 548,641

Appendix No. 7—continued

COMMONWEALTH AID ROADS FUND—continued

SUMMARY OF EXPENDITURE FROM DEPARTMENT'S FUNDS ON CONSTRUCTION AND RECONSTRUCTION WORKS-continued

(B) COUNTRY URBAN AREAS—continued

(ii) State Highways--continued

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount
· · · · · · · · · · · · · · · · · · ·					\$
		PACIFIC HIGHV	VAY—continued		
Newcastle	10	Cottage Creek	Reinforced concrete bridge		9,078
Do	10 10	Mund Street to Wallsend Road Intersection with Boundary Street, Tweed Heads	Reconstruction Channelisation	do Department	140,000 50,437
				—	\$822,844
			Total — State Highways		\$921,695
				I	
		(iii) Trunk and Ore	dinary Main Roads		
Camden	259	1.24m. from S.H. No. 2	Improvement and strengthening	Council	1,000
/ollongong Do	295 295	Springhill Road to Glastonbury Avenue Intersection with M.R. No. 568	Widening Channelisation	do do	9,000 3,454
Do Do	295	Glastonbury Avenue to M.R. No. 568, Cringilla	Reconstruction	do	18,000
Do	522	Intersection with Northcliffe Drive	Improvement	do	11,794
Do	522	lake Illawarra at Windang	Duplication of bridge	Department	183
Do	582 217	Church Street to Corrimal Street Cross Roads to Cockle Creek Railway Station	Reconstruction	Council	10,970 19,582
_ake Macquarie Do	217	Cross Roads at Glendale	Reconstruction and bitumen surfacing		7,000
Do	and 223 217	Bridge over Fennells Bay, north of Toronto	Appro20hoa		37,193
Do	527	Winding Creek, Cardiff	Approaches Reinforced concrete bridge	do	7,383
lewcastle	82	Turton Road to Broadmeadow Road	Reconstruction		16,560
Do	316	Selwyn Street	Railway overbridge		19,061
Do Do	316 326	George Street to Bull Street	Industrial route		255,285 41,362
Do Shellharbour	522	Highfields Street to Bull Street	Peconstruction		19,734
			Total — Trunk and Ordinary Main F		\$477,561
			· · · · ·	I	
		(C) COUNTRY	RURAL AREAS		
		(i) State	Highways		
		PRINCE'S			
Imlay	1	4.91m. to 8.21m. south of Eden	Construction	Department	392,514
					\$392,514
· -	1 2	HUME H 17.8m. to 20m. south west of Yass	IGHWAT	Department	288.935
Goodradiabee		White Horse Bridge, 13.88m. to 14.96m. south of Picton	Improvement to southern approach	do	309,431
	1 2	40.7m to 50 Am pourth of Mitterson	Reconstruction	do	414,547
Mittagong Mulwaree	2	1 46.7 m. to 50.4 m. south of Mittagong			
Mittagong Mulwaree		48.7m. to 50.4m. south of Mittagong 46m. to 47m. south of Sydney	do	.] do	495,122
Mittagong Mulwaree	2	46.7m. to 50.4m. south of Mittagong	do	.] do	495,122 \$1,508,035
Vittagong Vulwaree	2	46m. to 47m. south of Sydney	do	. do _	
Goodradigbee	2	46m. to 47m. south of Sydney	do		\$1,508,035
Mittagong Mulwaree	2	46m. to 47m. south of Sydney	do TAINS HIGHWAY Reconstruction and bitumen surfacing	. Department	

Appendix No. 7-continued

COMMONWEALTH AID ROADS FUND-continued

SUMMARY OF EXPENDITURE FROM DEPARTMENT'S FUNDS ON CONSTRUCTION AND RECONSTRUCTION WORKS-continued

(C) COUNTRY RURAL AREAS—continued

(i) State Highways---continued

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Construct Authori		Amount
						\$
		SNOWY MOUNTAINS H				
umut Do	4 4	27.1m. to 39.4m. east of Tumut Blowering Dam	Reconstruction and bitumen surfacing	Department do		380,681 150,000
					[\$1,215,659
		GREAT WESTER			I-	
ron	5	24.4m. to 27.7m. west of Lithgow	Deviation	Department	[342,564
					-	\$342,564
		MID WESTERN			-1	
ndhurst I	6	2.5m. to 8m. west of Blayney	Reconstruction and bitumen surfacing	Department		232,224
						\$232,224
		MITCHELL F	HIGHWAY		1-	
nobolas	7	28.8m, to 31.4m, west of Bathurst 26.7m, to 31.6m, west of Bathurst	Reconstruction and bitumen surfacing Reconstruction	Department do		166,122
Ibragar	7	19m. to 24.4m. west of Wellington	Reconstruction and pavement widening	do		146,235 139,477
					ſ	\$451,834
		BARRIER H	IIGHWAY		1-	
entral Darling	8 8	0m. to 7m. east of Wilcannia	Reconstruction and bitumen surfacingdo	Department do		193,533
	-					94,900† \$288,433
					. ļ_	\$200,433
yra	9	NEW ENGLAND		Department		000.007
marang	9	11.18m. to 13.93m. north of Newcastle	Deviation	do		280,965 345,718
,	U U		reconstruction and branen surfacing	do		154,778
					_	\$781,461
the Upphane 1	10	PACIFIC HI				
offs Harbour Do	10 10	3.4m. to 4.8m. north of Coffs Harbour 9.2m. to 12.2m. north of Coffs Harbour	Reconstruction	Department do		143,648 201,135
reed	10 10	5.97m. to 6.98m. south of Murwillumbah 10.5m. to 13.5m. south of Woodburn	Climbing lanes Reconstruction and bitumen surfacing	do		145,796 177,101
					-	\$667,680
		OXLEY HIG			1	
stings	11	38.5m. to 43.38m. west of Port Macquarie		Department		360.854
		-			-	\$360,854
						\$300,654

COMMONWEALTH AID ROADS FUND-continued

SUMMARY OF EXPENDITURE FROM DEPARTMENT'S FUNDS ON CONSTRUCTION AND RECONSTRUCTION WORKS-continued

(C) COUNTRY RURAL AREAS—continued

(i) State Highways—continued

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount
		-		j	\$
		STURT H	IGHWAY		
Kyeamba Do	14 14	17.26m. to 18.48m. west of S.H. No. 2		Department do	193,262 179,038
				-	\$372,300
		BRUXNER	HIGHWAY	۲ <u>ــــــــــــــــــــــــــــــــــــ</u>	
Ashford	16	5m. to 17.9m. west of Bonshaw	Deviation	Department	323,403
Tenterfield Shire Do	16 16	80m. to 85m. west of Ballina	Reconstruction and bitumen surfacing	do do	234,199 116,250
					\$673,852
		NEWELL H	IIGHWAY		
Boolooroo Gilgandra	17 17	39m. to 47m. north of Moree 32m. to 39m. north of Dubbo	Reconstruction and bitumen surfacing Reconstruction	Department do	301,297 151,132
				-	\$452,429
		COBB HI	GHWAY		
Hay Murray	21 21	24m. to 46m. north of Hay	Reconstruction and bitumen surfacing Reconstruction, widening and bitumen surfacing	Department	206,425 189,785
				-	\$396,210
		ILLAWARRA	HIGHWAY		
Shellharbour Wingecarribee	25 25	7.5m. to 12.5m. west of S.H. No. 1 Intersection with M.R. No. 265, 5m, to 6.5m. east of Moss Vale	Improvement and provision of climbing lane Reconstruction, bitumen surfacing and improvement	Department do	168.809 455,142
				-	\$623,951
			Total — State Highways		\$8,760,000
		(ii) Trunk and Ord	inary Main Roads		
Bibbenluke	91	6.55m. to 8.41m. east of Bombala	Reconstruction and bitumen surfacing	[Council	9,486†
Carrathool	80	17.68m. to 22.5m. south of Hillston	do	do	99,400 50,330
Copmanhurst Cudgegong	151 233	Alumny Creek, 8.05m. from Grafton Goolina Creek, 11.9m. to 18.9m. west of Gulgong	Prestressed concrete bridge Reinforced concrete bridge and approaches	do	51,000
Denman	213	11.6m, to 14.1m. from Jerry's Plains	Reconstruction and pavement widening	do	57,423
Dumaresq	74	43.6m. to 45.7m. east of Armidate	do	do	95,250
Greater Cessnock	181	2m. south of Wollambi to M.R. No. 223	do	do	55,250
Kyogle	83	Fairymount Creek, 17.9m. north of Casino	Prestressed concrete bridge and approaches	do	85,636
Maitland Manning	104 75	Bridge over Hunter River at Raymond Terrace 26.53m. to 29.57m. west of Kempsey	Western approaches Reconstruction and bitumen surfacing	do do	68,000 66,000
Namoi	343	0.8m, to 6.4m, west of Wee Waa	do	do	92,023
Narraburra	398	Duck Creek, 11m. east of Barmedman	Reinforced concrete bridge	do	47,800
Newcastle	108	North Arm of Hunter River	do	Department	1,421,993
Port Stephens	104	New Bridge over Hunter River at Raymond Terrace	Eastern approaches	Council	55,000
Do	517 54	M.R. No. 108 to 6.8m. east of S.H. No. 10	Reconstruction and bitumen surfacing	do	49,667 50,000
Rylstone	04	2.8m. to 4.5m. south of liford	Reconstruction, gravelling and bitumen	do	30,000

† For additional expenditure see Appendix No. 9.

COMMONWEALTH AID ROADS FUND—continued

SUMMARY OF EXPENDITURE FROM DEPARTMENT'S FUNDS ON CONSTRUCTION AND RECONSTRUCTION WORKS-continued

(C) COUNTRY RURAL AREAS--continued

(ii) Trunk and Ordinary Main Roads-continued

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount
Stroud Terania Tumut Turon Wakool Waugoola	111 65 280 54 319 56	21.4m. to 24.8m. from S.H. No. 10 Bexhill to Clunes 7m. to 9.51m. south of Adelong 26.5m. to 29.75m. north of Bathurst Edward River at Moulamein Bridge over Back Creek	Reconstruction and bitumen surfacing Realignment and bitumen surfacing do Reconstruction and bitumen surfacing Reinforced concrete bridge Approaches Total — Trunk and Ordinary Main Roa	do do do do do	\$ 86,680 90,460 60,700 109,000 79,200 51,695 \$2,831,993

(iii) Developmental Roads

			(, = • • • • • • • • •				
	Blue Mountains	1195	Pulpit Hill Creek, 5.4m. from Blackheath	Reinforced concrete bridge	Council		32,000
	Central Darling	3215	New Bridge Crossings at Paroo and Rosedale Channels	Construction	do		30,000
	Cockburn	1032	14.6m. to 15.8m. from Limbri	do	do		58,000
	Coolah	1304	4.5m. to 10m. east of T.R. No. 55	Reconstruction and bitumen surfacing	do		113,500
	Do	1304	15.3m, to 18m. east of T.R. No. 55	do	do	·····	146,000
	Do	1304	10m. to 15m. east of T.R. No. 55	Reconstruction	do		22,664†
	Do	1304	Cainbil Creek, 12.2m. east of T.R. No. 55	Reinforced concrete bridge	do		31,667
	Do	1304	10m. to 15.3m. east of T.R. No. 55	Gravelling and bitumen surfacing	do		97,707
•	Coonamble	1269	Selected lengths within the Shire	Construction	do		30,854
	Copmanhurst	1179	16.66m. to 18.69m. north of M.R. No. 150	do	do		59,200
	Dungog	3163	8m. to 9m. north of Dungog G.P.O.	do	do		56,288
	Gloucester	1150	21m. to 21.8m. north of Gloucester	Deviation	do	·····	28,991
	Gundurimba	1312	From Tuckean Island to Cedar Island	Construction	do		23,636
	Manilla	3208	7.4m. to 9.2m. from Barraba Shire Boundary	do	do		40,000
	Monaro	1268	Jinden Crk. to Big Badja, Sect. 27m. to 28m. from Kybeyan River	do	do		31,701
	Tallaganda	1268	47m. to 48.5m. from Braidwood	do	do		65.000
	Tamarang	3210	Quirindi Creek, 0.5m. north of M.R. No. 126	Concrete culvert	do	•••••	22,000
	Tenterfield Shire	3093	Hootons Road	Construction	do		37,700
	Tumbarumba	1171	Spring Creek, south of M.R. No. 281	Reinforced concrete box culvert	do		42,654
	Tweed	3172	Tyalgum and Hopping Dicks Creeks	Construction of bridge	do	·····	31,621
	Ulmarra	1274	5.5m. to 7m. south of Tucabia	Construction	do		25,000
	Walcha	1317	13.5m. south of Walcha, towards Topdale	do Olastica formina and successful	do	•••••	55,590
	Wentworth	1296	Pooncarie, Central Darling Shire Boundary	Clearing, forming and gravelling	do		40,000
	Yallaroi	1270	l 13.3m, to 15.4m, north west of Warialda	Construction	do	•••••	24,630

74

Total — Developmental Roads

\$1,146,403

SUMMARY		
	\$	\$
Expressways	5,418,004	
State Highways	13,698,640	
Trunk and Ordinary Main Roads	9,979,164	
Secondary Roads	218,529	
Roads other than Main Roads	1,505,260	
Developmental Roads	1,146,403	
		31,966,000
Survey, Design, Supervision, Planning, etc.		1,074,053
Maintenance and Construction of Unclassified Roads in the Western Division		202,567
Total as shown in Receipts and Payments Statements Appendix No. 1		\$33,242,620

† For additional expenditure see Appendix No. 10.

Appendix No. 8

COUNTY OF CUMBERLAND MAIN ROADS FUND-GENERAL PURPOSES

SUMMARY OF EXPENDITURE FROM DEPARTMENT'S FUNDS ON CONSTRUCTION AND RECONSTRUCTION WORKS

(i) Expressways

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount
					\$
		WESTERN EX	PRESSWAY		
enrith	X4		j Eastern approach	Department	12,86
					\$12.86
			Total — Expressways		\$12,86
			Total — Expressways		
		(ii) State I PRINCE'S I			
ollongong	1	28.57m, to 28.85m, south of Sydney	Extension of climbing lane	Department	24
Do	1	33.57m. to 34.49m. south of Sydney	Realignment	do	7
Do	1	Waterfall Deviation, 27.27m. to 30m. south of Sydney	Resheeting asphaltic concrete	do	12,83
Do	. 1	33.5m. to 33.7m. south of Sydney Bulli Pass to M.R. No. 177	Reconstruction	do do	3,58 25,52
Do	. i	32.16m. to 33.57m. south of Sydney	Bitumen surfacing	do	20,0
ockdale	1	Intersection with Kyle Street	Improvement	do	3,7
itherland and Wollongong	1	26.8m. to 27.74m. south of Sydney	Realignment	do	3
therland	1	Holt Road to Acacia Road	Dual carriageway	do	16,4
					\$62,7
hfield	2	HUME HIG	GHWAY Reconstruction	Department	2.2
inkstown	2	Intersection with Chester Hill Road	Kerb and gutter and sidestrips	do	8
airfield	2	Prospect Creek to Cabramatta Creek	Kerbside lanes	do	1,0
Do	2	Knight Street to Cabramatta Road	Widening	do	1,30
verpool	2 2	Scott Street to Pine Street	Reconstruction and widening	do do	5,5
Do	2	Marsh Parade to Casula Road Pedestrian Subway at Warwick Farm	Construction of sidestrips Drainage		1,20
Do	2	Scott Street to Elizabeth Drive	Resheeting	do do	3.03
Do	2	Intersection with M.R. No. 515 and S.R. No. 2071	Channelisation	do	29,9
Do	2	Railway Overbridge at Warwick Farm	Approaches	do	
rathfieldl	2	Cooks River to S.R. No. 2087	Kerbside lane	do	3,84
					\$44,4
	_	GREAT WESTER			
uburn	5 5	Railway Overbridge to King Avenue King Avenue to Haslams Creek	Drainage and pavement reconstruction Reconstruction and drainage of failed pavement	do	36,01 85.68
Do	5	Intersection with Birnie Avenue	Improvement	do Council	00,00
acktown	5	Eastern Creek, 23.6m. west of Sydney	Drainage improvement	Department	7,1
Do	5	Intersection of Mt. Druitt Road	Passing lane	do	7
ue Mountains	5	Level Crossing at Katoomba	Improvement	do	20,6
Do Do	5	Springwood Bullabura Blaxland Lawron and Hazalbrack	Deviation	do	9,10
Do	5	Bullaburra, Blaxland, Lawson and Hazelbrook 2m. to 2.5m. west of Katoomba	Kerbside lanes in built-up areas Climbing lane	do do	5 7.9
Do	š	3.46m. to 3.70m. west of Katoomba	Reconstruction and bitumen surfacing	do do	23,1
Do	5	Blaxiand Railway Station	Filling of cutting	do	20,1
Do	5	11.3m. to 12m. west of Katoomba	Climbing lane	do	80,52
	5	17.4m. to 30.5m. west of Penrith-3.8m. to 8.7m. west of Katoomba	Reshaping and strengthening of selected sections	do	45,6
Do					
piroyd	5	Bridge Street to Station Street, Wentworthville	Reconstruction	do	43,2
	5 5 5	Bridge Street to Station Street, Wentworthville Pendle Way to Hawkesbury Road No. 559 S.H. No. 5 to Culvert near Hackney Street, Pendle Hill	Reconstruction Median adjustment Piping of open drain	do do do	43,2

COUNTY OF CUMBERLAND MAIN ROADS FUND-GENERAL PURPOSES-continued

SUMMARY OF EXPENDITURE FROM DEPARTMENT'S FUNDS ON CONSTRUCTION AND RECONSTRUCTION WORKS-continued

(ii) State Highways—continued

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount
					\$
		GREAT WESTERN	HIGHWAYcontinued		
arramatta	5	Intersection with S.R. No. 2049			1,075
Do	5 5	Church Street to Steele Street, Parramatta			3,898
Penrith	5	Emu Plains	. Kerb and guttering	Council	1,442
					\$369,008
		PACIFIC	HIGHWAY	•	
ornsby	10	Asquith to Mt. Ku-ring-gai		Department	10.089
Do	10	Western kerbside lane near Judith Street, Mt. Colah	, Bitumen surfacing	do	2,663
Do	10	Mt. Ku-ring-gai to Berowra	. Reconstruction and widening	do	118,791
Do	10	Mt. Colah Railway Station	. Kerb and gutter	do	1,606
	10 10	At Asquith			12,728
J-ring-gai Do	10	Ryde Road to Livingstone Avenue, Pymble		do do	1,393 2,279
ane Cove	10	Intersection with Greenwich Road, St. Leonards	Channelisation	do	2,2/5
illoughby	tõ	Intersection with Mowbray Road	do		34
					\$149,974
		STATE HIG	HWAY No. 13	1	
ornsby and Baulkham Hills arramatta, Bankstown and	13	Thompsons Corner to Carlingford Road		Department	1,857
airfield	13	Chiltern Avenue to Hume Highway		do	19.333
arramatta	13	Railway Monument Park at Granville Subway	Landscaping		18
Do	13	Merrylands Road to Parramatta Road	Dual carriageway	do	25,29
arramatta, Bankstown and irfield	13	Sydney Water Supply Main	Prestressed concrete bridge	do	74
arramatta	13	Railway Overbridge at Carlingford to Tintern Avenue	Widening		23,97
Do	13	M.R. No. 158 at Mobbs Hill		do do	4,34
					\$75,07
			Total — State Highways		\$701,296
		(iii) Ordinar	v Main Roads	I	
uburn	190	Bridge Street to Lewis Street		Council	31
Do	190	Parramatta Road to Olympic Drive	do		5
Do	190	S.H. No. 5 to Wyatt Park	. do	do	1,26
Do	190	Wyatt Park Deviation to Parramatta Road	. Construction and widening	do	25
Do	532	Clyde Street to Adderly Street			13,94
ankstown and Liverpool	167 167	Georges River at Milperra Intersection with The River Road and Turvey Street	Prestressed concrete bridge		5
ankstown Do	167	Intersection with M.R. No. 508			2,23
Do	190	Opposite The Mall, Bankstown		do Council	3,050
Do	190	Eastern side from Rickard Road to The Mall, Bankstown			14
Do	508	Intersection with Carinya Road			189
aulkham Hills	160	Intersection with Excelsior Avenue	Drainage works	Council	2.320
Do	160	Near Oakhill College	, Drainage	do	293
Do	160	Excelsior Avenue, Castle Hill	Relocation of electric light pole	do	665
lacktown	537	Spencer Street to Railway Level Crossing at Rooty Hill	Drainage	do	14
Do	537	S.H. No. 5 to Mavis Street, Rooty Hill		do	28,675
Do	537	Mavis Street to Church Street			1,031
Do	546	Riverstone Railway Level Crossing	. Installation of F type signals	do	816
Do	546	I Riverstone Railway Level Crossing	. do	Department	30,74

COUNTY OF CUMBERLAND MAIN ROADS FUND-GENERAL PURPOSES----continued

SUMMARY OF EXPENDITURE FROM DEPARTMENT'S FUNDS ON CONSTRUCTION AND RECONSTRUCTION WORKS-continued

(iii) Ordinary Main Roads-continued

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount
					\$
e Mountains	184	28.7m. to 29.8m. west of Windsor	Construction of climbing lane	Department	43,8
00	184	36m. to 41m. west of Windsor	Reconstruction and improvement to drainage	do	28,1
any	183	Near Florence Avenue	Pedestrian underpass	do	12,0
any and Randwick	183	Over M.R. No. 593	Reinforced concrete bridge	do	22,0
any	194	Intersection with Botany Road and Mill Pond Road, Mascot	Re-channelisation	do	1,1
o	344	Bridge over Mill Pond Creek	Widening	do	29,8
o	593	Over King Street	Reinforced concrete bridge	do	4,2
den	178	Kenny Hill, 1.8m, to 2.17m, west of Campbelltown	Climbing lane	do	2,6
pbelltown	177	8.43m. to 8.55m. east of S.H. No. 2	Reconstruction and bitumen surfacing	do	5
terbury	167	Intersection with Punchbowl Road	Improvement	do	1.
and Windsor	184	Bridge over Hawkesbury River at North Richmond	Widening	do	34.
cord	200	Intersection with Cavell Avenue	do	Council	4
D	200	Intersection with Killoola Street	Channelising	do	
nmoyne	165 .	Approaches to Iron Cove Bridge	Widening, including deviation of Henley Marine Drive	Department	11.0
nmoyne and Hunters Hill	165	Old Bridge over Parramatta River at Gladesville	Demolition	do	2.
isby	139	Albert Street	Drainage	Council	Ĩ.
	548	0.3m. to 1.4m. west of Galston	Deviation and bitumen surfacing	do	52
	548	Mid Dural Road		do	J2.
	166		Relocation of power poles	do	
ters Hill	199	Memba Street to Church Street	Kerbing and guttering	Department	
arah	366	Intersection of Ritchie and Darley Streets	Extension of median	do	2.
ing-gai		Intersection with S.R. No. 2043	Improvement	Council	2,
nhardt	165	Hornsey Street to Quirk Street	Adjustments to median	Department	
	165	Evans Street, Rozelle	Elimination of median	do	
rpool	512	Church Road to Artillery Crescent	Passing lanes	do	11.
rpool and Fairfield	515	Mt. Pritchard	Climbing lane	do	16,
rpool	515	Opposite Nos. 597-603 Elizabeth Drive	Reconstruction	Council	
ly	159	Parkview Road to Belgrave Street	Widening	do	1,
o	164	Near Spit Bridge	Bus starting bay	do	
0	164	Near Avona Crescent, Seaforth	Reconstruction) do)	
man	164	Ida Street to Pearl Bay Road	Restoration of collapsed roadway	Department	1,
rith	154	2m. to 4.6m. south of Maxwell Street, Kingswood	Reconstruction	do	
o	155	5.2m. to 11.8m. north of S.H. No. 5	Reconstruction, widening and bitumen surfacing	Council	
0	155	11.6m. north of S.H. No. 5	Multi-cell R.C. pipe culvert	do	2,
0	536	Sansbury Street, St. Marys	Drainage	do	
0	536	Rutland Street to John Street	Kerb and gutter	do	
dwick	593	Access to The Australian Golf Club	Reinforced concrete bridge	Department	12,
kdale	168	Intersection with Harrow and Bexley Roads	Traffic signal installation adjustments	Council	1,
o	168	Intersection with Wollongong Road	Improvement	do	
o	194	Intersection with Bestic Street	Right-turn lane	Department	
е	139	Blaxland Road to Lane Cove Road	Reconstruction	do	172
0	162	Epping Road to De Burghs Bridge approaches	do	Council	
	165	Weste:n Carriageway near Falconer Street	Restoration of failed pavement	Department	6
b	165	Intersection with Cressy Road, Ryde	Median adjustment	do	
	165	0.05m. to 0.25m, east of Marsden Road	Asphaltic concreting	do	9.
·····	165	Arras Parade to Charles Street	Reconstruction of failed pavement	do	36
	165	Intersection with Pittwater Road, Gladesville	Median adjustment		00
	165	Ryedale Road to West Parade	Asohaltic concreting	do	3
h Sydney	170	Intersection with O'Riordan Street (S.R. No. 2008)	Adjustments to traffic signals	Council	•
erland	199	Intersection M.R. No. 227, The Kingsway	Channelisation	do	. 4
	393	Causeway across Port Hacking River near Waterfall	Flocd-free deviation	Department	30
	393	Opposite National Park Railway Station	Widening		7
	165				· ·
ney	165	Opposite Miller Street, Pyrmont	Kerb and gutter	Council	
	170	Intersection with Bowinan Street, Pyrmont	Improvement	do	5
th Sydney	170	Boundary Street, Redfern to Gardeners Road, Alexandria	Restoration of abardoned tramway area	do	5.
ney		Bayswater Road	Adjustments to traffic signals	do	
ney and South Sydney	192 330	Cahill Expressway Control Switchboard City Road to Chippen Street, Chippendale	Alterations Reconstruction and bitumen surfacing	do	
		L LUV BORD TO COUDED STREET Chippendale		do	

* C.edit.

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† For additional expenditure see Append.x No. 8A.

COUNTY OF CUMBERLAND MAIN ROADS FUND-GENERAL PURPOSES-continued

SUMMARY OF EXPENDITURE FROM DEPARTMENT'S FUNDS ON CONSTRUCTION AND RECONSTRUCTION WORKS--continued

(iii) Ordinary Main Roads-continued

City, Municipal or Shire Area	Rcad No.	Location of Work	Class of Construction	Constructing Authority	Amount
		-			\$
dney	592	Unloading Ramp to Eastern Distributor	Excavation	Department	34,260
arringah	159	Riverview Parade to Oliver Street, Queenscliff	Widening	Council	10,146
Do	164	Warringah Mall Frontage	Kerbside jane	Department	1861
Do	164	Elimatta Road to Rowan Street, Mona Vale	Reconstruction and widening	do	3,019
Do	164	Bassett Street to Waterview Street, Mona Vale	Excavate and widen footpath	do	_ 24
Do	174	McCarrs Creek Road	Provision of bus turning facilities	Council	2,140
0	328	Intersection with Forest Way, Frenchs Forest	Pedestrian overbridge approaches	Department	1,191
Do	328	Intersection with Ferguson Street and Starkey Street	Channelisation	do	4,062
Do	328	Intersection with M.R. No. 397	Widening and channelisation	do	1,475
Do	328	Fitzpatrick Avenue to Bantiy Bay Road	Dual carriageway	do ,	. 54
Do	530	M.R. No. 159 to junction of Lawrence and Oliver Streets	Deviation	Council	1,032
Do	530	Lawrence Street to Brighton Street, Harbord	Reconstruction	do	5,000
Iloughby	191	Opposite Davies Road	Widening, reconstruction and bitumen surfacing	do	2,000
Do	191	Anglo Street to Maclean Avenue, Chatswood	Widening and improvement	do	671
ndsor	154	South Windsor	Easement	do	311
Do	184	North Richmond Bridge	Approaches	Department	1,364
Do	184	Moray Street to Paget Street, Richmond	Drainage	do	9,496
0	184	Approaches to North Richmond Bridge	Protective treatment to levee banks	do	4,490
0	537	Bourke Street to East Market Street, Richmond	Reconstruction	do	10,748
ollahra	173	Intersection with Mona Road and Glenmore Road	Traffic signal adjustment	Council	615
Do	339	Cambridge Road to Salisbury Street	Reconstruction	do	1,120
Do	339	Intersection of Newcastle Street	Traffic island	do	350

78

(iv) Secondary Roads

		(17) 050010	ary nodus		
Ashfield	2013	Ramsay Road. Intersection with Dobroyd Parade	Improvements	Council	1,365
Ashfield and Leichhardt	2056	Bridge over Hawthorne Canal	Approaches	Department	7,547
Ashfield	2064	Intersection with Bland Street	Improvement	Council	2,048
Bankstown	2068	Thorn Street to Railway Underpass, Revesby	Reconstruction	do	1,205
Do	2068	Canterbury Road to Thorn Street	do	do	500
Do	2068	Railway Underpass to Tower Street	do	do	2,510†
Canterbury	2014	Eastern Side, Queensborough Road to Georges River Road	Shoulder reconstruction and drainage	do	1,000
Do	2021	Jay Avenue to James Street	Widening	do	189
Drummoyne	2059	Great North Road to Harris Road	Reconstruction	do	28,000
Hunters Hill	2052	Intersection with S.B. No. 2033	do	do	3,000
Ku-ring-gai	2043	Springdale Road to Koola Avenue, Killara	do	do	3,751
Do	2043	Bancroft Avenue to Iryon Road	do	do	2,856
Lane Cove	2070	Tambourine Bay Road to Warraroon Road	do	do	1,099
Do	2070	Warraroon Road to William Edward Street	do	do	2,589
Do	2070	Penrose Street to River Road West	do	do	3,125
Do	2070	River Rd. West, between William Edward St. and Longueville Rd	Reconstruction and widening	do	1,500
Manly	2025	Woods Parade to Margaret Street, Fairlight	Widening	do	829
Marrickville	2007	Crystal Street intersection with Douglas and Brighton Streets	Adjustment to traffic signals	do	776
Parramatta	2049	Church Street to Parkes Street	Construction and bitumen surfacing	do	5,064
Penrith	2082	Junction with S.H. No. 5	Reconstruction	do	310
Do	2082	King Georges Road to Waratah Street, Punchbowi	do	do	3,437
Rockdale	2080	Rocky Point Road to The Grand Parade	do	do	7,254
South Sydney	2083	Phillip Street to Cooper Street	do	do	5,237*
Strathfield	2057	Frazer Street to Mitchell Street	do	do	374
Sydney	2011	Regent Street to Gibbons Street, Redfern	do	do	739
Doi	2073	Johnstons Creek to Crescent Street, Wigram Road to Ross Street	Construction	do	7,543*

Total -- Secondary Roads

\$68,287

† For additional expenditure see Appendix No. 7.

COUNTY OF CUMBERLAND MAIN ROADS FUND—GENERAL PURPOSES—continued

SUMMARY OF EXPENDITURE FROM DEPARTMENT'S FUNDS ON CONSTRUCTION AND RECONSTRUCTION WORKS-continued

(v) Tourist Roads

City, Municipal or Shire Area	Rcad No.	Location of Work	Class of Construct	ion		Constructing Authority	Amount
<u> </u>		· · · · · · · · · · · · · · · · · · ·					\$
Baulkham Hills Blue Mountains Warringah	4006 4018 4005	9.2m. to 10.7m. and 11.45m. to 13.35m. from Wisemans Ferry 0.0m. to 0.5m. from Willoughby Street, Leura				Council do Department	7,135 3,250 . 332
							\$10,717
		(vi) Roads other th	han Main Roads			I—	
iverpool Jorth Sydney arramata lockdale ydney Villoughby Do Do Do		Sydney Rd. & Copeland St., between S.H. No. 2 & Campbell St. Extension of Broughton Street to High Street Intersection of Spurway Street and Bennetts Road Cooks River at Marsh Street Darling Harbour Goods Yard at William Henry Street, Ultimo Frenchs Road to Edinburgh Road Chandos Street, West Street to Brook Street Brook Street to Alpha Road	Reconstruction Construction Prestruction Prestressed concrete bridge Railway overbridge Widening and resealing Reconstruction Construction Total — F			Department	582 4,166 12,456 157,375 96,996 4,992 14,344 16,146 \$268,387
<u> </u>		SUMM,	ARY				
		Expressways		\$ 12,867*	\$		
		State Highways		701,296			
		Ordinary Main Roads		621,467			
		Secondary Roads		68,287			
•		Tourist Roads		10,717			
		Roads other than Main Roads		268,387	1,657,287		
		Roads other than Main Roads Survey, Design, Sure:vision, Planning, etc.			1,657,287 2,483,179		

Appendix No. 8A

COUNTY OF CUMBERLAND MAIN ROADS FUND-SPECIAL PURPOSES

SUMMARY OF EXPENDITURE FROM DEPARTMENT'S FUNDS ON CONSTRUCTION AND RECONSTRUCTION WORKS

(i) Expressways

City, Municipal or Shire Area	Rcad No.	Location of Work	Class of Construction	Constructing Authority	Amount
					\$
		WARR:NGA	H EXPRESSWAY		
orth Sydney	X1	Northern end of Sydney Harbour Bridge to Miller Street	Construction	Department	209,335
				-	\$209,335
		SYDNEY TO NEW	CASTLE EXPRESSWAY		
ornsby	ХЗ	26.6m. to 30.4m. north of Sydney		Department	24,323
Do	X3	Hawkesbury River at Kangaroo Point	Reinforced concrete bridge	do	348,669
					\$372,992
		SOUTHERN	EXPRESSWAY	1	
ollongong	X6		Construction	Department 1	11.657
			•		\$11,657
]	
			DISTRIBUTOR		
ydney	X7	Gonservatorium to Sir John Young Crescent	Construction	Council	436
					\$436
			Total — Expressways		\$594,421
		(ii) Ordino	rr Moin Doodo		
otany	170	McIntosh Street to Mill Pond Road	ry Main Roads Widening	Department	75.001
iotany and Randwick	183	Over M.R. No. 593	. Reinforced concrete bridge	do	288,677
Botany	344 344	Duplicate Bridge over Mill Pond Creek Botany Road to Dransfield Avenue		do do	8,135 6,004
Do	593	Southbound Carriageway over Mill Pond Creek	Reinforced concrete bridge	do	34,057
otany and Randwick andwick	593 593	Dowling Street to Dransfield Avenue Access to The Australian Golf Club	Reconstruction Reinforced concrete bridge	do do	848,133 26,844
andwick and South Sydney	593	Over Epsom Road	do	do	114,904
			Total — Ordinary Main Roads		\$1,348,067
				J	
		• •	r than Main Roads		
otany		Amelia Street Underpass to Botany Road	Reconstruction and widening	Department	45,170
			Total — Roads other than Main Road	ls	\$45,170
		SUMMARY	\$		
	I	Expressways			
		Ordinary Main Roads	1,342,067		
	I	Roads other than Main Roads	45,170		
		Total as shown in Receipts and Payments Statements — Appendix	No. 1 (B) (ii) \$1,987,658		

Appendix No. 9

COUNTRY MAIN ROADS FUND-GENERAL PURPOSES

SUMMARY OF EXPENDITURE FROM DEPARTMENT'S FUNDS ON CONSTRUCTION AND RECONSTRUCTION WORKS

(i) Expressways

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount
					\$
		SOUTHERN E	XPRESSWAY		
Wollongong Do Do	X6 X6 X6	Porter Street extension Gipps Road to Mt. Keira Overbridge Allan C:eek at Unanderra	Dual carriageway Asphaltic concrete surfacing Reinforced concrete box culvert	Department do do	488† 517* 3,211*
					\$3,240*
			Total — Expressways		\$3,240*
		(ii) State	Highways		
		PRINCE'S	HIGHWAY		
Bega	I 1	1			1

веуа					
	and 4	Swan Street to Union Street	Reconstruction and bitumen surfacing	Council	27,323
Do	1	Swan Street to Union Street	Reconstruction	Department	28,468
Do		Bega By-pass	Construction	do	5,563
		0.08m, to 9.85m. South of Narooma	Description	do	64,392
					04,392
Wollongong	1	Ghosts Creek	Prestressed concrete superstructure	do	3
Do	1	McCabe Street to Avondale Road, Dapto	Kerbside lanes	Council	3,500
Do	1	1.65m. to 1.8m. south of Wollongong	do	do	650
Do	1	10m. to 12m. south of Unanderra	Reconstruction	Department	39
Do	1	Gray Street to Collaery Road	Deviation	də	32,449
Do	1	Intersection with North Cliff Drive, Berkley	Widening	do	2,749
Do	• 1	5.3m. north of Wollongong	Improvement to crest	do	2,494
Do	1	Bridge over Macquarie Rivulet	Approaches including intersection with S.H. No. 25	do	453
Imlay	1	Bridge over Wallagaraugh River at Timbillica	Batter protection of approaches	cb	1,443
Do	1	Whelans Swamp, 7.15m. south of Eden	Reinforced concrete bridge	do	75
Do	1	0.95m. to 1.4m. from Brandy Creek	Restoration of damaged pavement	Council	25
Do	1	Junction with Edrom Road, 16.5m. south of Eden	Climbing lane	Department	20,679
Kiama	1	26.8m. to 28m. south of Wollongong	Bitumen surfacing	do	118*
Do	1	20.9m. to 30.2m. south of Wollongong	do	cb	261*
Shellharbour	1	13.09m. to 13.52m. south of Wollongong	Reconstruction and drainage	Council	1,000
Shoalhaven	1	Bomaderry Hill, 99.26m. to 99.51m. south of Sydney	Climbing lane	Department	9,798
Do	1	Abernethys Creek, 97m. to 97.5m. south of Sydney	Improvement to alignment	cb	67,124
Do	1	0m. to 0.9m. north of Shoalhaven River Bridge	Improvement	do	8,092
Do	1	Drainage between Albert and McKay Sts., opposite Ernest St	Reinforced concrete pipe culvert	Council	97
Do	l i	Worrigee Street to Kalendar Street	Reconstruction	do	110
		Wongee Street to Kalendar Offeet			

		HUME HIC	GHWAY		
Camden [2	2m. to 2.8m. south of Camden	Widening	Department	4
Do	2	Junction with Pank Street, Camden	Reconstruction	Council	1,000
Do	2	Broughton Street, Camden	Ke b and gutter	do	92
Gocd:adigbee	2	i Stoney Creek Bridge, 19.19m, south of S.H. No. 15	Widening	Department	139
Do	2	16.5m. to 17.6m. south west of Yass	Reconstruction and realignment	do	20,261*
Do	2	15.57m. to 22.57m. south of S.H. No. 15	Realignment and reconstruction	do	63,759
Goulburn City	2	Goulburn to S.H. No. 3	Reconstruction	do	26,348*‡
Gundagai	2	Daisy Bed Creek, 1.0m. south of Coolac	Approaches	cb	3,726
Do	2	Gundagai and South Gundagai	Railway level crossing	cb	20,616
Do	2	Mooney Mooney Hill, 49.8m. to 50.55m. south of Yass	Glimbing lane	cb	60,657
Gunning	2	Meadow Creek at Gunning	Temporary bridge and approaches	do	1,387
Do	2	30.2m. to 31.4m. south of Goulburn	Climbing lane	ob	41,803
Holbrook	2	24.5m. south of Tarcutta	Reinforced concrete box culvert	do	320
Do	2	Little Billabong Creek, 24.2m. south of Tarcutta	Reinforced concrete bridge	do	2,823
Do	2	30.2m. to 34.9m. south of Tarcutta	Reconstruction and bitumen surfacing	l dol	88,549

† For additional expenditure see Appendix No. 7.

For additional expenditure see Appendix No. 9A.

\$276,148

COUNTRY MAIN ROADS FUND—GENERAL PURPOSES—continued

SUMMARY OF EXPENDITURE FROM DEPARTMENT'S FUNDS ON CONSTRUCTION AND RECONSTRUCTION WORKS-continued

(ii) State Highways-continued

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount
					\$
		HUME HIGHW	AY—continued		
lbrook	2	24.7m, to 30.2m, south of Tarcutta	Reconstruction and bitumen surfacing	Department	9,995
ne	2	31.4m. to 38.8m. south of Holbrook	do	do	84,315
00	2	16.4m, to 18.3m. south of Holbrook and Sweetwater Crk. Bridge	Reconstruction, bitumen surfacing and approaches	do	855
0	2	20m. to 20.7m. south of Holbrook	Reconstruction and bitumen surfacing	do	76,950
amba	2	Intersection with S.H. No. 14 Pioneer Street to Gibbergunyah Creek	Improvement Reconstruction	do do	26,912 4,545
agong	2	Cutaway Hill, 4.2m. to 5.5m. south of Mittagong	Deviation	do	3.051
waree	2	Run-Q-Waters Creek, 134.6m. from Sydney	Prestressed concrete bridge	do	4,992
00	2	Run-O-Waters Creek, 138.2m. from Sydney	do	cb	84
o	2	39.3m, to 41.9m, south of Mittagong	Reconstruction and bitumen surfacing	do	23,347
Iwaree and Goulburn	2	Uringalla Creek to 7m. south of Goulburn	Widening and bitumen surfacing	do	2,246
gecarribee	2	Northern approach to bridge over Uringalla Creek	Bitumen surfacing	do	2
	2	Intersection with S.H. No. 25	Improvement	do do	9,393 2,420
londilly	2	Bridge over Bargo River at Tahmoor 3.25m. to 4.13m. south of Camden	Approaches		10,293
Do	2	Intersection with Finns Road	Reconstruction		1,982
0	2	1.5m. south of Picton	Extension of reinforced concrete box culvert		3,403
Do	2	9m. to 9.6m. south of Camden	Reconstruction	do	54,764
00	2	4.6m. to 7.16m. south of Camden	Realignment and climbing lanes	cb	54,993
ss	2	Bridge over Bango Creek, 1.6m. south of Yass	Approaches	cb	965
					\$598,260
lay onaro Do	4	8.1m. to 9.4m. west of Tathra	Reconstruction and bitumen surfacing	Department	20,642
	4	Between Big Bog and Nimitabel	Restoration and construction of new link road Reconstruction and bitumen surfacing	Council	24,570 61,969
umbulla	4	35m. to 40m. west of Bega	Reconstruction and bitumen surfacing	Council Department do	24,570 61,969 23,324
umbulla Do	4 4 4	35m. to 40m. west of Bega 21.3m. to 25.5m. west of S.H. No. 1 15m. to 20.42m. west of S.H. No. 1	Reconstruction and bitumen surfacing	Council Department do do	24,570 61,969 23,324 11,477
ımbulla Do Do	4 4 4 4	35m. to 40m. west of Bega 21.3m. to 25.5m. west of S.H. No. 1 15m. to 20.42m. west of S.H. No. 1 28.3m. to 33m. west of S.H. No. 1	Reconstruction and bitumen surfacing do do do	Council Department do do	24,570 61,969 23,324 11,477 16,110
umbulla Do Do umbulla and Monaro	4 4 4 4 4 4	35m. to 40m. west of Bega 21.3m. to 25.5m. west of S.H. No. 1 15m. to 20.42m. west of S.H. No. 1 28.3m. to 33m. west of S.H. No. 1 33m. to 35m. west of S.H. No. 1	Reconstruction and bitumen surfacing do	Council Department do do do do	24,570 61,969 23,324 11,477 16,110 24,889
umbulla Do Do umbulla and Monaro owy River	4 4 4 4 4 4 4 4 4 4 4 4	35m. to 40m. west of Bega 21.3m. to 25.5m. west of S.H. No. 1 15m. to 20.42m. west of S.H. No. 1 28.3m. to 33m. west of S.H. No. 1	Reconstruction and bitumen surfacing do do do do do do do do do	Council Department do do do do	24,570 61,969 23,324 11,477 16,110 24,889 124,187
umbulla Do umbulla and Monaro owy River Do Do	4 4 4 4 4 4 4 4 4 4	35m. to 40m. west of Bega 21.3m. to 25.5m. west of S.H. No. 1 15m. to 20.42m. west of S.H. No. 1 28.3m. to 33m. to 35m. west of 33m. to 35m. west of S.H. No. 1 4.3m. to 35m. west of S.H. No. 1 4.3m. to 55m. west of S.H. No. 1 4.3m. to 5m. west of Kindra 1.3m. to 2m. west of Kindra 2m. to 4.3m. west of Kindra	Reconstruction and bitumen surfacing do	Council Department do do do do do do do do	24,570 61,969 23,324 11,477 16,110 24,889 124,187 9,167 45,665
umbulla Do umbulla and Monaro umbulla and Monaro nowy River Do Do mut	4 4 4 4 4 4 4 4 4	35m. to 40m. west of Bega 21.3m. to 25.5m. west of S.H. No. 1 15m. to 20.42m. west of S.H. No. 1 28.3m. to 33m. west of S.H. No. 1 33m. to 35m. west of S.H. No. 1 .4.3m. to 55m. west of S.H. No. 1 .4.3m. to 55m. west of S.H. No. 1 .4.3m. to 55m. west of Kiandra .1.3m. to 25m. west of Kiandra .2m. to 4.3m. west of Kiandra .3.8m. to 4.3m. east of Tumut	Reconstruction and bitumen surfacing do	Council Department do	24,570 61,969 23,324 11,477 16,110 24,889 124,187 9,167 45,665 10,372
umbulla Do umbulla and Monaro nowy River Do Do Imut Do Do	4 4 4 4 4 4 4 4 4 4	35m. to 40m. west of Bega 21.3m. to 25.5m. west of S.H. No. 1 15m. to 20.42m. west of S.H. No. 1 28.3m. to 33m. to 35m. west of S.H. No. 1 33m. to 35m. west of S.H. No. 1 1 4.3m. to 35m. west of S.H. No. 1 1 4.3m. to 55m. west of Kiandra 1 1.3m. to 2m. west of Kiandra 2m. to 4.3m. west of 28.4m. to 4.35m. east of Turnut 39.4m. to 4.35m. east of	Reconstruction and bitumen surfacing do	Council Department do do do do do do do do do do do	24,570 61,969 23,324 11,477 16,110 24,889 124,187 9,167 45,665 10,372 178
Imbulla Do Imbulla and Monaro owy River Do Do Do Do Do Do	4 4 4 4 4 4 4 4 4 4 4 4	35m. to 40m. west of Bega 21.3m. to 25.5m. west of S.H. No. 1 15m. to 20.42m. west of S.H. No. 1 28.3m. to 33m. west of S.H. No. 1 33m. to 35m. west of Kiandra 1.3m. to 5m. west of Kiandra 2m. to 4.3m. east of Tumut 3.8m. to 4.23m. east of Tumut 39.4m. to 48.85m. east of Tumut M.R. No. 278 to M.R. No. 278	Reconstruction and bitumen surfacing do do	Council	24,570 61,969 23,324 11,477 16,110 24,889 124,187 9,167 45,665 10,372 178 499
Imbulla Do Imbulla and Monaro owy River Do Do Do Do Do Do	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	35m. to 40m. west of Bega 21.3m. to 25.5m. west of S.H. No. 1 15m. to 20.42m. west of S.H. No. 1 28.3m. to 33m. to 35m. west of S.H. No. 1 33m. to 35m. west of S.H. No. 1 1 4.3m. to 35m. west of S.H. No. 1 1 4.3m. to 55m. west of Kiandra 1 1.3m. to 2m. west of Kiandra 2m. to 4.3m. west of 28.4m. to 4.35m. east of Turnut 39.4m. to 4.35m. east of	Reconstruction and bitumen surfacing do	Council Department do do do do do do do do do do do	24,570 61,969 23,324 11,477 16,110 24,889 124,187 9,167 45,665 10,372 178
Imbulla	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	35m. to 40m. west of Bega 21.3m. to 25.5m. west of S.H. No. 1 15m. to 20.42m. west of S.H. No. 1 28.3m. to 33m. west of S.H. No. 1 33m. to 35m. west of S.H. No. 1 33m. to 35m. west of S.H. No. 1 4.3m. to 55m. west of S.H. No. 1 4.3m. to 55m. west of Kiandra 1.3m. to 5m. west of Kiandra 2m. to 4.3m. sest of Kiandra 3.8m. to 4.35m. east of Tumut 39.4m. to 48.85m. east of Tumut M.R. No. 278 to M.R. No. Gilmore Creek, 0.25m. from Gilmore Cilmore	Reconstruction and bitumen surfacing do do	Council Department do Dopartment	24,570 61,969 23,324 11,477 16,110 24,889 124,187 9,167 45,665 10,372 178 499 207 4,285
Imbulla	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	35m. to 40m. west of Bega 21.3m. to 25.5m. west of S.H. No. 1 15m. to 20.42m. west of S.H. No. 1 28.3m. to 33m. to 35m. west of S.H. No. 1 33m. to 35m. west of S.H. No. 1 1 4.3m. to 35m. west of Kindra 1 1.3m. to 2m. west of Kindra 1 2m. to 4.3m. west of Kiandra 38.4m. 39.4m. to 4.83m. east of Turnut 39.4m. to 48.85m. east of Turnut M.R. No. 278 to M.R. No. 279 Gilmore Gilmore Creek, 0.25m. from Gilmore Sandy Creek, 2m. west of Gilmore	Reconstruction and bitumen surfacing do do	Council Department do Dopartment	24,570 61,969 23,324 11,477 16,110 24,889 124,187 9,167 45,665 10,372 178 499 207
Jmbulla Do Jowy River Do Do Do Do Do Do Do Do Do Do	4 4 4 4 4 4 4 4 4 4 4 4 4 4	35m. to 40m. west of Bega 21.3m. to 25.5m. west of S.H. No. 1 15m. to 20.42m. west of S.H. No. 1 28.3m. to 33m. to 35m. west of S.H. No. 1 33m. to 35m. west of S.H. No. 1 1 4.3m. to 35m. west of Kindra 1 1.3m. to 2m. west of Kiandra 2m. to 2.3m. to 4.3m. west of Tumut 39.4m. to 4.85m. east of Tumut 39.4m. to 4.85m. east of Tumut 39.4m. to 4.85m. east of Tumut Sendy Creek, 0.25m. from Gilmore Sandy Creek, 2m. west of Gilmore Garady Creek, 2m. west of Gilmore GREAT WESTE	Reconstruction and bitumen surfacing do do	Council Department do do do do do do do Council Council Council	24,570 61,969 23,324 11,477 16,110 24,889 124,187 9,167 45,665 10,372 178 499 207 4,285 \$377,541
umbulla	54 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	35m. to 40m. west of Bega 21.3m. to 25.5m. west of S.H. No. 1 15m. to 20.42m. west of S.H. No. 1 28.3m. to 33m. to 33m. to 35m. west of S.H. No. 1 28.3m. to 35m. west of S.H. No. 1 33m. to 35m. to 34m. to 35m. west of Kiandra 1.3m. to 5m. west of Kiandra 2.3m. to 4.3m. west of Kiandra 3.4m. to 4.3m. east of Tumut 39.4m. to 4.885m. east of Tumut 39.4m. No. 279 Gilmore Creek, 0.25m. from Gilmore Sandy Creek, 2m. west of Gilmore GREAT WESTE Intersection with S.H. Nos. 6 and 7	Reconstruction and bitumen surfacing do do	Council Department	24,570 61,969 23,324 11,477 16,110 24,889 124,187 9,167 45,665 10,372 178 499 207 4,285 \$377,541 8,615
mbulla	Š	35m. to 40m. west of Bega 21.3m. to 25.5m. west of S.H. No. 1 15m. to 20.42m. west of S.H. No. 1 28.3m. to 33m. west of S.H. No. 1 28.3m. to 33m. west of S.H. No. 1 33m. to 35m. west of S.H. No. 1 4.3m. to 35m. west of Kindra 1.3m. to 2m. west of Kiandra 2m. to 4.3m. west of Turnut 39.4m. to 4.85m. east of Turnut 39.4m. to 4.85m. east of Turnut M.R. No. 278 to M.R. No. 279 Gilmore Gilmore Creek, 0.25m. from Gilmore Sandy Creek, 2m. west of Sandy Creek, 2m. west of Gilmore GREAT WESTE Intersection with S.H. Nos. 6 and 7 Message	Reconstruction and bitumen surfacing do Beviation Steel and concrete bridge, box culvert and approaches REN HIGHWAY Improvement Reconstruction as partial grade separated section	Council Department	24,570 61,969 23,324 11,477 16,110 24,889 124,187 9,167 45,665 10,372 178 499 207 4,285 \$377,541 \$377,541
Imbulla		35m. to 40m. west of Bega 21.3m. to 25.5m. west of S.H. No. 1 15m. to 20.42m. west of S.H. No. 1 28.3m. to 33m. to 33m. to 35m. west of S.H. No. 1 28.3m. to 35m. west of S.H. No. 1 33m. to 35m. to 34m. to 35m. west of Kiandra 1.3m. to 5m. west of Kiandra 2.3m. to 4.3m. west of Kiandra 3.4m. to 4.3m. east of Tumut 39.4m. to 4.885m. east of Tumut 39.4m. No. 279 Gilmore Creek, 0.25m. from Gilmore Sandy Creek, 2m. west of Gilmore GREAT WESTE Intersection with S.H. Nos. 6 and 7	Reconstruction and bitumen surfacing do do	Council Department	24,570 61,969 23,324 11,477 16,110 24,889 124,187 9,167 45,665 10,372 178 499 207 4,285 \$377,541 8,615 24,917 5,791
Jmbulla	Š	35m. to 40m. west of Bega 21.3m. to 25.5m. west of S.H. No. 1 15m. to 20.42m. west of S.H. No. 1 28.3m. to 33m. west of S.H. No. 1 28.3m. to 33m. west of S.H. No. 1 33m. to 35m. west of S.H. No. 1 4.3m. to 35m. west of Kindra 1.3m. to 2m. west of Kiandra 2m. to 4.3m. west of Turnut 39.4m. to 4.85m. east of Turnut 39.4m. to 4.85m. east of Turnut M.R. No. 278 to M.R. No. 279 Gilmore Gilmore Creek, 0.25m. from Gilmore Sandy Creek, 2m. west of Sandy Creek, 2m. west of Gilmore GREAT WESTE Intersection with S.H. Nos. 6 and 7 Message	Reconstruction and bitumen surfacing do Beviation Steel and concrete bridge, box culvert and approaches REN HIGHWAY Improvement Reconstruction as partial grade separated section	Council Department	24,570 61,969 23,324 11,477 16,110 24,889 124,187 9,167 45,665 10,372 178 499 207 4,285 \$377,541 8,615 24,917
umbulla	Š	35m. to 40m. west of Bega 21.3m. to 25.5m. west of S.H. No. 1 15m. to 20.42m. west of S.H. No. 1 28.3m. to 33m. west of S.H. No. 1 28.3m. to 33m. west of S.H. No. 1 33m. to 35m. west of S.H. No. 1 4.3m. to 35m. west of Kindra 1.3m. to 2m. west of Kiandra 2m. to 4.3m. west of Turnut 39.4m. to 4.85m. east of Turnut 39.4m. to 4.85m. east of Turnut M.R. No. 278 to M.R. No. 279 Gilmore Gilmore Creek, 0.25m. from Gilmore Sandy Creek, 2m. west of Sandy Creek, 2m. west of Gilmore GREAT WESTE Intersection with S.H. Nos. 6 and 7 Message	Reconstruction and bitumen surfacing do do	Council Department	24,570 61,969 23,324 11,477 16,110 24,889 124,187 9,167 45,665 10,372 178 499 207 4,285 \$377,541 \$377,541 8,615 24,917 5,791
Jmbulla	Š	35m. to 40m. west of Bega 21.3m. to 25.5m. west of S.H. No. 1 15m. to 20.42m. west of S.H. No. 1 28.3m. to 33m. west of S.H. No. 1 33m. to 35m. west of S.H. No. 1 4.3m. to 35m. west of S.H. No. 1 4.3m. to 35m. west of S.H. No. 1 4.3m. to 35m. west of Kiandra 1.3m. to 2m. west of Kiandra 28.m. to 4.23m. east of Tumut 39.4m. to 4.23m. east of Tumut 39.4m. to 4.23m. east of Tumut 39.4m. to 4.23m. east of Tumut Sen. to 24.8m. west of Gilmore GREAT WESTE Intersection with S.H. Nos. 6 and 7 Intersection with T.R. No. 55 21.7m. to 24.4m. west of Lithgow MID WESTER Fitzgerald Mount, 13.0m. west of Bathurst	Reconstruction and bitumen surfacing do do	Council Department	24,570 61,969 23,324 11,477 16,110 24,889 124,187 9,167 45,665 10,372 178 499 207 4,285 \$377,541 \$377,541 8,615 24,917 5,791
Imbulla	5 5	35m. to 40m. west of Bega 21.3m. to 25.5m. west of S.H. No. 1 15m. to 20.42m. west of S.H. No. 1 28.3m. to 35m. west of S.H. No. 1 28.3m. to 35m. west of S.H. No. 1 33m. to 35m. west of S.H. No. 1 4.3m. to 35m. west of S.H. No. 1 4.3m. to 55m. west of S.H. No. 1 4.3m. to 55m. west of Kiandra 2.3m. to 2m. west of Kiandra 2.3m. to 4.3m. west of Tumut 39.4m. to 4.85m. east of Tumut 39.4m. to 48.85m. east of Tumut 39.4m. to 48.85m. east of Tumut Sen. to 4.25m. from Gilmore Sandy Creek, 2m. west of Gilmore GREAT WESTE Intersection with S.H. Nos. 6 and 7 Intersection with T.R. No. 55 21.7m. to 24.4m. west of Lithgow MID WESTER	Reconstruction and bitumen surfacing do do	Council	24,570 61,969 23,324 11,477 16,110 24,889 124,187 9,167 45,665 10,372 178 499 207 4,285 \$377,541 \$3377,541 \$39,323

COUNTRY MAIN ROADS FUND-GENERAL PURPOSES-continued

SUMMARY OF EXPENDITURE FROM DEPARTMENT'S FUNDS ON CONSTRUCTION AND RECONSTRUCTION WORKS-continued

(ii) State Highways-continued

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount
					\$
		MID WESTERN	HIGHWAY—continued		
ndhurst augoola	6 6	21.4m. to 22.5m. west of Blayney 31.3m. west of Blayney	Reconstruction and bitumen surfacing	Department	1,8 1,0
					\$3,0
		МІТОЦІ	LL HIGHWAY	· · · · · · · · · · · · · · · · · · ·	
	-			Department	7.5
ercrombie	4	11.5m. to 11.8m. west of Bathurst 12m. to 25m. south of Nyngan	Climbing lane	do	,,c 1
rling	7	62m. to 87.3m. north of Bourke		do	1.1
long	7	Bell River at Claremont, 9m. from Molong		do	.,
inge	7	23.1m. to 26.7m. west of Bathurst		do	17.
bragar	7	18.3m. west of Dubbo		do	2.3
00	7	24.4m, to 29m, west of Wellington		do	73,
	7	7m. and 12.1m. west of Dubbo	Deviation	cb	16,
					\$119,
				. 1	
			ER HIGHWAY		
an	8	Muriel Tank, 39.7m. to 40.4m. west of Nyngan		Council	94,
o	8	Muriel Tank, 39.7m. to 40.4m. west of Nyngan		Department	22.
o	8	38.9m. to 41.2m. west of Nyngan		Council	19,
itral Darling	8	22.65m., 24.15m. and 25.9m. west of Wilcannia		Department	
	8	2m. to 9m. west of Wilcannia		do	23,
00	8	8m. to 13m. east of Wilcannia	do	do	43,
Do	8	9m. to 19m. west of Wilcannia		do	65,
00	8	52m, to 72.3m. east of Wilcannia	do	do	
0	8	0m. to 2m. west of Wilcannia	do	do	11,
oar	8	40m. to 50m. west of Cobar	do	do	
00	8	70m. to 80m. west of Cobar		do	13,
	8	80m. to 92.8m. west of Cobar		do	44.
ray Darling Div	8	49.9m. to 65.5m. east of Broken Hill	do	do	33,
o J	8	65.5m. to 73m. east of Broken Hill	do	cb	42,
		``			\$415.
		NEW ENG	LAND HIGHWAY		
nidale City	9	1.02m, to 1.73m, north of Armidale		. Council	4
0	ğ	1.3m. to 1.9m. south of Armidale		do	5
iman	ğ	22.4m. to 24.2m north of Singleton		Department	1
naresq and Uralla	ğ	Soumarez Creek, 5.6m, south of Armidale		Council	•
ra	9	Railway Siding to Guyra Abattoir	Overbridge	Department	43
0	ĕ	1m. south to 0.34m. north of Guyra		do	45
0	9	1m. to 2.46m. south of Guyra	do	cb	128
tland	9	Melbourne Street to Brunswick Street, East Maitland	Pavement widening and shoulder strengthening	do	7
0	9	3.29m. to 5.19m, west of Maitland	Reconstruction	do	101
o	9	2.87m. to 3.32m, west of Maitland	do	cb	
0	ğ	Eastville turnoff, 18.02m. north of Newcastle		do	10
rrurundi	9	Chilcotts Creek Road and intersection with S.H. No. 9	Improvement to level crossing and approaches	Council	4
0	ě	6.7m. to 11.9m. north of Murrurundi	Deviation	Department	29
swellbrook Munic.	ğ	Junction with Thompson Street	Improvement	do	8
0	ğ	Aberdeen Street, Muswellbrook	Service Road	do	8
wcastle	9	Weakleys Flat Creek at Beresfield	Reinforced concrete bridge	cb	8
rick Plains	ğ	19.7m. to 21.1m. west of Maitland	Reconstruction	do	29.
	ă	0.2m. west of Belford			

83

† For additional expenditure see Appendix No. 7.

COUNTRY MAIN ROADS FUND-GENERAL PURPOSES-continued

SUMMARY OF EXPENDITURE FROM DEPARTMENT'S FUNDS ON CONSTRUCTION AND RECONSTRUCTION WORKS-continued

(ii) State Highways-continued

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount
				-	\$
		NEW ENGLAND H	IGHWAY-continued		
əl	9	Boiling Down Creek, 43.37m. north of Murrurundi	Culvert and approaches	Department (43
one	9	15.3m. to 15.6m. north of Muswellbrook	Reconstruction	do	26,5
00	9	14.4m. to 15.4m. north of Muswellbrook		cb	7,1
narang	9	Bridges over Spring and Kangaroo Creeks		do	9
0	9	29m. to 30.3m. north of Murrurundi		ob	96,9
0	y	23m. to 24.1m. north of Murrurundi		cb	3,8
lo	9	30.3m. to 32.1m. north of Murrurundi	Reconstruction and bitumen surfacing	do	1,0
nworth	à	3.2m. south of Tamworth	Precast concrete box culvert	Council	10,1
	9	Peel River	Removal of bridge	do	4,4
terfield Shire	9	Wallangarra		cb	2,9
lia	9	Church Gully, 50.4m. north of Tamworth		Department do	1,21 18,4
)o	0	50.13m. to 53.29m. north of Tamworth	Reconstruction and bitumen surfacing		103.16
	9	48.1m. to 50.13m. north of Tamworth	do		125.76
0	ğ	45.2m. to 47.32m. north of Tamworth	do Reconstruction		3,5
					\$810,9
			HIGHWAY	·	
on	10	0.25m, to 1m, north of Brunswick Heads		Department	6
fs Harbour	10	4.8m. to 8m. north of Coffs Harbour		do	1.5
	iŏ	8m, to 9.49m, north of Coffs Harbour		do	83.09
00	10	7.4m. to 9.2m. north of Coffs Harbour		do	2
00	10	6.08m, to 8m, north of Coffs Harbour	Reconstruction	do	28
sford	10	Intersection with M.R. No. 349	Channelisation	do	1.45
mpsey	10	Approaches to Bridge over Macleay River	Channelisation and medians	Council	6.00
e Macquarie	10	Murray Street to South Street, Bennetts Green		Department	39.13
clean	10	Clarence River at Harwood	Steel and concrete bridge	do	24
Do	10	33m. to 37m. north of South Grafton		cb	3,6
mbucca	10	Lower Warrell Creek, 32.6m. to 34.4m. north of Kempsey		do	137,53
ο	10	Om. to 2.2m. north of Macksville	Reconstruction and bitumen surfacing	do	8,61
	10	Bridge over Upper Warrell Creek, 6.8m. south of Macksville		do	4,07
wcastle	10	Brunker Road to Scenic Road	Widening	Council	. 7
00	10	Selected lengths from Tudor Street to Baker Street	Reconstruction	do	2,25
Do	10 10	Wallsend Road to 2HD Radio Station	Dual carriageway	do	22.77
rt Stephens Do	10	5.4m. to 7.7m. north of Raymond Terrace		Department	79,29
	10	14.6m. to 18.82m. north of Newcastle		do do	4.53
	10	Bridge over Coolongolook River, Coolongolook			47
oud	10	Bacons Quarry, 10m. north of Bulahdelah			75
0	10	4.36m. to 6.20m. north of M.R. No. 506			8.6
0	10	15.5m. to 19m. north of Bulahdelah	Reconstruction		109,09
0	10	0m. to 2.38m, and 6.2m to 10.12m, north of M.R. No. 506	Widening of formation	do	7.9
0	10	2.38m. to 4.36m. north of M.R. No. 506	do		7.4
0	10	6.4m. to 9.2m. north of Bulahdelah	Climbing lane	cb	22.2
0	10	10.12m. to 12.85m. north of M.R. No. 506	Widening of shoulders	do	8.6
o	10	1m. north of Bulahdelah	Improvement to crest	do	80,8
0	10	0.12m. to 0.25m. north of Myall River	Improvement to curve	do	5,5
ee	10	Pulteney Street to Macquarie Street, Taree	Median strip	Council	2,3
tenbar	10	Selected lengths, 12.78m. to 19.34m. north of Woodburn	Restoration of damaged bitumen pavement	Department	2
ed	10	Bridge over Dinseys Creek, 5.05m. north of Murwillumbah	Widening	do	1,8
00	10	River Terrace to Pacific Lane, North Murwillumbah	Reconstruction	Council	13,18
00	10 10	14.52m. to 15.93m. north of Murwillumbah 4.38m. to 5.97m. south of Murwillumbah		Department	3

COUNTRY MAIN ROADS FUND---GENERAL PURPOSES---continued

SUMMARY OF EXPENDITURE FROM DEPARTMENT'S FUNDS ON CONSTRUCTION AND RECONSTRUCTION WORKS-continued

(ii) State Highways—continued

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructi Authority		Amount
						\$
		PACIFIC HIGHW	/AY—continued			
veed	10	2.1m. north of Murwillumbah	Deviation	Department		53,29
Do	10	0m. to 1.3m, north of Murwillumbah	Reconstruction and bitumen surfacing	do		20,41
<u> 2</u> 0	10	3.71m. to 5.6m. north of Murwillumbah	Reconstruction			18
20	10	1.3m. to 2.6m. north of Murwillumbah	do			1.00
Do	10 10	11.7m. to 13.6m. north of Murwillumbah 6m. to 8m. north of Murwillumbah	Reconstruction, widening and bitumen surfacing	1 1	•••••	1,09
Do	10	17.4m, to 18.6m. north of Murwillumbah	Peviation Reconstruction and widening			10,2
odburn	10	13.6m. and 13.8m. south of Woodburn	Reinforced concrete bridges			10,2
Do	10	5m. to 5.75m. south of Woodburn	Strengthening and bitumen surfacing	1 17		4
00	iŏ	6.5m. to 7.4m. south of Woodburn	do			1.0
Do	10	Bridges at 13.6m. and 13.8m. south of Woodburn	Approaches			28,8
ong	10	Bridge over Bangalow Creek, 6.15m. north of Gosford	Widening			1,94
Do	10	7.6m. to 8.3m. north of Gosford	Reconstruction and widening	do		14,4
Do	10	Southern approach to Bangalow Creek culvert	Reconstruction and kerb improvement			3,89
20	10	11.5m. to 12.5m. north of Gosford	Widening of culverts			2,60
20	10	Junction with M.R. No. 509	Bitumen surfacing			13.6
Do	10	Bridge over Cut Rock Creek	Approaches	l do	······	72,2
						\$811,3
		OXLEY H	IGHWAY			
nabarabran	11	0.6m. east of Coonabarabran	Improvement to level crossing	Department	1	:
	ii	Railway Overbridge, 4.5m. north of Coonabarabran	Approaches	Council		5.00
Do	ii	From Castlereagh River Bridge and 1.0m. east of Coonabarabran	Reconstruction and widening	do		6.00
Do	11	2.4m. to 3.4m. south of Coonabarabran	Reconstruction	Department		19,4
Do	11	30m, to 31m, east of Coonabarabran	do			
stings	11	31m. to 35m. west of Port Macquarie	Reconstruction and bitumen surfacing			4,6
Do	11	47m. to 50.4m. west of Port Macquarie	do			22,2
Do	11	12.95m. to 14m. west of Port Macquarie	do	Council		36,9
el	11	23.7m. to 24.8m. west of Tamworth	do	do		6,5
rt Macquarie	11	Hollingworth Street to Hindman Street, Port Macquarie	do	do		15,0
Icha	11	5m. to 7m. east of Walcha	do			20,0
00	11 11	2.5m. west of Walcha	Elimination of crest			39,0
00		6m. to 8m. west of Walcha	Reconstruction and bitumen surfacing			117,0 10,2
Do	11 11	7m. to 10m. east of Walcha	dodo		••••••	10,21
Do		10m. to 12.53m. east of Walcha	do		•••••	120.2
Do	11	Tia River, 22.2m. east of Walcha	Prestressed concrete bridge			1.3
00	11	Maineys Creek, 5.4m. east of Walcha	do	do		1,0
					1-	\$346,3
					I	
			HIGHWAY			
blooroo	12	6m. to 10m. east of Moree	Reconstruction and bitumen surfacing	Council		11.5
omi	12	Cowbail Creek, 28.6m. west of Moree	Prestressed concrete bridge and approaches	do		16.0
cintyre	12 12	5.83m. west of Inverell	Reinforced concrete box culvert	do		17,9 30,0
ern	12	Climbing lane at Waterloo Range	Gravelling and sealing	do		30,0
)o	12	7.5m. to 8.5m. west of Glen Innes Various locations east of Glen Innes	Climbing lane	do Department		30,0
	12	At Gibraltar Range, 45m. to 46m. east of Glen Innes	Drainage			5.2
		I AL GINIARUE HUNGE, HURL TO HOME CASE OF CIEFF HIMES				
	12	Bridge over Beddestone Creek 65m west of Glen Innes	Approaches	L Council		16
Do	12 12	Bridge over Reddestone Creek, 6.5m. west of Glen Innes	Approaches	Council		1,6 55.0
	12 12	Bridge over Reddestone Creek, 6.5m. west of Glen Innes 4.6m. to 6m. east of Warialda	Approaches	Council do		1,6 55,0

28

† For additional expenditure see Appendix No. 9A.

COUNTRY MAIN ROADS FUND—GENERAL PURPOSES—continued

SUMMARY OF EXPENDITURE FROM DEPARTMENT'S FUNDS ON CONSTRUCTION AND RECONSTRUCTION WORKS-continued

(ii) State Highways-continued

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	- Constructing Authority	Amount
					\$
		STURT H	IIGHWAY		
Iranald	14	12.47m. to 13.85m. east of Euston	Reconstruction	Department	54.8
Do	14	Om. to 5.5m. west of Euston	do	do	129,1
у	14	12m. to 19m. and 21m. to 27m. west of Hay	Widening of existing formation	do	114,5
Do	14	19.5m. to 22m. west of Hay	Reconstruction of curves	do	49,2
Do	14	4.85m, to 5.9m, west of Hay 31.96m, to 36.87m, west of Wagga Wagga	Reconstruction and widening	Council	5,1
tchell and Narrandera	14 14	Various sections, 5.2m. to 44.6m, west of Wagga Wagga	Reconstruction and bitumen surfacing Improvement to grading	Department do	24.8
rrandera	14	38.98m. to 43.63m. west of Wagga Wagga	Reconstruction and bitumen surfacing	do	35.8
Do	14	8m. to 12m. east of Narrandera	Improvement to shoulders	do	14,4
Do	14	Bridge over Poisoned Waterholes C.eek, 54.75m. west of Wagga		1	
		Wagga	Approaches	do	1,1
kool	14 14	71.43m. to 74.43m. west of Hay 50.4m. to 77.3m. west of S.H. No. 21	Bitumen surfacing	do	7,4 5.9
Do Do	14	68.05m. to 74.05m. west of Hay	Widening Bitumen surfacing	do	9,1
	14	1 00.00m to 14.00m, wost of hay	i branon sanaong	/	
					\$451,9
				· ·	
odradigbee	15	25m. to 27.7m. from Canberra	HIGHWAY Reconstruction and bitumen surfacing	Department	115,2
-					\$115.2
				I	
		BRUXNER	R HIGHWAY		
L.f	16	Mullers Lagoon, 8.5m. east of Bonshaw	Freinforced box culvert	Department	3
hford Do	16	35m. to 41m. west of Bonshaw at Yetman	Reconstruction and bitumen surfacing	Council	45.0
Do	16	31m. to 35m. west of Bonshaw	do	do	66.7
Do	16	4m. to 10m. east of Bonshaw	do	Department	37,0
Do	16	0.5m. to 5m. west of Bonshaw	do	do	14,0
Do	16	0.5m. to 4m. east of Bonshaw	do	do	_2.5
Do	16 16	10m. to 14m. east of Bonshaw Greenhills Creek, 28.6m. west of Bonshaw	Reinforced concrete bridge and approaches	do Council	72,6 3
Do Do	16	Campbells Creek, 33.4m. west of Bonshaw	Reinforced concrete box culvert	do	23.1
Do	16	Sandy Creek, 18.5m, west of Bonshaw	do	do	20,1
sino	16	38.7m, to 40m, and 40.03m, to 40.9m, from Ballina	Strengthening	do	19,5
Indurimba	16	24.97m. to 25.5m. west of Ballina	Reconstruction and bitumen surfacing	do	40,4
Do	16	22.7m. to 23.8m, west of Ballina	do	do	8,0
0	16 16	25.34m. to 27.27m. west of Ballina	do Reinforced concrete box culvert	do	4,1
Do	16	29.08m. west of Ballina Deep Creek, 16.7m. west of Casino	Erosion protection	Department	3,1 5,3
	16	16.63m, to 16.9m, west of Casino	Reconstruction	do	59.1
	16	Little Yellow Creek, 8.1m. east of Drake	Reinforced concrete bridge	do	4,3
nterfield Munic.		14.7m. to 17m, west of Tenterfield	Reconstruction and bitumen surfacing	Council	21.3
nterfield Munic nterfield Shire	16			do	128,8
nterfield Munic nterfield Shire Do	16	23m. to 27m. west of Tenterfield			
nterfield Munic hterfield Shire	16 16	23m. to 27m. west of Tenterfield 13m, to 18m. east of Tenterfield	do	do	
nterfield Munic nterfield Shire	16 16 16	23m. to 27m. west of Tenterfield 13m. to 18m. east of Tenterfield 31.6m. to 32.6m. east of Tenterfield	do do	do do	37,7
nterfield Munic nterfield Shire	16 16 16 16	23m. to 27m. west of Tenterfield 13m. to 18m. east of Tenterfield 31.6m. to 32.6m. east of Tenterfield 20.36m. to 23m. west of Tenterfield	do	do do do	37,7 40,0
nterfield Munic. nterfield Shire	16 16 16 16 16	23m. to 27m. west of Tenterfield 13m, to 18m, east of Tenterfield 31.6m, to 32.6m, east of Tenterfield 20.36m, to 23m, west of Tenterfield Ti-Tree Creek, 5.2m, east of Drake	do do do Steel and concrete bridge	do do Department	37,7 40,0 4,0
nterfield Munic. nterfield Shire Do	16 16 16 16 16 16	23m. to 27m. west of Tenterfield 13m. to 18m. east of Tenterfield 31.6m. to 32.6m. east of Tenterfield 20.36m. to 23m. west of Tenterfield Ti-Tree Creek, 5.2m. east of Drake 14m. to 19.8m. east of Bonshaw	do do do Steel and concrete bridge Reconstruction and bitumen surfacing	do do Department do	37,7 40,0 4,0 3,8
nterfield Munic. nterfield Shire	16 16 16 16 16 16 16	23m. to 27m. west of Tenterfield 13m. to 18m. east of Tenterfield 31.6m. to 32.6m. east of Tenterfield 20.36m. to 23m. west of Tenterfield Ti-Tree Creek, 5.2m. east of Drake 14m. to 19.8m. east of Bonshaw 87m. to 91.3m. west of Baliina	do do Steel and concrete bridge Reconstruction and bitumen surfacing do	do do Department do Dopartment do	37,7 40,0 4,0 3,8 18,7
nterfield Munic. nterfield Shire	16 16 16 16 16 16 16 16	23m. to 27m. west of Tenterfield 13m. to 18m. east of Tenterfield 20.36m. to 32.6m. east of Tenterfield 20.36m. to 23m. west of Tenterfield Ti-Tree Creek, 5.2m. east of Drake 14m. to 19.8m. east of Bonshaw 87m. to 91.3m. west of Ballina 85m. to 87m. west of Ballina	do do do Steel and concrete bridge	do do Department do do do	37,7 40,0 4,0 3,8 18,7 35,9
nierfield Munic. nierfield Shire Do	16 16 16 16 16 16 16 16 16	23m. to 27m. west of Tenterfield 13m. to 18m. east of Tenterfield 31.6m. to 32.6m. east of Tenterfield 20.36m. to 23m. west of Tenterfield Ti-Tree Creek, 5.2m. east of Drake 14m. to 14m. to 19.8m. east of Ballina 85m. to 87m. west of Ballina 12.6m. to 12.8m. from Ballina	do do Steel and concrete bridge Reconstruction and bitumen surfacing do Realignment Approaches	do	7,4 37,7 40,0 3,8 18,7 35,9 43,3 58,2
nterfield Munic. nterfield Shire Do	16 16 16 16 16 16 16 16	23m. to 27m. west of Tenterfield 13m. to 18m. east of Tenterfield 20.36m. to 32.6m. east of Tenterfield 20.36m. to 23m. west of Tenterfield Ti-Tree Creek, 5.2m. east of Drake 14m. to 19.8m. east of Bonshaw 87m. to 91.3m. west of Ballina 85m. to 87m. west of Ballina	do do do Steel and concrete bridge	do do Department do do do	37,7 40,0 4,0 3,8 18,7 35,9 43,3

COUNTRY MAIN ROADS FUND—GENERAL PURPOSES—continued

SUMMARY OF EXPENDITURE FROM DEPARTMENT'S FUNDS ON CONSTRUCTION AND RECONSTRUCTION WORKS-continued

(ii) State Highways-continued

ity, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount
		·			\$
		BRUXNER HIGH	WAY—continued		
aroi	16 16	9m. to 12m. east of Boggabilla	Reconstruction and bitumen surfacing Reinforced concrete box culvert	Council	18,25 4,25
	10			-	\$865,60
				I	
		NEWELL I			
d	17	20m. to 24m. north of Ardlethan	Reconstruction	Department	1,62
	17 17	Approaches to Scott and Mandamah Creek Bridges 20m. to 24m. north of Ardiethan	Bitumen sealing Reconstruction and bitumen surfacing	do do	18,34 47
	17	15.15m. to 20m. north of Ardiethan	do	do do	5.60
ooroo	17	Mungle Creek, 50.3m. north of Moree	Reinforced concrete bridge	do	3,68
	17	Tackinbri Creek, 46.7m. north of Moree	do	do	1,00
	17	19m. to 29.6m. north of Moree	Reconstruction and bitumen surfacing	do	5,5
	17	13m. to 24m. north of Moree	Treatment of edge failures	do	18.0
	17	62m. to 72m. north of Moree	Reconstruction and bitumen surfacing	do	106,7
	17 17	47m. to 54m. north of Moree	do	do	131,12 27,8
	17	6m. to 6.9m. north of Moree	do	do do	27,0
abarabran	17	56.23m. south of Narrabri	Culvert extension	do	7.9
	17	Bridge over Billy Creek, 50.13m. to 51.56m. south of Narrabri	Approaches	do	46,9
	17	47m. to 57m. south of Narrabri	Reconstruction and bitumen surfacing	do	64
	17	63m. to 67m. south of Narrabri	do	do	31.6
S	17	Approach to bridge over Lake Forbes	Deviation including bitumen surfacing	Council	168,8
ang	17 17	14.8m. north of Parkes	Elimination of causeway	Department	2,11
	17	Railway Level Crossing, 2m. south of Parkes	Associated roadworks	do do	5,15
	17	Tichborne Level Crossing Tichborne Level Crossing	Widening and pavement sealing	do do	3.42
long	17	1.7m. to 3.6m. north of Forbes	Reconstruction and bitumen surfacing	Council	45.8
	17	Bundaburrah Creek, 7m. from Forbes	Widening	do	16,6
oi	17	Tooley Gully, 32.3m. south of Narrabri	Reinforced concrete box culvert	Department	2,93
	17	Box Flat Creek, 29.4m. south of Narrabri	do	do	1:
	17	1.5m. to 2.72m, north of Narrabri	Reconstruction and bitumen surfacing	do	
	17 17	54.22m. to 58.26m. south of Narrabri	do	do	84,60 2,93
oi and Coonabarabran	17	27.5m. to 37.7m. south of Narrabri	do do	do do	8.2
bri	17	Lloyd Street to Doctors Creek	do	Council	4
	.,	T Lloyd Street to Doctors Ordek			
					\$745,4
		CASTLEREAG			
e en la la constante de la const	10			I Department	3.4
amble	18 18	2m. to 9m. north of Coonamble	Reconstruction of damaged bitumen pavement Widening and bitumen surfacing	Department	3,4
ett	18	0.2m. to 2.1m. north of Gilgandra	Reconstruction and bitumen surfacing	do do	92.4
	18	12.67m. north of Walgett	Reinforced concrete box culvert	do	2
•		· · · · · · · · · · · · · · · · · · ·		·	\$130.1
		MONARO	HIGHWAY		
enluke	19	9.4m, to 11.26m, south of Nimmitabel	I Reconstruction and bitumen surfacing	Council	23.0
	19	11.26m. to 13.8m. south of Nimmitabel	do	do	17,2
	19	8m, to 10m, south of Bombala	do	do	58,7
na	19	Railway Overbridge, 0.9m. south of Cooma	Sidetrack	do	12,00
aro	19	Om. to 3.6m. south of Nimmitabel	Reconstruction and bitumen surfacing	Department	8,60
	19	3.6m. to 7.8m. south of Nimmitabel	do	do	14.86

COUNTRY MAIN ROADS FUND-GENERAL PURPOSES-continued

SUMMARY OF EXPENDITURE FROM DEPARTMENT'S FUNDS ON CONSTRUCTION AND RECONSTRUCTION WORKS-continued

(ii) State Highways-continued

colspan="2">COBB HIGHWAY eniliquin 21 Flood Channel of Edward River at Deniliquin Prestressed concrete bridge Department ay 21 46m. to 48m. north of Maama Department do indouran 21 Bridge over Billabong Creek at Wanganella Do do Approaches Council Do 21 Billabong Creek, 25.77m. north of Deniliquin Sitel and concrete bridge and approaches Council Do 21 Billabong Creek, 25.77m. north of Deniliquin Sitel and concrete bridge and approaches Council Do 21 Dillabong Creek, 25.77m. north of Deniliquin Sitel and concrete bridge and approaches Council Do 22 2.3m. north of Broken Hill Council Elimination of Floodway Council Do 22 Approaches to Abbotsford Bridge at Curlwaa Reconstruction Deconstruction Department Do 22 Im. to 11m. north of Wentworth Deviation Deviation Deviation Do 22 31.8m. to 41.8m. north of Wentworth Deviation Deviation do Do 22 31.8m. to 41.8m. north of Wentworth Deviation	22,00 4,5 37,7
marc 19 7.8m. to 10m. south of Nimmitabel Peconstruction and bitumen surfacing Department Do 19 57.5m. to 55m. south of Canberra do do do Do 19 3m. and 31.5m. south of Canberra do do do Do 19 3m. and 31.5m. south of Canberra do do do Do 19 3m. and 31.5m. south of Canberra do do do Do 19 3m. and 31.5m. south of Canberra do do do Do 19 Lenanes Creek, Z.sm. north of Michelago Prainage and restoration of damaged bitumen pavement Council do No 19 1.4m. to 8.8m. west of Berrigan Reconstruction and widening Department Council do niliquin 20 1.4m. to 8.8m. west of Berrigan Reconstruction and widening Department do	44,3 22,00 4,5 37,7 15,4 10,0 \$359,7! 3,7 12,4\$
Do 19 57.5m. to 58m. south of Canborra do do <td>44,3 22,00 4,5 37,7 15,4 10,0 \$359,7! 3,7 12,4\$</td>	44,3 22,00 4,5 37,7 15,4 10,0 \$359,7! 3,7 12,4\$
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eniliquin 20 Intersection with S.H. No. 21 at North Deniliquin Improvements Council eniliquin 21 Flood Channel of Edward River at Deniliquin COBB HIGHWAY eniliquin 21 Flood Channel of Edward River at Deniliquin Prestressed concrete bridge Department ava 21 Flood Channel of Edward River at Deniliquin Prestressed concrete bridge Department ava 21 Flood Channel of Mana Department do indouran 21 Billabong Creek at Wanganella Deportecte Do 21 Billabong Creek, 25.77m. north of Deniliquin SILVER CITY HIGHWAY roken Hill 22 2.3m. north of Broken Hill Council entworth 22 Approaches to Abbotsford Bridge at Curlwaa Reconstruction and bitumen surfacing Council Do 22 1m. to 11m. north of Wentworth do do Department do Do 22 11m. to 21.04m. north of Wentworth do Do do Department do Do 22 11m. to 41.8m. north of Wentworth do Do do Do Do	
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niliquin 21 Flood Channel of Edward River at Deniliquin Prestressed concrete bridge Department y 21 46m. to 48m. north of Maama do do ndouran 21 Bridge over Billabong Creek at Wanganella do do Do 21 Billabong Creek, 25.77m. north of Deniliquin SILVER CITY HIGHWAY Council Council Do 22 2.3m. north of Broken Hill Elimination of Floodway Reconstruction and bitumen surfacing Council notworth 22 2.3m. north of Wentworth Department do Do 22 11m. to 11m. north of Wentworth Beconstruction Beconstruction Department Do 22 31.8m. to 41.8m. north of Wentworth Department do Do 22 31.8m. to 41.8m. north of Wentworth Department do Do 22 31.8m. to 41.8m. north of Wentworth Department do Do 22 31.8m. to 41.8m. north of Wentworth Department do Do 22 31.8m. to 41.8m. north of Wentworth Do do	410,27
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oken Hill 22 2.3m. north of Broken Hill Approaches to Abbotsford Bridge at Curlwaa Elimination of Floodway Council antworth 22 1m. to 11m. north of Wentworth Reconstruction and bitumen surfacing Department Do 22 11m. to 21.04m. north of Wentworth Do Deviation Deviation do do Do 22 11m. to 21.04m. north of Wentworth Deviation do do do Do 22 31.8m. to 41.8m. north of Wentworth MOUNT LINDESAY HIGHWAY MOUNT LINDESAY HIGHWAY MOUNT LINDESAY HIGHWAY	1
	9,00 38 127,20 15,95 45 40,20 \$160,41
ogle 24 Junction with T.R. No. 83, near Woodenbong [Improvement	_
	6,90
	\$6,90
ILLAWARRA HIGHWAY	I
ngecarribee 25 2m. to 4m. east of Moss Vale Reconstruction and widening	30,08
	\$30,08
STATE HIGHWAY No. 26	I
sford 26 2.32m. to 2.77m. north of Calga Southbound lane Department Do 26 17.17m. to 19.7m. north of Calga Construction Department Do 26 Calga to Ourimbah Street lighting at intersections do	36,02 10 1,79
Total — State Highways	\$37.71

COUNTRY MAIN ROADS FUND-GENERAL PURPOSES-continued

SUMMARY OF EXPENDITURE FROM DEPARTMENT'S FUNDS ON CONSTRUCTION AND RECONSTRUCTION WORKS-continued

(iii) Trunk and Ordinary Main Roads

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amour
					\$
ercrombie	54	Perthville Level Crossing	Installation of "F" type signals	Department	8, 16,
	54 54	Georges Plains Level Crossing	do Reconstruction and bitumen surfacing		19,
00	54	19.4m, to 21.4m, south of Bathurst	do	do	30.
0	54	26.5m. to 29.8m. south of Bathurst	Deviation and culverts	do	š
0	54	Caloola Creek, 22.5m. south of Bathurst	Reinforced concrete box culvert	do	š
0	252	21.48m. to 22.38m. south of Bathurst	Reconstruction and bitumen surfacing	do	ĩ
0	252	19.5m, to 20.82m, south of Bathurst	do	do	4
00	252	Thompsons Creek, 14m, from Bathurst	Reinforced concrete bridge	do	27
ury	125	3.7m, to 5.2m. from Albury	Reconstruction and bitumen surfacing	do	2
idale City	74	Marsh Street to Taylor Street, Armidale	do	do	1
ford	63	20.25m. to 25.5m. and 31.3m. to 37.52m. north of Warialda	do	do	6
o	137	4.6m. to 7m. north of Ashford	do	do	6
o	137	2.7m. to 5.3m. north of Bonshaw	do	do	24
o	138	0m. to 1.9m. north of S.H. No. 16	Construction and bitumen surfacing	Department	31
0	187	Gramen Creek at Gramen	Prestressed concrete bridge	Council	27
lina	545	0.15m. to 0.45m. east of S.H. No. 10	Reconstruction	do	3
anald	67	60m. to 62.3m. north of Balranald	Reconstruction and bitumen surfacing	do	31
o	67	17.2m. to 22m. north of Balranald Junction with S.H. No. 14		do	17
o	583 583	No. 1 Approach Bridge, Murray River at Robinvale	do Realignment of approaches	do	5
	63	1.63m. to 3.37m. south of Barraba	Realignment of approaches		
	63	18.26m. to 20.02m. north of Barraba	Widening Reconstruction and bitumen surfacing	do do	1
0	132	34.25m. north east of Barraba	Reinforced concrete box culvert and approaches	do	8
	132	16m. to 16.75m. from Barraba	Reinforced concrete box culverts and realignment	do	0
0	132	Saveall Creek, 21m. north of Barraba	Reinforced concrete bridge and deviation	do	1
0	329	2.12m., 4.92m. and 11.03m. west of T.R. No. 63	Waterway structures and minor realignment	do	12
hurst	54	2.57m. to 3.02m. north of Bathurst	Reconstruction and bitumen surfacing	do	2
lingen	76	Dorrigo Mountain Pass, 1.9m. to 2.2m. from Thora	Improvement to alignment	do	-
0	76	Dorrigo Mountain Pass	Improvement	do	20
0	120	Dorrigo to Caramba	Realignment	do	6
rigan	363	0m. to 2m. south of Berrigan	Deviation	do	1
o	550	17m. to 21.5m. west of Shire Boundary	Reconstruction and bitumen surfacing	do	19
0	550	16m. to 19.3m. west of Carowa	do	do	6
beniuke	91	6.55m to 8.41m. east of Bombala	do	do	37
o	91	5m. to 6.55m. east of Bombala	do	do	17
o	91	Archies Flat Creek, 6.93m. east of Bombala	Reinforced concrete box culvert	Department	1
	91	Yellow Waterhole Creek, 12.8m. from Bombala	Reinforced concrete bridge and approaches	Council	16
o	91	Bridge over Gerathys Creek, 4.6m. east of Bombala	Approaches	do	_
jara	133	19.8m. to 20.8m. west of Bingara	Realignment and reconstruction	do	6
o	134	From 4.37m. north of Bingara	Reconstruction and bitumen surfacing	do	3
o	134	Whitlow Creek, 3.6m. from Bingara	Prestressed concrete bridge	do	5
nd	57 57	23.38m. to 23.81m. and 24.25m. to 24.42m. from Temora	Widening and strengthening	do	1
0	57	18.75m. to 20m., 23.2m. to 23.6m. and 24m. to 25.18m. north of	Widening	ا مد ا	4
0	57	22.45m. to 22.78m. north of Temora	Reconstruction	do do	4
o	231	15.48m. and 18.75m. from Ungarie	Drainage structures	do	4
,	231	8.2m. to 19.52m. from T.R. No. 57	Reconstruction and bitumen surfacing	do	47
,	231	4.36m. to 7.19m, north of Girral	do	do	3
0	231	9.26m. to 15.04m. north of Girral	Reconstruction and bitumen surfacing and drainage structures	do	13
dand	55	16m. to 19.5m. west of Lithgow	Reconstruction and bitumen surfacing	Department	179
0	55	Smalls Creek, 33.3m. north of Lithgow	Prestressed concrete bridge and approaches	Council	5
o	55	19.8m. north of Lithgow	Reinforced concrete box culvert	do	2
0	531	2m. to 6.3m. from Wallerawang	Widening, strengthening and sealing	do	-
0	531	5.2m. to 6.4m. north of S.H. No. 5	Reconstruction and bitumen surfacing	do	8
0	531	Wallerawang Level Crossing	Improvements	do	3
an	57	10.1m. to 11.95m. south of Nyngan	Reconstruction and bitumen surfacing	do	
o	204	21m. to 25m. north of Warren	do	do	20

* Credit

68

† For additional expenditure see Appendix No. 7.

COUNTRY MAIN ROADS FUND—GENERAL PURPOSES—continued

SUMMARY OF EXPENDITURE FROM DEPARTMENT'S FUNDS ON CONSTRUCTION AND RECONSTRUCTION WORKS-continued

(iii) Trunk and Ordinary Main Roads-continued

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount
				- <u> </u>	\$
gan	204	0.57m. to 2.19m. north of Nyngan	Reconstruction and bitumen surfacing	Council	
0	228	0.11m. to 1.27m. from Hermidale	do	do	19.00
00	424	Railway Level Crossing at Coolabah	Improvement	Department	50
olooroo	232	1.68m, to 3m, north of Moree	Widening and surfacing	Council	3.80
00	507	25.55m. west of Goondiwindi	Reconstruction and bitumen surfacing	do	3.5
omi	232	40.04m. to 42m. north of Moree	do	do	7.7
o	232	30.81m. to 31.63m. north of Moree	Reconstruction	do	7,8
prowa	56	19m. to 20m. north of Boorowa	Reconstruction and bitumen surfacing	do	27.0
0	56	18.3m. to 19m. north of Boorowa	do	do	4,37
	56	16m. to 18.3m. north of Boorowa	do	do	2,32
0	241	18.35m. to 20.55m. east of Boorowa	Reconstruction and gravelling	do	7,00
0	241	Harrys C:eek, 6.7m. east of Boorowa	Reinforced concrete bridge	do	20,00
o	241	5.93m, to 6.40m, and 5.93m, to 7.13m,	Reconstruction and bitumen surfacing	do	5,00
o	241	2.75m. to 5m. west of Boorowa	do	do	10,7
o	380	0m. to 1.7m. west of T.R. No. 56	do	do	3,0
ee	61	Level Crossing at Meeranburn, 2.15m. west of Manildra	Installation of flashing lights	do	2,9
o	237	Paling Yards Creek, 15.2m. from Orange	Reinforced concrete box culvert	do	16,2
D	237	38.53m. to 39.57m. from Orange	Reconstruction and bitumen surfacing	do	1,5
D	237	20.1m. to 22.05m. from Orange	do	do	5,0
	238	14.2m. to 14.5m. from Canowindra	Reconstruction	do	5
	238	4m. to 11m. from Canowindra	Reconstruction and bitumen surfacing	do	29,0
	310	Oakey Creek, 20m. north of Waugoola Shire Boundary	Reinforced concrete bridge	do	3,6
	310	16.42m. to 17.48m. north of Waugoola Shire Boundary	Bitumen surfacing	do	1
	377	30m. to 33m. from Orange	Reconstruction and bitumen surfacing	do	1,3
	377	36.7m. to 37.9m. from Orange	Reconstruction and realignment	do	18,9
varrina	68	Bridge over Billabong of Barwon River at Brewarrina	Construction of footway	do	5.2
	70	17.4m. to 28m. south of Brewarrina	Reconstruction	do	11,4
	70	5.3m. to 12m. north of Brewarrina	Reconstruction and bitumen surfacing	do	15,0
angong	241	Burrangong Creek	Bridge and approaches	do	16.0
	241	19m. to 21m. west of Young	Reconstruction and pavement priming	do	25,4
	241	15.2m. to 24.5m. west of Young	Reconstruction and bitumen surfacing	do	13,0
	241	24.6m. to 30.54m. west of Young	do	do	4
n	65	13.6m. to 14.6m. from Lismore	do	do	1.0
den	259	0.52m. and 0.9m. from S.H. No. 2	Two reinforced concrete box culverts	do	13.8
obolas	61	7.6m, to 8.23m. west of Orange	Reconstruction and bitumen surfacing	do	5,2
	245	Spring Hill Level Crossing	Installation of "F" type signals	do	
	245	Spring Hill Level Crossing	do	Department	10,3
	245	10.19m. to 11.77m. and 12.33m. to 13.58m. from Orange	Reconstruction and bitumen surfacing	Council	4,9
	245	2.1m. to 2.5m. from Orange	Realignment	do	7
	559	0m. to 2.62m. from S.H. No. 7 at Whileys Junction	Reconstruction and bitumen surfacing	do	2,7
	573	Kerrs Creek, 19m. from Orange	Reinforced concrete box culvert	do	2.8
	573	Calula Creek, 17.8m. north of Orange	Reinforced concrete bridges and approaches	do	2,8
	573	9m. to 11.9m. north of Orange	Reconstruction and bitumen surfacing	do	6
	573	15m. to 19m.	do	do	3,5
	573	11.9m. to 15m. from Orange	do	do	26,2
athool	80	25.4m. to 29m. south of Hillston	do	do	23,4
	80	12.57m. to 17.68m, south of Hiliston	do	do	24,9
0	149	28.52m. to 28.80m. from Woodburn	Widening and bitumen surfacing	do	1
ral Darling	68	37.6m. to 48.3m. west of Wilcannia	Reconstruction and bitumen surfacing	do	3,1
	68	8m. west of Wilcannia on S.H. No. 8 to 32.25m. south of Wilcannia	Deviation	do	5.6
	433	19.6m. west of Darnick	Construction	do	7,0
ar	61	31m. to 36m. south of Cobar	Reinforced concrete culverts	do	15,0
durn	63	14.17m. to 16.87m. north of Tamworth	Reconstruction and widening	do	15,0
Harbour	151	37m. to 38m. south of Grafton	Reconstruction and bitumen surfacing	do	44,4
	181	Bridge at 7.7m. from Webbs Creek Ferry	Approaches	do	1.1
	181	7.7m. from Webbs Creek Ferry	Reinforced concrete box culvert	do	2
	181	Bridge at 9.7m. from Webbs Creek Ferry	Approaches	do	8
>	181	9.7m. from Webbs Creek Ferry	Reinforced concrete box culvert	do	2.3

COUNTRY MAIN ROADS FUND-GENERAL PURPOSES-continued

٠

91

SUMMARY OF EXPENDITURE FROM DEPARTMENT'S FUNDS ON CONSTRUCTION AND RECONSTRUCTION WORKS-continued

(iii) Trunk and Ordinary Main Roads-continued

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount
ł				l l	\$
lo	503	41.5m. to 49.5m. north of Windsor	Asphaltic concrete pavement	Department	19,3
00	503	7.42m. to 7.8m. north of Howes Creek Bridge	Improvement and widening	do	10,8
0	503	41.35m, to 48.25m, north of Windsor	Bitumen surfacing	do	
00	519	9.1m. to 10.1m. from M.R. No. 184	Reconstruction	Council	30,1
argo	552	31m. to 35m. from Deniliquin	Reconstruction and bitumen surfacing	do	13,8
0	552	36m. to 42.1m. from Deniliquin	Reconstruction, realignment and bitumen surfacing	do	12.6
0	552	39m, to 42.1m, from Deniliguin	Reconstruction and bitumen surfacing	do	5.0
•• ·····	552	27.6m. to 32m. from Deniliquin	do	do	3,3
dobolin	230	0m. to 2.43m. from T.R. No. 57	do	do	10.0
• • • • • • • • • • • • • • • • • • • •	377	1.12m. to 5.87m. from T.R. No. 57	do	do	2,8
ilah	55	5m. to 6.3m. north of Coolah	do	do	40,7
•	55	4.2m. to 5m. north of Coolah	do	do	5,5
0	55	5.9m. north of Coolah	Reinforced concrete box culvert	do {	11.5
0	77	Ukebung Creek, 17m. west of Dunedoo	Reinforced concrete bridge and approaches	do	14.0
o	334	0.2m. to 1.35m. north of Mendooran	Reconstruction and bitumen surfacing	do	6,5
o	206	2.3m. to 4.5m. south west of Dunedoo	do	do	4,0
o	206	7.4m. to 10m. west of Dunedoo	do	do	22,0
o	206	4m. to 7.38m. west of Dunedoo	do	do	9,6
•	206	7.72m. west of Dunedoo	Reinforced concrete box culvert	do	10,4
o	334	5.8m. to 10.3m. north of Mendooran	Reconstruction	do	25,0
lamon	240	21m. to 28m. north of Coolamon	Reconstruction and bitumen surfacing	do	2,4
	243	9m. to 9.5m, east of Coolamon	Reconstruction and realignment	do	4,4
	543	South of Coolamon to Mitchell Shire Boundary	Reconstruction and bitumen surfacing	do	10,5
nabarabran	55	18.5m. to 33.5m. north of Coolah	do	do	1,1
• • • • • • • • • • • • • • • • • • •	129	1.5m. east of Coonabarabran	Replacement of old timber culvert	do	6,0
o	329	6m. to 6.85m. north of Baradine	Reconstruction and bitumen surfacing	do	4
o	329	6.9m. to 10.9m. north of Baradine	do	do	10,0
o	334	26m. to 33,73m. south of Coonabarabran	do	do	4
namble	129	6.5m. to 13.5m. east of Coonamble	do	do	45.0
D	129	From 11.35m. west of Coonamble	do	do	10,0
o	205	Baronne Creek at Dooroombah	Reinforced conc ete bridge	do	4,5
0	383	0m. to 8m. north of Coonamble	Reconstruction and bitumen surfacing	do	4
tamundra	78	1.3m. to 1.7m. north of Cootamundra	Reconstruction	do	4,0
tamundra and Jindalee	78	Cootamundry Creek, 1.37m. south of Cootamundra	Steel and concrete bridge and approaches	do	85,
manhurst	83	At 36.55m., 36.59m. and 36.64m. north of Grafton	Reinforced concrete box culverts	(do)	2,5
o	83	23.6m. to 27.9m. north of Grafton	Reconstruction and bitumen surfacing	Department	2,2
	83	Bridge over Six Mile Creek at Battens Bight	Approaches	Council	13,
o	83	13.54m. north of Grafton	Reinforced concrete bridge and approaches	do	6,7
0	150	Pulganbar Creek	do	do	2,1
o	150	22m. to 23.42m. north of Grafton	Reconstruction and bitumen surfacing	do	13,9
o	151	13.1m. to 15.1m. north of Grafton	do	do	2,
D	151	14.93m. to 16.28m. north of Grafton	Deviation	do	12,
owa	331	East of M.R. No. 131 at Daysdale Section 1	Reconstruction	do	5,
D	331	1m. to 15.15m. west of M.R. No. 131	Reconstruction and bitumen surfacing	do	16,
	550	23.3m. to 28.3m. west of Corowa	do	do	2,
kwell	54	34.31m. to 36.7m. from Goulburn	do	do	25.
	54	32.48m, to 34.31m, from Goulburn	Gravelling and bitumen surfacing	do	15,
	249	1.9m. to 4m. south of Crookwell	Reconstruction and bitumen surfacing	do	24.
	291	6m. to 9.5m. south of Crookwell	do	do	12,
jegong	55	Railway Level Crossing, 2m. south of Mudgee	do	do	
	55	Redbank Creek, 1.5m. south of Mudgee	Reinforced concrete culvert	do	. 31,
	208	10.68m, to 11.59m, from Mudgee	Reconstruction and bitumen surfacing	do	_
0	208	11.8m. to 12.8m. from Mudgee	do	do	3.
0	216	9.33m. to 10.6m. south of Mudgee	do	do	11.
	233	20.2m. to 22m. west of Gulgong	do	do	19,
	233	24.08m. to 24.10m. and 24.3m. to 24.95m. west of Guigong	Reconstruction and widening pipe culverts	do	8,
	233	19.2m. to 20.2m. west of Gulgong	Reconstruction	do	
airn	78	4m. to 4.75m. north of Culcairn	Reconstruction and bitumen surfacing	do	1.

COUNTRY MAIN ROADS FUND—GENERAL PURPOSES—continued

SUMMARY OF EXPENDITURE FROM DEPARTMENT'S FUNDS ON CONSTRUCTION AND RECONSTRUCTION WORKS-continued

(iii) Trunk and Ordinary Main Roads-continued

licaim Do Do Do Do uring	78 331 331 547	Billabong Creek at Culcairn	Steel and concrete bridge and approaches		. \$
Do Do Do Irling	331 331 547	Billabong Creek at Culcairn	1 Stool and congrete bridge and eppresence		•
Do Do Do	331 547			Council	4,00
Do Do	547	25m. to 36.1m. from Culcairn	Reconstruction and bitumen surfacing	do	2,87
Do		48.4m. to 49.2m. from Holbrook		do	1,74
rling	F 4 7	Billabong Creek, 1m. south of M.R. No. 331 Billabong Creek, 5m. north of Walla Walla	Reinforced concrete bridge	do	34,50
	547 68	S.H. No. 7 to Pokateroo	Reconstruction and bitumen surfacing	do do	4,00
Dol	405	Selected sections, 44m. to 51.1m, west of Bourke	Reconstruction		40,00
Do	405	35m. east of S.H. No. 7	Reinforced concrete box culvert	do	28 5,25
mondrille	425	2.57m. to 3.63m, east of Murrumburrah	Reconstruction and bitumen surfacing	do	5,2
Do	84	1.8m. to 2m. west of Murrumburrah	Reconstruction of bitumen surfacing	do	19.50
Do	380	10.26m. to 13.2m. east of T.R. No. 84	Reconstruction and bitumen surfacing	do	19.35
Do	380	7.6m. to 10.6m. east of T.R. No. 84	do	do	6.64
Do	380	Railway Level Crossing at Cunnigar	Improvements	do	1.32
niliquin	388	0.33m. to 1.03m. from S.H. No. 21	Reconstruction and bitumen surfacing	do	1.00
nman	208	33.34m. to 33.9m. from Muswellbrook	do	do	90
Do	209	3m. from Muswellbrook	Concrete causeway	do	3.28
00	209	14.25m. to 17m. south of Muswellbrook	Reconstruction and bitumen surfacing	do	1,83
maresq	74	39.76m. to 41.32m. east of Armidale	do	do	1,51
20	74	41.3m. to 43.6m. east of Armidale	do	do	16,05
Do	124	3.8m. west of Armidale to Shire Boundary	do	do	5,64
ngog	101	Railway Level Crossing at Dungog	Installation of "F" type signals	Department	14,74
0	101	New Bridge over Myall Creek	Approaches	Council	22,60
	101	9.1m. to 9.7m., 18.2m. to 19m. and 21m. to 21.7m. south of Dungog	Reconstruction and bitumen surfacing Reinforced concrete bridge and approaches	do	1,4
00	101 301	Myall Creek at Dungog 1.35m. to 1.8m. from Wirragulla	Realignment and bitumen surfacing	do	1,41
00	301	9m. to 9.83m. south of Wirragulla	Reconstruction and bitumen surfacing		17,01 1,84
robodalla	271	7m, from Moruya	Improvement to alignment	do	10,00
Do	271	Coopers Creek, 17.5m. from Moruya	Reinforced concrete bridge	do	6,23
Do	271	1m. to 1.9m. west of Moruya	Reconstruction and bitumen surfacing	do	3.78
Do	560	Joes Creek, 1.24m, to 1.53m, from Batemans Bay	Reinforced concrete box culvert and approaches	do	11.00
gandra	77	5.25m. to 9.75m. east of Gilgandra	Reconstruction and bitumen surfacing	do	10.00
Do	77	10.4m. to 15.5m. from Gilgandra	do	do	8,00
oucester	90	Through Town of Ganghat	Reconstruction	do	54
Do	90	10.5m. to 12m. south of Gloucester	Reconstruction and bitumen surfacing	do	2,85
Do	90	Titaatee Creek, 11.4m. east of Gloucester	Steel and reinforced concrete bridge	do	2,27
obang	57	0.1m. to 1.7m. north of Tullamore	Reconstruction and bitumen surfacing	do	5,82
0	233	7.1m. from Parkes	Reinforced concrete box culvert	do	5.00
00	233	4.5m. to 8m. from Parkes	Reconstruction and bitumen surfacing	do	10.00
)o 	348 350	40.4m. to 41.7m. from Peak Hill towards Tullamore	do	do	21,93
	56	1.15m. to 6m. north of Trundle 18.97m. to 22.1m. north of Yass	-	do	15,00
odradigbee	56	14.6m. to 17.2m. north of Yass	do	do	7,57 31,00
	249	4.8m. to 5.8m. south of Gundaroo	do		9.66
sford	225	Piles Creek, 0.5m. from S.H. No. 10	Reinforced concrete pipe culvert	do	24
0	336	4.82m. to 6.06m. east of Erina Creek	Reconstruction and bitumen surfacing	do	24.00
0	349	1.04m. to 1.46m. from S.H. No. 10	do	do	1.70
0	505	3.12m. to 3.42m. from M.R. No. 336	Reconstruction	do	29
o	505	2.19m. to 3.19m. from M.R. No. 336	Reconstruction and bitumen surfacing	do	1.70
Iburn City	54	0.98m. to 1.57m. west of Goulburn - Newton Street intersection	do	do	2,50
0	79	Auburn Street to Sloane Street, Goulburn	Reconstruction and channelisation	do	13,00
fton City	74	2.42m. to 2.94m. south of Grafton	Reconstruction and bitumen surfacing	do	1,00
•	74	3.81m. south of Grafton	Multi-cell pipe culvert	do	1,40
ater Cessnock	181	0.45m. to 0.73m. south of Wollombi	Bitumen surfacing	do	30,00
	218	Bellbird, 2.95m. south of Cessnock	Reinforced concrete box culvert	do	2.56
	220	15.075m. south of Cessnock, 0.4m. north of Lake Macquarie	Curre impressent		
ator Wellengeng	100	Boundary	Curve improvement	do	1.31
ater Wollongong	186 295	Om. to 1.08m. from S.H. No. 1	Reconstruction and widening Reinforced concrete overbridges	do	22.09 31

COUNTRY MAIN ROADS FUND-GENERAL PURPOSES-continued

SUMMARY OF EXPENDITURE FROM DEPARTMENT'S FUNDS ON CONSTRUCTION AND RECONSTRUCTION WORKS-continued

(iii) Trunk and Ordinary Main Roads-continued

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93

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City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount
		I		[[\$
reater Wollongong	502	2.2m. to 4.2m. west of M.R. No. 513	Shouder widening	Department	40,72
Do	513	7m. to 9m. west of S.H. No. 1	Climbing lane	do	8,67
Do	513	5.5m. to 6.15m. north of Wollongong	Provision of additional lane	do	97,94
Do	513	Climbing Lane, 0m to 5.8m. south of S.H. No. 1	Resheeting	do	188,10
Do	513	6.17m. to 6.57m. south of Northern Junction with S.H. No. 1	Climbing lane	do	17,66
Do	513	2.85m. to 4m. west of S.H. No. 1	do	do	
Do	568				
	and 581	Masters Road to intersection with M.R. No. 295	Deviation	Council	1,34
Do	581	Crown Street to Banks Street	Drainage	do	3,30
ndagai	243	14.4m. to 15.0m. from Nangus	Reconstruction and bitumen surfacing	do	
Do	278	20.75m. to 21.7m. from Tumut	Realignment, gravelling and pipe cuivert	do	1.8
Do	279	1.1m. to 3.3m, south of Gundagai	Reconstruction and bitumen surfacing	do	11,50
Do	279	3.42m. to 3.80m. south of Gundagai at Stoney Creek	Temporary sealing	do	1.00
ndurimba	65	2.96m. to 4m. east of Lismore	Reconstruction and bitumen surfacing	do	6,1
Do	147	17.43m. to 17.6m. north of Woodburn	Realignment	do	2,4
Do	147	18.3m. to 19.38m. from Woodburn	Reconstruction and bitumen surfacing including culvert	do	6,9
Do	544	Eleven Mile Creek, 7.43m. from Lismore	Reinforced concrete bridge	do	1,6
Do	544	2.32m. to 4.03m. from S.H. No. 16	Reconstruction and bitumen surfacing	do	21,7
<u>Do</u>	544	7.3m. to 8.65m. from Lismore Shire Boundary	do	do	14,2
Do	555	Tomki Creek, 14.67m. from Wardell	Reinforced concrete bridge	do	31.5
unning	249	4m. to 6m. south of Gunning	Reconstruction and bitumen surfacing	do	42,0
Do	251	6.5m. from Dalton	Realignment	do	
Do	251	Jerrowa Creek, 2m. from Dalton	Reinforced concrete bridge and approaches	do	38,0
yra	135	Willis Creek, 10.9m. west of Guyra	Reinforced concrete box culvert	do	1,1
Do	135	Jones Swamp, 17.4m. east of Guyra	Prestressed concrete bridge and approaches	do	15,2
Do	135	7.4m. to 9m. west of Guyra	Reconstruction and bitumen surfacing	do	14,0
Do	135	5.76m. to 7.49m. west of Guyra	do	do (2,5
Do	135	3.4m. to 4.81m, west of Guyra	do	do	2,2
astings	112	Gannons Creek, 0.8m. from S.H. No. 11	Concrete bridge	do	5,00
Do	112	0m. to 0.51m., 1.15m. to 1.36m. and 1.67m. from S.H. No. 11	Reconstruction and culvert	do	
Do	112	3.9m. from S.H. No. 11, towards Comboyne	Reconstruction and bitumen surfacing	do	9,2
Do	112	5.0m. to 6.72m. from S.H. No. 11, towards Comboyne	do	do	9,13
Do	112	1.36m. to 3.94m. from S.H. No. 11, towards Comboyne	do	do	8
Do	538	Camden Haven River at Kendall	Reinforced concrete bridge	do	8.8
iy	319	25.25m. to 26m. north of Windouran Shire Boundary	Reconstruction and bitumen surfacing	do	11,2
Do	514	2m. to 9m. west of Hay	Regrading	do	4,1
Do	514	19m. to 23m. west of Hay	Reconstruction and bitumen surfacing	do	1,4
<u>D</u> o	514	24m. to 28m. west of Hay	do	do	1,2
Do	514	28.25m, to 32m, from Hay	do	do	10.6
olbrook	331	17.7m. to 30.3m. east of Holbrook	do	do	24.2
me	370	13.3m. to 17.7m. north of Howlong	do	do	2 32,0
Do	547	10.6m. to 22.3m. from Albury	do	do	
Do	547	13.15m. to 13.62m. north of Albury	Improvement to curves	do	7,0 5,2
Do	57	13.15m. to 13.63m. from Albury	Improvement	do	5,2 8
abo Do	78	Intersection with M.R. No. 243	do	do	27,2
	78	13.7m. to 19.85m. north of Wagga Wagga	Reconstruction	do	27,2
	78	0.85m. to 4m. east of Junee	Reconstruction and bitumen surfacing	do do	3,1
	91	2.6m to 4.6m west of S.H. No. 1	Prestressed concrete bridge		3,1
ay Do	91	2.6m. to 4.6m. west of S.H. No. 1	Reconstruction and bitumen surfacing	do	32,0
00	276	13m. to 15.10m. west of Pambula 6m. to 11m. from S.H. No. 1			52,0
	137	1m to 29m parth of Inversil	Improvements Widening and strengthening payement		7.8
rerell	61	1m. to 2.9m. north of Inverell	Widening and strengthening pavement	do	10.6
malong Do	61	Ootha, 18.5m. east of Condobolin	Railway overbridge	do	83.2
	238	Ootha, 18.5m. east of Condobolin		Department	7.0
Do	350	3.1m. to 9m, north of Eugowra	Reconstruction and bitumen surfacing	do	10.3
-	377	7.6m. to 10.7m. north of Forbes			9,5
	377	22.7m. to 29m. west of Forbes		do	4.2
Do,	1 3//	29m. to 33.8m, west of Forbes	1 00	do	4,

COUNTRY MAIN ROADS FUND—GENERAL PURPOSES—continued

SUMMARY OF EXPENDITURE FROM DEPARTMENT'S FUNDS ON CONSTRUCTION AND RECONSTRUCTION WORKS--continued

(iii) Trunk and Ordinary Main Roads-continued

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount
		·			\$
Iderie	323	5.6m. to 13.2m. from S.H. No. 17	Reconstruction and bitumen surfacing	Council	12.34
D	552	8.3m. to 12.3m. west of Jerilderie	do	do	24.34
	552	2m. to 8.3m. west of Jerilderie	do	do	27.75
	78	5.36m, to 6.36m, north of Cootamundra	Reconstruction and widening	do	5,62
	84	24.7m. west of Murrumburrah	Realignment	do	68
	94	20m. to 22.1m. west of Murrumburrah	Reconstruction and bitumen surfacing		35.66
	84	12.23m. to 15.93m, west of Murrumburrah	Reconstruction and surfacing		12.00
	84	15.9m. to 21m. west of Murrumburrah	Reconstruction and bitumen surfacing	do	12,00
	84	Noonan Creek, 26.97m. west of Murrumburrah	Reinforced concrete box culvert	do	1,79
	84	19.3m. to 22.1m, west of Murrumburrah	Reconstruction and bitumen surfacing	do	11,58
sey	75	1.65m. to 1.95m. from S.H. No. 10	do	do	2,32
	75	Thomas Hennessy Crescent to Park Avenue	Reconstruction	do	6
a	264	9m. to 12.5m. from S.H. No. 1	Reconstruction and bitumen surfacing	do	35,00
	264	Bridge over Hyams Creek	Widening footway	do	20
mba	211	McCleods Creek, 19.95m. to 20.47m, south of Wagga Wagga	Reinforced concrete box culvert and approaches	do	1.8
-	384	15.3m. to 16.1m. south east of Wagga Wagga	Reconstruction and bitumen surfacing		8.00
		10.5m to 10,1m, South east of Wagga Wagga		· · · · ·	
	384	22.8m. to 25.6m. from Wagga Wagga	Reconstruction, bitumen surfacing and culverts		12,5
	384	10.55m. to 12.26m. from Wagga Wagga	Reconstruction	do	24,4
	384	Intersection, 4.42m. from S.H. No. 14	do	do	7
	384	15.4m. south east of Wagga Wagga	Reinforced concrete box culvert	do	8,0
	384	16.8m. to 17.3m. south east of Wagga Wagga	Realignment	do	. 9:
e	83	13m. to 19.62m. north of Casino	Reconstruction and bitumen surfacing	do	2
	83	75.28m. to 90.83m. north of Grafton	do	do	7.7
	83	6.23m. to 9.1m. north of Kyogle	do	do	9.2
	361	34.90m. south of Woodenbong	Reinforced concrete box culvert	do	1.7
	544	Railway Level Crossing at Cedar Point	Relocation and installation of "F" type signals		1.1
^		10 Fm cauth of Tattacham			
an	57	18.5m. south of Tottenham	Improvement	do	5,00
	57	16.9m. to 20m. south of Condobolin	Reconstruction and bitumen surfacing	do	25,00
•	231	21m. to 24m. east of Lake Cargelligo	do ,	do	37,8
•••••	231	21m. to 30m. east of Lake Cargelligo	do	do	16,9
	231	9m. to 16m. from Lake Cargelligo	do	do	•
	231	16m. to 23m. from Lake Cargelligo	do	do	3.3
	371	0.4m. to 1.4m. from Lake Cargelligo, towards Rankin Springs	do	do	5.0
Macquarie	217	1.5m. south of M.R. No. 509 to Shire Boundary	do	do	9.7
incoquario	217	Cockle Creek at Speers Point	Reinforced concrete bridge	Department	0,1
	325	Chilcott Street, Warners Bay	Deviation		9.0
	509	Railway Overbridge at Wyee	Construction		4.1
		10 Alma to 00 5m week of Looter	Construction		
n	80	18.42m. to 20.95m. west of Leeton	Reconstruction and bitumen surfacing	do	13,0
	539	12.03m. to 1.4m. from T.R. No. 80	Strengthening and bitumen surfacing	do	11,1
	539	1.4m. to 4.88m. from T.R. No. 80	Reconstruction and bitumen surfacing	do	37,2
ere	555	1.70m. from Lismore	Reinforced concrete box culvert	do	11,1
	555	0.7m. to 2.2m. from S.H. No. 16	Widening, alignment and bitumen surfacing	do	1,1
w	516	1.07m. to 2.06m. east of Lithgow	Climbing lanes	do	1.8
ool Plains	55	11.4m. to 13.9m. south of Mullaley	Reconstruction and bitumen surfacing	do	34.3
	55	Om. to 1.4m. south of Mullaley	Reconstruction	do	1.1
	55	Om. to 20.6m. south of S.H. No. 11	Reconstruction and bitumen surfacing	do	1,9
	73	Intersection with M.R. No. 135 at Gilgai	Widening		1.7
tyre			Widening		
	73	Through Gilgal and junction with M.R. No. 135, Stage 3	Sealing improvement	do	1.8
	134	Reedy Creek, 7.5m. north of Delungra	Prestressed concrete bridge	do	1,2
	134	6.95m. to 9.8m. south of Delungra	Reconstruction and bitumen surfacing	do	1.1
	134	9.80m. to 11.5m. south of Delungra	do	do	- 22,60
•	137	2.9m. to 4m. north of Inverell	Widening and strengthening pavement	do	1:
an	151	21.95m. to 29m. north of Grafton	Reconstruction and bitumen surfacing	do	2
	152	Coldstream Street, Yamba	Relocation and construction	do	1.0
	152	Western approach to Palmers Channel Bridge	Reconstruction and bitumen surfacing	do	3
	75	42m. west of Kempsey	Improvement and Widening		6.8
say	75	From Thomas Hennessy Crescent to Wide Street	Reconstruction and bitumen surfacing	do	2,9

COUNTRY MAIN ROADS FUND-GENERAL PURPOSES-continued

SUMMARY OF EXPENDITURE FROM DEPARTMENT'S FUNDS ON CONSTRUCTION AND RECONSTRUCTION WORKS-continued

(iii) Trunk and Ordinary Main Roads-continued

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amoun
					\$
acleay	75	29.57m. to 32m. west of Kempsey	Reconstruction and bitumen surfacing	Council	1,1
Do	75	24.19m. west of Kempsey to Bellbrook	do	do	38,2
Do	75	Pee Dee and Sheepstation Creek Bridges, 41.25m. west of Kempsey	Approaches	do	20,0
ο	75	Pee Dee and Sheepstation Creeks, 41.25m. west of Kempsey	Two reinforced concrete bridges	do	20,1
itland	218	1.68m. to 2.5m. south of S.H. No. 9	Reconstruction and bitumen surfacing	do	:
	218	2.5m. to 3.5m. south of S.H. No. 9	Realignment	do	1.1
nilla	357	8.1m. to 11m. west of Manilla	Reconstruction and bitumen surfacing	do	10,1
00	357	5.6m. to 11m. west of Manilla	do	do	20,5
00	357	Bridge over Manilla River at Manilla	Approaches	do	4,1
inning	90	25.9m. and 28.9m. west of Purfleet	Reconstruction and bitumen surfacing	do	2,1
Do	90	Wards Creek, 25.8m, from S.H. No. 10 at Purfleet	Extension of culvert	do	28,0
Do	111	0.8m. from S.H. No. 10	Realignment and extension to culvert	do	
Do	111	McCanns Corner, 6.5m. from S.H. No. 10	Curve elimination	do	13,0
rriwa	62	2.04m. to 2.35m. west of Merriwa	Realignment	do	6,0
Do	62	20m. to 23.6m, west of Merriwa	Reconstruction and bitumen surfacing	do	20,
Do	62	18m. west of Merriwa to Borambil Creek	do	do	10.
Do	214	1.55m, to 2.5m, south of T.R. No. 62	ob	do	10.
chell	78	5.8m. to 6.3m. from Wagga Wagga	Reconstruction and widening	do	5.
tagong	258	33m, to 33.5m, from S.H. No. 2	Widening	do	4.
00	258	6.05m. to 7.5m. from S.H. No. 2	Reconstruction and bitumen surfacing	do	15.
00	263	11.59m. to 12.48m. east of M.R. No. 260	do	do	1.
ong	233	26.8m. to 27.8m. from Wellington	do	do	.,
0	234	Castle Street Level Crossing, Molong	Improvement	do	1.
0	234	3.9m. to 6.5m. from S.H. No, 7	Reconstruction and bitumen surfacing	do	••
0	359	9.2m. from Molong	Improvement of crest	do	2.
0	359	1.4m. to 4m. from Molong	Reconstruction and bitumen surfacing	ob	25.
naro	394	23.65m. to 26.8m. from Berridale	do	do	2.
Iwaree	248	7.65m. to 9m. from Goulburn	do	do	1,
0	248	9.56m. to 10.83m. west of Goulburn	Partial reconstruction and surfacing	do	4.
00	248	Whiteheads Creek, 11.5m. from Goulburn	Reinforced concrete box culvert and approaches	do	7.
00	248	Dixons Creek, 10.5m. north of Goulburn	Prestressed concrete bridge and approaches	do	3.
00	256	10.8m. to 11.75m. north of Goulburn	Reconstruction and bitumen surfacing	do	20.
	256	12.6m. to 14m. from Goulburn	do	do	20,
00	256	9.9m. to 10.8m. from Goulburn			20,
-	258	18.35m. to 18.42m. from Taralga			7,
	376	14.4m. to 15.4m. from Goulburn	Improvement	do	26.
	376	12.9m. to 14m. from Goulburn			20.
	272	105m to 265m could of Bernarui			2,
-	272	1.95m. to 2.65m. south of Bermagui	do Reconstruction		18.
	341	4.7m. to 5.7m. south of Bermagui	Reconstruction		10,
	388	47m. to 50m. west of S.H. No. 21	Reconstruction and bitumen surfacing	do	5.
	66	18.8m. to 23.8m. west of Deniliquin		do	
ray Darling Div	596	27m. to 30m. east of Broken Hill	Drainage	Department	2,
rumbidgee		8m. to 10.8m. east of M.R. No. 321	Reconstruction and bitumen surfacing	Council	15,
o	596	15.94m. to 18.57m. east of M.R. No. 321	do	do	1.
	596	11.2m. to 15.9m. east of M.R. No. 321	do	do	3.
rumburrah	84	1.8m. west of Murrumburrah	do	do	
o	84	1.17m. to 1.49m. west of Murrumburrah	do	do	8
urundi	.358	Millers Creek, 15m. from S.H. No. 9	Reinforced concrete bridge	do	20,
	358	Little Jacks Creek		do	-
	358	5.09m. to 7m. from S.H. No. 9	Reconstruction and bitumen surfacing	do	3.
bucca	. 533	5.1m. from Macksville	Concrete bridge	do	20,
D	533	15m. to 15.86m. west of Macksville	Strengthen and bitumen surfacing	do	
•	533	5m. to 5.43m. from Macksville	Improvement	do	9,
noi	127	Myall Vale, 18m. west of Narrabri	Reinforced concrete box culvert	do	
o	127	17m. to 19m. west of Narrabri	Deviation	do	5,
o	. 127	19m. to 21.7m. west of Narrabri	Reconstruction and bitumen surfacing	do	
o	127	21.7m. to 25m. west of Narrabri	do	do	5,
o	127	15m. to 17m. west of Narrabri	do	do	1.

95

* Credit

COUNTRY MAIN ROADS FUND—GENERAL PURPOSES—continued

SUMMARY OF EXPENDITURE FROM DEPARTMENT'S FUNDS ON CONSTRUCTION AND RECONSTRUCTION WORKS-continued

(iii) Trunk and Ordinary Main Roads--continued

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amo
				1	\$
amoi	127	/ 46m. to 51m. west of Narrabri	Reformation and gravel surfacing	Council	
arrabri	127	0.72m. to 1.47m. west of Narrabri	Reconstruction and bitumen surfacing	do	
arraburra	241	12.07m, to 15m. east of Temora	do	do	
Do	398	2.5m. to 5m. south of Ariah Park	do	do	1
ewcastle	108	Bridge over north arm of Hunter River	Approaches (western side)	Department	
Do	217	Connection of Newcastle Road with Robert Street	Construction	Council	
Do	223	Russell Road to Chilcott Street	Reconstruction	do	1
Do	316	Williams Street to Elizabeth Street	do	do	
Do	316	Woodstock Street to Bull Street	Construction	do	
indle	105	33.8m. to 35.9m. south east of Tamworth	Reconstruction and bitumen surfacing	do	
Do	105	28.5m. to 33.6m. south of Tamworth	Gravelling and bitumen surfacing	do	3
Do	105	Selected sections, 28.5m, to 33.3m, south east of Tamworth	Reconstruction	do	1
mboida	74	62.3m. to 70.1m. south of Grafton	Reconstruction and bitumen surfacing	do	
Do	74	Nymboida to Hortons Creek	do	do	
Do	74	Goolang Creek, 20.4m. south of South Grafton	Prestressed concrete bridge and approaches	do	
Do	74	58.05m, to 59.02m, south of Grafton	Reconstruction and bitumen surfacing	do	2
peron	255	1,95m. to 2.7m. south of Oberon	do	do	4
Do	256	17.6m. to 21.2m, south of Oberon	Reconstruction	do	4
Do	256	15.6m. to 17.6m. and 14.6m. to 17.6m. south of Oberon	Reconstruction and bitumen surfacing	do	2
Do	256	0m, to 1m, south of Black Springs	do	do	
ange	526	Pinnacle Road Overbridge	Approaches	do	
trick Plains	128	Lamby Creek, 18.35m, from Singleton	Reinforced concrete bridge	do	1
Do	128	19.4m. to 20.5m. east of Singleton	Reconstruction and bitumen surfacing	do	
Do	213	Waterfall Gully	Reinforced concrete box culvert	do	
Do	213	2.42m, to 4.2m, from M.R. No. 503, towards Jerry Plains	Reconstruction and bitumen surfacing	do	3
Do	503	6.8m, to 7.66m, south of Singleton	do	do	_
Do	503	3.44m, to 4.35m, south of Singleton	do	do	
Do	503	Macdonald River, 39m. south of Singleton	Reinforced concrete bridge	Department	
el	130	Single Street, south of Werris Creek	Improvements to level crossing	do	
-	130	18,15m, to 19.29m, south of Tamworth	Reconstruction and bitumen surfacing	Council	
•	130	3.5m. to 6.4m. south of Tamworth	Widening box culverts	do	
	130	Werries Creek at Werris Creek	Prestressed concrete bridge	Department	:
	130	Timbumburi Creek, 7m, south of Tamworth	Reinforced concrete bridge	Council	:
	579	2.1m. to 2.7m. west of Werris Creek	Strengthening and surfacing	do	
	90	2m. to 3.39m. from S.H. No. 10	Reconstruction and bitumen surfacing	do	2
rt Stephens	90	12 Mile Creek to Stroud Shire Boundary		do	-
Do		0.2m. from Woodville	Taylors bridge	do	1
Do	301 301	Taylors Bridge, 0.2m, from Woodville	Approaches	do	2
Do	301	Cm. to 0.53m. west of Queanbeyan	Widening and median strip	do	-
leanbeyan	215	7.3m, to 8.4m, north of Rylstone	Reconstruction	do	2
Istone	215	2.8m. to 4.5m. south of llford	Reconstruction and bitumen surfacing	do	-
B .	54 54	0.97m, to 2.79m, south of liford	do	do	
	55 55	31.8m, south of Mudgee	Reinforced concrete bridge	Department	
	215	6.05m, to 7.05m, north of Rylstone	Reconstruction and bitumen surfacing	Council	
	62	16m. to 18m. west of Scone	do	do	
-	62	21.66m, to 25.17m, west of Scone	do	do	1
	62	Sam Owens Gully, 8.47m, west of Scone	Reinforced concrete box culvert	do	1
	105	Hunter River at Ellerston	Reinforced concrete bridge and deviation	do	4
00	105	10m. to 12.5m. west of Deepwater	Reconstruction and bitumen surfacing	do	-
ern	382	11.3m. to 14.5m. west of Glen Innes	do	do	4
	382 267	Tiangara Creek, 24m. from Huskisson	Reinforced concrete bridge	do	2
oalhaven	267	Black Forest Bridge to Shoalhaven Heads	Reconstruction and bitumen surfacing	do	1
Do			Reconstruction and bitumen surfacing	do	1
Do	293	2.47m. to 4.49m. from S.H. No. 1		do	1
ngleton	503	Through town of Singleton	Reconstruction	Departmont	5
owy River	286	20m. to 22.3m. west of Jindabyne			1
Do	286	22.3m. to 29.8m. west of Jindabyne	do Bayament restaration		3
Do	286 286	7.9m. to 20m. west of Jindabyne	Pavement restoration	ao	3.

COUNTRY MAIN ROADS FUND—GENERAL PURPOSES—continued

SUMMARY OF EXPENDITURE FROM DEPARTMENT'S FUNDS ON CONSTRUCTION AND RECONSTRUCTION WORKS-continued

(iii) Trunk and Ordinary Main Roads--continued

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount
				-	\$
Stroud	90	Wards River	Railway overbridge	Department	1,299
Do	111 289	Dunns Creek at 3.7m. and 4m. south of Forster	Reinforced concrete box culvert	Council	2,157
Do albragar	206	Bellimare Creek, 20.5m. from Dubbo	Deviation Reinforced concrete bridge	do do	7,500 10,000
Do	206	22.9m. to 25.4m. from Dubbo and Bridge over Spicers Creek	Deviation and approaches	do	13,200
allaganda	51	3m. west of Braidwood	Improvement to crest	do	13,218
Do	51	Bridge over Mongarlowe Creek, 10m. east of Braidwood	Asphaltic concrete surfacing	Department	2,419
Do	92	2.46m. to 4m. from Braidwood	Reconstruction and bitumen surfacing	Council	28,880
Do	92 92	23.3m. to 24.7m. from Braidwood	Bitumen surfacing	do	2,203 365*
Do	271	1.8m. to 3m. from Braidwood 11.9m. to 15m. from Braidwood	Reconstruction and bitumen surfacing	do	10.000
Do	72	5.5m. to 7m. south of Quirindi	Reconstruction	do	10.000
Do	72	3.7m. to 7.2m. south of Quirindi	Reconstruction and widening	do	664'
Do	129	16.5m. to 19.05m. west of Quirindi	Reconstruction and bitumen surfacing	do	7,494
aree	192	Cornwall Street to Old Wingham Road, Taree	do	do	5,121
emora	57	Temora, Railway Level Crossing at Junee Road	Installation of "F" type signals	Department	15,134
Do	57	Temora, Railway Level Crossing at Junee Road	do	Council	34'
Do enterfield Shire	57 362	Kitchener Street to Polaris Street, Temora 4m. to 6.2m. south of Urbenville	Reconstruction	do	244 6,268
erania	141	Hanging Rock Creek at Cawongla	Reinforced concrete bridge and approaches	do do	4,930
mbrebongie	89	10m. to 15m. from Narromine	Reconstruction and bitumen surfacing	do	4,232
Do	89	14.1m. to 18.7m. south of Narromine	do	do	17,000
Do	347	7.6m. to 10.1m. south west of Trangle	do	do	14,000
ntenbar	555	6.5m. to 7.84m. from S.H. No. 10	do	do	7,700
mki	83	7.03m. south of Casino	Reinforced concrete box culvert	do	6
Do	83	1.25m. to 2.25m. south of Casino	Reinforced concrete box culverts	do	9,130
Do	544 544	13.17m. to 16.24m. from Lismore 14.2m. from Lismore	Reconstruction and bitumen surfacing Reinforced concrete box culvert	do do	10,615 18,650
Do mbarumba	85	6.4m. to 14.5m. north of Tumbarumba	Preparation of pavement and bitumen surfacing	do	762
Do	85	5.7m. to 10.7m. west of Tumbarumba	Reconstruction and bitumen surfacing	do	31
Do	85	6.38m. to 8.38m. north of Tumbarumba	Reconstruction	do	827
Do	85	8.38m. to 12.72m. north of Tumbarumba	do	do	731
Do	281	M.R. No. 282 to Tintaldra	Reconstruction and bitumen surfacing	do	19,000
Do	282	11.2m. to 14m. from Tumbarumba	do	do	12,523
Do	282 282	14m. to 19.2m. from Tumbarumba	do	do	39,500 607
Do	282	8.2m. to 11.3m. south of Tumbarumba and culvert at Stoney Creek Boggy Creek, 8m. south of Tumbarumba	Reconstruction	do do	52
Do	282	Clarkes Hill, 14m, east of Tumbarumba	Reinforced concrete pipe culvert	do	200
Do	282	2m. to 6.2m. and 2.3m. to 11.15m. east of Tumbarumba	Reconstruction and bitumen surfacing	do	1,417
Do	282	Tumbarumba and Mannus Creeks	Steel and concrete bridges	do	262
mut	85	3.11m. to 6.4m. from State Highway No. 4	Reconstruction and bitumen surfacing	do	26
Do	85	Windowie Creek, near Rileys Gap	Steel and concrete bridge and approaches	do	167
Do	279	4.4m. to 5.3m. from Tumut	Reconstruction and bitumen surfacing	do	1,257 16,311
Do	279 279	6.55m. to 9.1m. from Tumut	do	do	61
Do	279	6.4m. to 11.3m. from Tumut 5.3m. to 5.55m. north of Tumut	do	do	1.024
Do	280	5.42m. to 6.38m. south of Adelong	do	do	422
Do	280	Rogers Creek, 7.5m. south of Adelong	Reinforced concrete box culvert and approaches	do	5,175
veed	142	Bridge over Tweed River at Murwillumbah	Approaches	do	14,094
Do	143	3.52m. to 4.28m. from Murwillumbah	Reconstruction and bitumen surfacing	do	3,333
Do	541	9.03m. to 10.11m. north of M.R. No. 143	do	do	19,585
marra	74	Ti-tree Creek, 6m. south of Grafton	Approaches and pipe culvert	do	3,321 821
Do	151 151	30.99m. to 31.85m. south of Grafton Kremnos Creek, 23.5m. south of Grafton	Reconstruction and bitumen surfacing Reinforced concrete bridge and approaches	do	370
Do	73	30.35m. to 35.35m. north of Uralia	Reconstruction and bitumen surfacing	do do	15,000
Do	73	35.35m. to 39.66m. north of Uralla	do	do	4,088
Do	73	15.7m. to 16.7m. north of Uralla	do	do	9,295
Do	124	Saumarez Creek, 5.5m. west of Armidale	Reinforced concrete bridge	do	7.347

97

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COUNTRY MAIN ROADS FUND—GENERAL PURPOSES—continued

5

86

SUMMARY OF EXPENDITURE FROM DEPARTMENT'S FUNDS ON CONSTRUCTION AND RECONSTRUCTION WORKS-continued

(iii) Trunk and Ordinary Main Roads-continued

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount
					\$
alla	124	17.9m. to 18.7m. west of Armidale	Strengthening and bitumen surfacing		
o	124	5.4m. to 6.2m, west of Armidale	do	. do	2
na	59	Level Crossing at Urana	Widening	. Department	
0	59	0m. to 5.8m. east of Urana	Reconstruction and bitumen surfacing		4,6
	59	Urana Creek, 0.3m. west of Urana	Prestressed and reinforced concrete bridge and approaches		1,7
	125	1.2m. to 4m. south of Urana	Reconstruction and bitumen surfacing		1,5
	131	Billabong Creek, 10.4m. south of Urana	Reinforced concrete bridge		3
	385	28.8m. to 31.5m. from Urana	Reconstruction and bitumen surfacing		8
	385	1.5m. to 5.5m. north of Urana	do	. do	34,3
e	80	1.5m. to 2.4m. and 4.2m. to 10m. east of Griffith	do		38,0
	321	0.2m. to 0.6m. from T.R. No. 80	do		1,7
ga Wagga	211	Docker Street Level Crossing	Installation of "F" type signals	. do	9,8
ol	319	19.5m. to 24.5m. from Barham	Reconstruction and bitumen surfacing		17,0
	319	24m. to 28.69m. north of Barham	do		8,3
	319	15.5m. to 20.45m. north of Barham	do	do	20,
	319	Murrain Yarrein Creek, 37m. north of Barham	Reinforced concrete bridge	do	12,0
	319	Bridge over Edward River at Moulamein	Approaches	. I do I	9,4
	386	5m. to 8m. north of T.R. No. 67	Reconstruction and bitumen surfacing		4,7
	388	42.07m. to 45m. west of Deniliquin	do		3
gett	329	Level Crossing south of Pokataroo	Improvements	. do	1
•••••	329	0m. to 3.5m. south of Pokataroo	Reconstruction and bitumen surfacing		13.2
,	343	0.3m. to 2.5m. east of Burren Junction	Deviation	do	7,1
	402	Grawin Creek, 42.4m. west of Walgett	Reinforced concrete box culvert		5,0
en	333	88m. to 99.2m. north of Warren	Reconstruction and bitumen surfacing		12,5
	333	80m. to 88m. north of Warren	do		10,0
	333	71m. to 79m. north of Warren	do	do	
goola	56	Junction, 1.9m. south of Cowra	Reconstruction	. do	7
o	56	Kangarooby Creek, near Gooloogong	Prestressed concrete bridge	. do	40,0
	56	Kangarooby Creek, near Gooloogong	Approaches	do	10,0
	576	Spring Creek, 6m. from Cowra	Steel and concrete bridge		5,0
	576	5.3m. to 9m. from Cowra	Reconstruction and bitumen surfacing		2,0
	576	8.1m. to 10.1m. from Cowra	do		30,0
din	398	18.7m, to 21.7m. from Grenfell	do	do	10,0
ngton	206	Four Mile Creek, 22m. from Dunedoo	Concrete bridge and approaches		10,0
)	206	Spicers Creek and Baragonumble Creek	Steel and concrete bridges	do	16,1
	206	Spicers Creek, 32m. from Dunedoo	Reinforced concrete bridge		26,6
	206	28.5m. to 32m. from Dunedoo	Reconstruction and bitumen surfacing		24,
	206	19m. to 20m. from Dunedoo	do		1.5
	233	19.5m. to 20.9m. from Wellington, towards Gulgong	Reconstruction	. do	11.6
	233	7.6m. to 9.7m. north of S.H. No. 7	Reconstruction and bitumen surfacing		4,0
worth	68	21.3m. to 35m. north of Wentworth	do		35,0
louran	296	50m. to 54m. west of Deniliquin	do		20.5
	296	54.5m. to 58.5m. west of Deniliquin	do		5.7
	296	46m. to 50m. west of Deniliquin			7.3
ecarribee	264 264	2.2m. to 2.7m. from S.H. No. 25	Reconstruction	do	
	264	1m. to 3m. south of S.H. No. 25			1.7
•••••••••••••••••	265	3m. to 4.68m. south of S.H. No. 25			4.6
	372	3.3m. to 4.68m. south of S.H. No. 25	Reinforced concrete box culvert		4,6
	569	1.78m. to 3m. south of S.H. No. 25	Reconstruction and widening	do	1.4
ndiliv	179	Railway Level Crossing at Maldon	Improvements	do	- 1,4
	179	Railway Level Crossing at Maldon	Installation of "F" type signals	Department	11.0
	179	5.49m. to 8.02m. from M.R. No. 178	Widening	Council	5.4
dburn	153	3.6m. and 5.0m. from S.H. No. 178	Widening Reconstruction and bitumen surfacing	do	5,4 18,4
	335	0.71m, to 1.64m, at North Entrance	Deviation	do	.0.1
ng	335		Reinforced concrete bridge	do Department	3.3
	335	The Entrance to Tuggerah Lakes Tuggerah Lakes at The Entrance	Demolition of old wooden bridge	Council	2.5
	335	Bridge over Tuggerah Lakes at The Entrance	Approaches		13.9

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COUNTRY MAIN ROADS FUND—GENERAL PURPOSES—continued

SUMMARY OF EXPENDITURE FROM DEPARTMENT'S FUNDS ON CONSTRUCTION AND RECONSTRUCTION WORKS-continued

(iii) Trunk and Ordinary Main Roads-continued

ity, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount
	· · · ·	· · · · · · · · · · · · · · · · · · ·			\$
ong	336	1m. south of M.R. No. 335 to Shire Boundary	Reconstruction	. Gouncil	1.73
0	509	Bridge over Budgewoi Creek, Budgewoi	Approaches		3,91
0	509	Dunleigh Street to Yarralla Road, Toukley	Reconstruction	. do	3.59
0	509	Doyalson to Munmorah Power Station turnoff	do		-,-
0	509	Gross Street to Wallarah Point Bridge	do		1,5
aroi	63	26.5m. to 40.28m. north of Warialda	Reconstruction and bitumen surfacing		. 21.1
>	63	26.5m. north of Warialda	Reinforced-concrete-box culvert	. do	1.0
	63	Bridge over Warialda Creek at Warialda	Approaches		11,0
owlumla	52	Amungla Creek, 11.1m. north of Queanbeyan	Reinforced concrete bridge and approaches	. do	20,0
o	584	5.29m. to 7.86m. from Queanbeyan	Reconstruction and bitumen surfacing	. do	3,0
			Total — Trunk and Ordinary Main F	loads	\$5,543,1
		(iv) Touris	ist Roads	I-	
naresq	4002	7.6m. to 9.3m. from T.R. No. 74	Bitumen surfacing	. Council	11.4
stings	4002	3m. north of Port Macquarie	Reinforced concrete bridge	do	87.8
ау	4037	Om, to 2m, from S.H. No. 1	Widening		2,4
gow	4011	0.1m. to 1m. from M.R. No. 516	Gravelling and bitumen surfacing		-,.
0	4048	Main Street to Browns Gap Road	Construction	. do	15,0
leay	4032	4.46m. to 6.21m. from Kinchela	Reconstruction and bitumen surfacing	. do	1.4
wy River	4043	M.R. No. 286 to Penderlea	do	. do	1,3
ed	4013	0 m. to 3.8m. west of M.R. No. 142	Widening and improvement	. do	18,3
0	4028	0m. to 0.64m, from S.H. No. 10	Strengthening and bitumen surfacing	. do	2,6
0	4028	Pottsville to Billinudgel, within the Shire	Construction		7,5
0	4028	0.68m. to 2m. south of Pottsville	do		20,0
arra	4049	North from Wooli Road, towards Sandon River	do		7,4
de	4041	Airport Road to Beelbangera Road	Widening and gravelling	. do	2,0
gga Wagga	4050	Williams Hill Scenic Road	Reconstruction and bitumen surfacing	do	2,0
gecarribee	4038	Carrington Falls	Drainage	do	:
н. -			Total — Tourist Roads		\$176,6
		(v) Roads other t	than Main Roads	I.	
npsey	l I	Railway Overbridge over Macleay River at Kempsey	Provision of stairway	Department	4,9
tland	1	4.15m. north of Hexham	Improvement		1.7
swellbrook Munic.		Bell Street Overbridge	Widening		19,0
wcastle		Aldyth Street to Charlestown Road	Reconstruction		30,0
0	1	South arm of Hunter River at Tourle Street, Mayfield	Steel and concrete bridge		
bragar		21.4m. to 23.5m., Dubbo to Mendaran	Reconstruction and bitumen surfacing	Council	5,0
0	1	19.4m. to 21m. from Dubbo	do		6,0
llongong		Cross Street, Corrinal	Reinforced concrete pipe culvert	do	3,8
	1	York Road, between Zerania Street and Alice Street	Reinforced concrete culverts Total — Roads other than Main Re		\$67.2
		SUM	MARY		
		-	\$ \$		
		Expressways	3,240*		
		State Highways			
		Trunk and Ordinary Main Roads			
		Tourist Roads			
		Survey, Design, Supervision and Planning, etc.	12,795,74		
		ouvey, besign, oupervision and ridnining, etc.	3,782,30		

* Credit

Appendix No. 9A

COUNTRY MAIN ROADS FUND-SPECIAL PURPOSES

SUMMARY OF EXPENDITURE FROM DEPARTMENT'S FUNDS ON CONSTRUCTION AND RECONSTRUCTION WORKS

(i) Expressways

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Construct Authorit		Amount
						\$
		SYDNEY TO NEWCA	STIE EXDRESSWAY	•		Ŧ
iosford	Х3		Reinforced concrete bridge	Department		348,675
					-	\$348,675
		SOUTHERN E			1	
ollongong	X6		Pedestrian overbridge	Department	1	40,066
			• • • • • • • • • • • • • • • • • • • •	,	-	\$40.066
			Total — Expressways			\$388,741
					I_	
		(ii) State	Highways			
		PRINCE'S				
nlay hellharbour	1	Boydtown Creek, 5.07m. south of Eden Macquarie Rivulet, 13.3m. south of Wollongong	Reinforced concrete bridge Prestressed concrete bridge	Department do		7,29 10,57
					-	\$17,86
		HUME H			I-	
amden	2	Bridge over Nepean River at Camden	Reinforced concrete substructure	Department		72,55
oulburn City	2	0.74m. to 7.93m. south of Goulburn	Construction of dual carriageway	do		130,11
Do	2 2	Goulburn to S.H. No. 3	Reconstruction	do		28,60
unning olbrook	2	Meadow Creek at Gunning Bridge over Little Billabong Creek, 24.2m. south of Tarcutta	Prestressed concrete bridge and approaches Approaches	do do		63,78 78,60
Do	2	Bridge over Billabong Creek, 29.4m. south of Tarcutta	do	do		63.24
Do	2	Billabong Creek, 30.5m, south of Tarcutta	Reinforced concrete bridge	do		36,50
ume	2	Table Top Creek, 4.5m. from Table Top	do	do		6,74
yeamba lulwaree	22	Tarcutta Creek at Tarcutta Intersection with S.H. No. 3	Prestressed concrete bridge Construction, including dual carriageway	do	•••••	44,73 428,66
Do	2	Boxers Creek, 5.5m, north of Goulburn	Reinforced concrete bridge	do do		420,000
Do	2	Intersection with S.H. No. 3	Overpass	do		10,04
ingecarribee	2	I Black Bobs Creek, 7.75m. south of Berrima	Prestressed concrete bridge	do do		21,93
				•		\$1,035,22
			AINS HIGHWAY			
undagai	4	Yaven Yaven Creek Bridge, 2.8m. east of S.H. No. 2		Department		33,38
Do nlay	4	Yaven Yaven Creek, 2.8m. east of S.H. No. 2 Parbery Creek, 2m. east of Bega		do		28,88
nlay Do	4	Warragaburra Creek, 2.5m. east of Bega	Reinforced concrete bridge and approaches Reinforced concrete box culvert	do do		22,22 6,71
nowy River	4	Bullock Head Creek, 0.5m, west of Kiandra	Reinforced concrete bridge	do		51,47
imut	4	Bridge over Gilmore Creek, 0.25m. from Gilmore	Approaches	do l		21,09
						\$163,78
		GREAT WEST	ERN HIGHWAY		•-	
Jron	5		Prestressed concrete bridge	Department	1	9.20
				· · · · · · · · · · · · · · · · · · ·		
Do	5	Frying Pan Creek, 26.4m. west of Lithgow	Reinforced concrete bridge	l do		31,68

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COUNTRY MAIN ROADS FUND-SPECIAL PURPOSES-continued

SUMMARY OF EXPENDITURE FROM DEPARTMENT'S FUNDS ON CONSTRUCTION AND RECONSTRUCTION WORKS-continued

(ii) State Highways-continued

Road			Constructing	Amount
No.		class of construction	Authority	Amount
				\$
777	28m. to 37m, south of Nyngan	Reconstruction And bitumen surfacing		276,905 231,625
7	30m, to 40m, north of Bourke	do	do	424,899
/ 7	50m. to 59m. north of Bourke	do	do	140,781 4,704
7	59m. to 61.3m. north of Bourke	do Reinforced concrete bridge	do	3.213 27.752
7	Bridge over Macquarie River	Approaches	do	116,706
7	Macquarie River at Dubbo	Reinforced concrete bridge	do	181,023 8,079
	T Bridge over ben River at Gravemont			\$1,415.687
			ł	
•			[Department	262.219
8	102m. to 111.28m. west of Cobar	do	do	88,394
8	18.9m. to 27m. west of Wilconnia	do	do	274,689 23,305
8	92.5m. to 102.5m. west of Cobar	do	do	360,789
				\$1,009,396
	NEW ENGLAN		I	
9			Department	19.282
9	Pages River at Murrurundi	Reinforced concrete bridge	do	92,430
9	Bridge over Kentucky Creek, 47.5m, north of Tamworth		1	114,975† 8,293
				\$234,980
			Ι.	
10			1 Department	29,193
10	Pine Bush Creek, 4.5m. north of Coffs Harbour	Reinforced concrete bridge	do	55,463
				9,725 35,414
10	Lower Warrell Creek, 2m. south of Macksville	do	do	298,117
	Myall River Bridge at Bulahdelah Myall River at Bulahdelah	Prestressed concrete bridge		86,567 47,159
10	Richmond River at Wardell	Reconstruction of Dolphin and Fender system	do	91,114
			1 3-	28,868 74,420
10	11.5m. to 12.5m. north of Gosford	Widening of culverts	do	16,509†
10	Bridge over Cut Rock Creek	Widening] do	49,422
			ļ	\$821,971
11	Nargon Creek, 27m. from Gilgandra	Widening Reconstruction and bitumen surfacing	Department	13,676 195,460
11	Yarras Creek, 42.76m. west of Port Macquarie	Reinforced concrete box culvert	do	5,360
11	Kings Creek, 10.81m. west of Port Macquarie	Reinforced concrete bridge and approaches	do	174,896
11	68m. to 76m. west of Port Macquarie	Reconstruction and bitumen surfacing	do	4,401
	No. 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	No. Location of Work 7 28m. to 37m. south of Nyngan 7 30m. to 30m. north of Bourke 7 30m. to 48.8m. north of Bourke 7 50m. to 59m. north of Bourke 7 50m. to 51.3m. north of Bourke 7 Bridge over Macquarie River 7 Bridge over Ball River at Claremont 8 13m. to 21m. east of Wilcannia 8 102m. to 111.28m. west of Cobar 8 12m. to 52m. east of Wilcannia 8 21m. to 52m. east of Wilcannia 8 12m. to 21m. east of Wilcannia 8 12m. to 102.5m. west of Cobar 8 92.5m. to 102.5m. west of Cobar 9 Bridge over Pages River at Murrurundi 9 Pages River at Murrurundi 9 Bridge over Kentucky Creek, 4.5m. north of Tamworth 9 Bridge over Kentucky Creek, 4.5m. north of Coffs Harbour 10 Bellingen River, south arm at Urunga 10 Bellingen River, south arm at Urunga 10 Pine Bush Creek, 2m. south of Macksville 10 Mall River at Bulandelah 10 Mall River at Bulandelah <t< td=""><td>No. Class of Construction MITCHELL HIGHWAY 7 28m. to 37m. south of Nyngan Reconstruction and bitumen surfacing 7 30m. to 40m. north of Bourke Reconstruction and bitumen surfacing 7 30m. to 55m. north of Bourke Reconstruction and bitumen surfacing 7 30m. to 55m. north of Bourke Reconstruction and bitumen surfacing 7 7 40 7 80m. to 55m. north of Bourke Reconstruction and bitumen surfacing 7 9 Bridge over Macquarie River Reinforced concrete bridge 7 9 Bridge over Macquarie River Reinforced concrete bridge 8 13m. to 21m. east of Wilcannia Reconstruction and bitumen surfacing 8 13m. to 21m. east of Wilcannia do 8 13m. to 21m. east of Wilcannia do 9 Weakleys Filt Creek at Beresfield do 9 Pages River at Mutrorundi Approaches 9 Pages River, south arm at Urunga Approaches 9 Pages River, south arm at Urunga Approaches 10 Price Rush Creek 47.5m. north of Coffs Harbour Approaches 10 Price Rush Creek 4.5m. north of Coffs Harbour Approaches 10 Pages River at Bulahdelah Prestres</td><td>No. Localion of work Class of Construction Authority MITCHELL HIGHWAY MITCHELL HIGHWAY Pacostruction Department 7 25m. to 37m. south of Nyngan Reconstruction Reconstruction Reconstruction 7 25m. to 43m. north of Bourke Go Go Go 7 25m. to 53m. north of Bourke Go Go Go 7 55m. to 54m. north of Bourke Go Go Go 7 Bridge over Magazine River Approaches Go Go 7 Bridge over Magazine River at Duboo Reconstruction and bitumen surfacing Department 8 10m. to 12m. seat of Wicannia BARRIER HIGHWAY Reconstruction and bitumen surfacing Department 8 10m. to 12m. west of Wicannia BARRIER HIGHWAY Reconstruction and bitumen surfacing Department 8 10m. to 12m. west of Wicannia Go Go Go 8 10m. to 12m. mest of Wicannia Reconstruction and bitumen surfacing Department 9 Bridge over Pages River at Murrurundi Approaches Go Go 9 Bridge over Pages River at Murrurundi Approaches Go Go 9 Bridge over Kentactly Creek, 475m. north of Tamworth Approaches</td></t<>	No. Class of Construction MITCHELL HIGHWAY 7 28m. to 37m. south of Nyngan Reconstruction and bitumen surfacing 7 30m. to 40m. north of Bourke Reconstruction and bitumen surfacing 7 30m. to 55m. north of Bourke Reconstruction and bitumen surfacing 7 30m. to 55m. north of Bourke Reconstruction and bitumen surfacing 7 7 40 7 80m. to 55m. north of Bourke Reconstruction and bitumen surfacing 7 9 Bridge over Macquarie River Reinforced concrete bridge 7 9 Bridge over Macquarie River Reinforced concrete bridge 8 13m. to 21m. east of Wilcannia Reconstruction and bitumen surfacing 8 13m. to 21m. east of Wilcannia do 8 13m. to 21m. east of Wilcannia do 9 Weakleys Filt Creek at Beresfield do 9 Pages River at Mutrorundi Approaches 9 Pages River, south arm at Urunga Approaches 9 Pages River, south arm at Urunga Approaches 10 Price Rush Creek 47.5m. north of Coffs Harbour Approaches 10 Price Rush Creek 4.5m. north of Coffs Harbour Approaches 10 Pages River at Bulahdelah Prestres	No. Localion of work Class of Construction Authority MITCHELL HIGHWAY MITCHELL HIGHWAY Pacostruction Department 7 25m. to 37m. south of Nyngan Reconstruction Reconstruction Reconstruction 7 25m. to 43m. north of Bourke Go Go Go 7 25m. to 53m. north of Bourke Go Go Go 7 55m. to 54m. north of Bourke Go Go Go 7 Bridge over Magazine River Approaches Go Go 7 Bridge over Magazine River at Duboo Reconstruction and bitumen surfacing Department 8 10m. to 12m. seat of Wicannia BARRIER HIGHWAY Reconstruction and bitumen surfacing Department 8 10m. to 12m. west of Wicannia BARRIER HIGHWAY Reconstruction and bitumen surfacing Department 8 10m. to 12m. west of Wicannia Go Go Go 8 10m. to 12m. mest of Wicannia Reconstruction and bitumen surfacing Department 9 Bridge over Pages River at Murrurundi Approaches Go Go 9 Bridge over Pages River at Murrurundi Approaches Go Go 9 Bridge over Kentactly Creek, 475m. north of Tamworth Approaches

† For additional expenditure see Appendix No. 9.

COUNTRY MAIN ROADS FUND—SPECIAL PURPOSES—continued

SUMMARY OF EXPENDITURE FROM DEPARTMENT'S FUNDS ON CONSTRUCTION AND RECONSTRUCTION WORKS-continued

(ii) State Highways---continued

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CASTLEREAGH HIGHWAY Igett 18 20m. to 32m. north of Walgett Reconstruction and bitumen sealing Department 574.9 naro 18 8.5m. to 20m. north of Walgett Reconstruction and bitumen surfacing Department 574.9 naro 18 8.5m. to 20m. north of Walgett MONARO HIGHWAY do 149.3 naro 19 Bridge over Michelago Creek, 31.65m. south of Canberra Approaches do 15.7 19 Gungoandra Creek, 46.2m. south of Canberra Approaches do 15.7 19 Gungoandra Creek, 46.2m. south of Canberra Approaches do 15.7 19 Gungoandra Creek, 1m. from Michelago Prestressed concrete bridge do 15.7 19 Michelago Creek, 1m. from Michelago Prestressed concrete bridge do 9.6 111.8 19 Michelago Creek, 1m. from Michelago Prestressed concrete bridge 15.7 19 Michelago Creek, 1m. from Michelago Prestressed concrete bridge 15.7 15.7 19 Michelago Creek, 1m. from Michelago Prestressed concrete bridge 15.7 15.7 111.8	unoi	17	Bobbiwaa Cleek, 10.6m. norm of Narrabh	Approaches			
Igett 18 20m. to 32m. north of Walgett Reconstruction and bitumen sealing Department 148 No 18 20m. to 32m. north of Walgett Reconstruction and bitumen surfacing Department 149,3 No 18 8.5m. to 20m. north of Walgett MONARO HIGHWAY 149,3 naro 19 Bridge over Michelago Creek, 31.65m. south of Canberra Approaches Department 60 19 Bridge over Gungoandra Crk., 45.9m. south of Canberra Approaches do 15.7 19 Bridge over Michelago Creek, 46.2m. south of Canberra Approaches do 15.7 19 Michelago Creek, 1m. from Michelago Prestressed concrete bridge do 9.6 111.8 111.8 111.8 111.8 111.8 111.8 10 Inchelago Creek, 1m. from Michelago Inchelago 149.3 149.3 118 19 Nichelago Creek, 1m. from Michelago 149.3 15.7 15.7 10 Michelago Creek, 1m. from Michelago 149.3 15.7 15.7 15.7 111.8 19 Michelago Creek, 1m. from Michelago 149.3 <t< td=""><td></td><td></td><td></td><td></td><td></td><td>I</td><td>\$481,21</td></t<>						I	\$481,21
No 18 8.5m. to 20m. north of Walgett 149,3 No 149,3 \$724,2 MONARO HIGHWAY 19 Bridge over Michelago Creek, 31.65m. south of Canberra Approaches 0 149,3 No 19 Bridge over Michelago Creek, 31.65m. south of Canberra Approaches 0 15.7 No 19 Bridge over Gungoandra Crk., 45.9m. to 46.5m. south of Canberra Approaches 0 15.7 No 19 Gungoandra Creek, 46.2m. south of Canberra Prestressed concrete bridge 0 0 19 Michelago Creek, 1m. from Michelago FilvERINA HIGHWAY 111.8 \$111.8 19 Riverian Image: Sine to 31m. east of Deniliquin Widening of bridges Department 54,7			CASTLEREAGI	H HIGHWAY			
MONARO HIGHWAY naro 19 Bridge over Michelago Creek, 31.65m. south of Canberra Approaches do Bridge Bridge over Gungoandra Crk, 45.9m. to 46.5m. south of Canberra Approaches do Bridge Bridge over Gungoandra Crk, 45.9m. to 46.5m. south of Canberra Approaches do Bridge Bridge over Gungoandra Crkek, 46.2m. south of Canberra Approaches do Bridge Bridge over Gungoandra Crkek, 46.2m. south of Canberra Beinforced concrete bridge Beinforced concrete bridge Bridge Bridge over Gungoandra Crkek, 46.2m. south of Canberra Beinforced concrete bridge Bridge Bridge over Gungoandra Crkek, 46.2m. south of Canberra Beinforced concrete bridge Bridge Bridge over Gungoandra Crkek, 46.2m. south of Canberra Bridge over Gungoandra Creek, 46.2m. south of Canberra Bridge over Gungoandra Creek, 46.2m. south of Canberra Approaches Bridge over Gungoandra Crkek, 46.2m. south of Canberra Bridge over Gungoandra Creek, 46.2m. south of Canberra Bridge over Gungoa	algett		20m, to 32m. north of Walgett 8.5m, to 20m, north of Walgett	Reconstruction and bitumen sealing			574,90 149,35
naro 19 Bridge over Michelago Creek, 31.65m. south of Canberra Approaches Department 81.4 no 19 Bridge over Gungoandra Crk., 45.9m. to 46.5m. south of Canberra Approaches do 15.7 no 19 Gungoandra Creek, 46.2m. south of Canberra Beinforced concrete bridge do 15.7 no 19 Michelago Creek, 1m. from Michelago Prestressed concrete bridge do 5.0 no 19 Michelago Creek, 1m. from Michelago RiveRiNA HIGHWAY 111.8 \$111.8 rigan 20 Irrigation canals, 5m. to 31m. east of Deniliquin Widening of bridges Department 54.7						-	\$724,25
naro 19 Bridge over Michelago Creek, 31.65m. south of Canberra Approaches Department 81.4 no 19 Bridge over Gungoandra Crk., 45.9m. to 46.5m. south of Canberra Approaches do 15.7 no 19 Gungoandra Creek, 46.2m. south of Canberra Beinforced concrete bridge do 15.7 no 19 Michelago Creek, 1m. from Michelago Prestressed concrete bridge do 5.0 no 19 Michelago Creek, 1m. from Michelago RiveRiNA HIGHWAY 111.8 \$111.8 rigan 20 Irrigation canals, 5m. to 31m. east of Deniliquin Widening of bridges Department 54.7						·	
19 Bridge over Gungoandra Crk., 45.9m. to 46.5m. south of Canberra bo do 15.7 19 Gungoandra Creek, 46.2m. south of Canberra rowlumla Reinforced concrete bridge do 15.7 19 Michelago Creek, 1m. from Michelago Prestressed concrete bridge do 15.7 19 Michelago Creek, 1m. from Michelago Prestressed concrete bridge do 19.3 19 Michelago Creek, 1m. from Michelago 10.3 10.3 10.3 10.3 10 Image: State Sta		10			Department	I	Q1 47
19 Gungoandra Creek, 46.2m. south of Canberra Reinforced concrete bridge do							15,70
rowlumla 19 Michelago Creek, 1m. from Michelago		19	Gungoandra Creek, 46.2m. south of Canberra	Reinforced concrete bridge	do		5,02
rigan 20 Irrigation canals, 5m. to 31m. east of Deniliquin Widening of bridges	rrowlumla	19	Michelago Creek, 1m. from Michelago	Prestressed concrete bridge	do		9,69
rigan 20 Irrigation canals, 5m. to 31m. east of Deniliquin Widening of bridges							\$111,81
			N RIVERINA H	HIGHWAY			
	rrigan	20	Irrigation canals, 5m. to 31m. east of Deniliquin	Widening of bridges	Department		54,70
	-						\$54,70

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COUNTRY MAIN ROADS FUND-SPECIAL PURPOSES-continued

SUMMARY OF EXPENDITURE FROM DEPARTMENT'S FUNDS ON CONSTRUCTION AND RECONSTRUCTION WORKS-continued

(ii) State Highways-continued

	No.	Location of Work	Class of Construction	Authority	Amount
		1		_	\$
		COBB HI	GHWAY		
niliquin	21	Bridge over Edwards River	Approaches		22,41
)o	21 21	Edwards River at Deniliquin Cabbage Creek, 41m. north of Hay		. do	7,80 14,71
	- 1				\$44,94
				i	
		SILVER CITY	(HIGHWAY		
ken Hill	22 22	South Road and Gypsum Street, Broken Hill	Pavement construction of approaches	. Council	56,00
	and 81	South Road and Gypsum Street, Broken Hill	Approaches to overbridges		283,95
	22	South Road, Broken Hill	Railway overbridge	. do	97,84
ntworth	22 22	2 mile break, 2m. north of Wentworth	Prestressed concrete bridge		95,10 154,62
)o	22	Bridge over Tuckers Creek	Approaches	. do	6,86
00	22	Darling River at Wentworth	Steel and concrete bridge	. do	19,44
۰۰۰۰۰ ا	22	Bridge over Darling River at Wentworth	Approaches	. do	15,40
					\$729,25
			Total — State Highways		\$8,202,52
Do	91 55 576 81 104 104 108 503 503 503 281 142 63 295 295	Yellow Waterhole Creek, 12.8m. east of Bombala Over S.H. No. 5, 4.4m. west of Lithgow Spillway at Wyangala Dam Gypsum Street, Broken Hill Six Mile Creek, at Battens Bight, 39m. north of Grafton Bridge over Hunter River at Raymond Terrace Hunter River at Raymond Terrace North arm of Hunter River Long Weeney and Little Weeney Creeks, 55.6m. south of Singleton Bridge over Macdonald River Bridge over Macdonald River, 39m. south of Singleton Bridge over Macdonald River, 39m. south of Singleton Murray River at Tintaløra Tweed River at Murwillumbah Warialda Creek at Warialda Inner Harbour, Port Kembla Bridge No. 6, over A.I.S. Line	Reinforced concrete bridge Concrete bridge Approaches Railway overbridge Prestressed concrete bridge Approaches Reinforced concrete bridge Eastern approaches Concrete culverts Strengthening by undertrussing Approaches Extension of reinforced concrete bridge Prestressed concrete bridge Steel and reinforced concrete bridge Land acquisitions Duplication	do	53,64 90,44 15,67 67,71,71,11 23,86 91,77 99,22 22,99 5,11 17,0,0 45,57 120,67 7,99 3 3
		I A.I.S. Jetty Line at Port Kembla SUMM Expressways State Highways Trunk and Ordinary Main Roads	Overbridge	I do Roads	53 \$781,83

103

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Appendix No. 10

DEVELOPMENTAL ROADS FUND

SUMMARY OF EXPENDITURE FROM DEPARTMENT'S FUNDS ON CONSTRUCTION AND RECONSTRUCTION WORKS

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount
					\$
hford	1257	, 5.61m. to 7m. west of M.R. No. 137	Construction	Council	10,0
00	1257	7m, to 8m, west of M.R. No. 137	do	do	15,0
00	1257	8m, to 10m, west of M.R. No. 137	do	do	10,8
00	3159	Macintyre River at Bedwell Downs Crossing	Reinforced concrete box culvert	do	4,5
raba	1208	Rockey Creek, 14.7m, from Barraba	Prestressed concrete bridge	do	3,4
0	1208	20.87m. to 24.37m. east of Barraba	Deviation	do	20,0
0	1208	17.52m, to 18.07m, east of Barraba	Reconstruction	do	16,6
0	1208	20.59m, to 20.87m, east of Barraba	Construction	do	8.3
rigan	1172	5.5m, and 9m. from S.H. No. 17	Concrete bridges	do	10.0
gara	3191	12.1m. to 15.1m. south of Elcombe	Drainage structures and approaches	do	7,7
nd	1123	21.5m, to 22m, from Narriah Siding	Forming and gravelling	do	2.0
	1123	Om, to 2.5m, north of Narriah Railway Station	Forming, draining and gravelling	do	5,3
0	1123	21m, to 21.2m, and 21.5m, to 22m, north of Narriah	Gravelling	do	0,0
0	1123	15.38m. to 19.35m. north of Narriah	do	do	3.0
	123	Junction with S.H. No. 6 to 17.9m. south	do	do	2.8
0			Forming and gravelling	do	10.0
Mountains	1195	6m. to 8m. south of Blackheath			3,1
	1195	5m. to 6m. south of Blackheath	Construction		11.
in	1163	44m. to 72m. south of Nyngan	Elimination of causeways		
	1163	44m. to 72m. south of Nyngan, Darouble-Bobadah	do	do	20,
	1178	3.5m. east of Girilambone	Reinforced concrete box culvert	do	
ooroo	1287	9.05m. to 12.5m. south of S.H. No. 12	Construction	do	1.
ni	3168	Browns Creek, 40.4m. from Moree	Concrete bridge and culvert	do	5,
bolas	1219	8.5m. to 10m. from Clifton Grave	Construction	do	4,
s Harbour	1076	0.74m. to 1.02m., 1.82m. to 1.93m. and 2.8m. to 4.6m. east of			
		Brookland	Reconstruction	do	4,
	3158	Wrights Creek and 0.6m. south of St. Albans	Reinforced concrete bridge and culvert	do	
ah	1189	0m, to 11.85m, south of M.R. No. 396	Reconstruction	do	2,
	1304	0m, to 10m, east of T.R. No. 55	Bitumen surfacing	do	
	1304	0m. to 21.06m. east of T.R. No. 55	Beconstruction	do	7.
	1304	10m. to 15m. east of T.R. No. 55	do	do	1.
	1304	4.57m. to 10m, from T.R. No. 55	Reconstruction and bitumen surfacing	do	113.
		2m. to 3m. south of S.H. No. 11. towards Garrawilla	Construction	do	6.
nabarabran	1232		do	do	1.
	1309	M.R. No. 129 to Premer Estate Road		do	18.
amble	1269	50m. to 54m. from Coonamble	do		12.
)	1269	Burbie Creek, Spirey Creek and Wambelong Creek			14.
	3181	Talaga Creek on road connecting Bombara and Taloon	Construction of causeways		18.
egong	3211	Goulburn River, 28m. south west of Merriwa	Reinforced concrete bridge	do	
ng	1306	Louth to M.R. No. 405	Drainage structures	do	20.
	3163	7m. to 8m. north of Dungog	Construction	do	13,
bodalla	1206	4.62m. to 5m. from Batemans Bay	do	do	
cester	1150	23.7m. and 24.7m. north of Gloucester	Deviation	do	8,
	1150	17.5m. to 19.2m. north of Gloucester	Improvement	do	4.
	3188	Barrington River, 3m. north of Gloucester	Reinforced concrete bridge	do	7.
ang	3137	Bullock Creek	Prestressed concrete bridge and approaches	do	11,
3	1291	M.R. No. 135 to Moredun	Construction	do	13,
ngs	1261	7.7m. to 10.8m. from S.H. No. 10	Timber bridges	do	2,
	3189	Selected lengths on Kindee-Long Flat Brombin Road	Construction	do	14,
	3189	Kindee Creek	Reinforced concrete bridge	do	21,
	1045	0.45m, to 13m, from Kiah to Lower Towamba	Widening	do	3.
	1314	0m, to 11.25m, south west of M.R. No. 596	Reshaping and gravelling	do	20,
derie	3204	Stoney Creek, 4.8m. west of T.R. No. 87	Reinforced concrete bridge and approaches	do	5,0
alee		6.5m. to 7.5m. west of T.R. No. 87	Construction	do	19,
	3204	From S.H. No. 10 to Municipal Boundary	do	do	6.
osey	3151	From S.H. NO. 10 to Municipal boundary	Culvert	do	2.
mba	3167	0.8m. north of S.H. No. 14		do	16,
	3167	Tarcutta Creek, 0.62m. to 0.87m. north of S.H. No. 14	Concrete bridge and approaches		2,
	3167	Borambola Estate, 1.62m. south to 3.87m. north of S.H. No. 14	Construction		2,
	3203	0m, to 2,2m, north of Holbrook Shire Boundary	do	do	1.

† For additional expenditure see Appendi No. 7.

DEVELOPMENTAL ROADS FUND-continued

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105

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SUMMARY OF EXPENDITURE FROM DEPARTMENT'S FUNDS ON CONSTRUCTION AND RECONSTRUCTION WORKS-continued

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction		structing thority	Amoun
						\$
ogle	3180 1187	11m. to 11.96m. from T.R. No. 83	Timber beam bridges and concrete causeways			6,8
blan	1187	15.5m. to 20.5m. from T.R. No. 61	Gravelling	do	•••••	5,0
	1187	5.52m. to 10.52m. north west of T.R. No. 61	do	do		10.6
	1187	Solarted continues 0 5 from T.B. No. 61	do	do	••••••	10,0
		Selected sections, 0.5m. to 5.52m. from T.R. No. 61		do		10,
	3115	Low sections, 0m. to 12.5m. south east of M.R. No. 347	Gravelling and box culverts	do	••••••	1.
o	3115	10m. to 10.7m. from M.R. No. 347	Box culverts	do		6,
erpool Plains	1298	Within the Shire	Construction	do		З,
clean	1245	Esk River to Woody Head	Construction and approaches	do		
0	1245	5.8m. to 8.4m. from S.H. No. 10	Strengthening gravel pavement	do		2
o	1286	1.04m. to 1.99m. west of S.H. No. 10	Construction	do		16.
0	1286	0m. to 1.04m. west of S.H. No. 10	do	do		15,
ining	1150	Upper Tigroh to Lower Tigroh	do	do		5.
o	3195	41m, to 41.3m, north west of Taree	Deviation	do		
aro	1268	Jinden Creek to Big Badja Sect., 28m. to 29m. from Kybeyan River	Construction	do		11
0	1268	Jinden Creek to Big Badja	Clearing	do		4.
o ,	1268	Jinden Creek to Big Badja Sect., 29m. to 30m. from Kybeyan River	Construction	do		19,
o	3178	3.6m. to 5.8m., 9.4m. to 10.4m. and 11.3m. to 12.25m. from S.H.		-		
		No. 4	do	do		
nbulla	1214	4.1m. north west of S.H. No. 4 to Yankee Gap	do	do		1.
rav	1237	Cooey Hoo Creek	Concrete bridge and approaches	do		10,
	1272	Colligen Creek	Prestressed concrete bridge	do		6
o	1272	Tumudgery Creek	Prestressed concrete bridge and approaches	do		
rurundi	3104	Macdonalds Creek	do	do		1.
0	3213	Yarramanbah Creek on Blackville Road	Reinforced concrete bridge	do		11
mbucca	1075	2.4m. to 3.1m. from M.R. No. 533	Construction	do		5
Do	1078	16m. to 17.5m. west of Bowraville	Improvement and strengthening	do		3.
trick Plains	3173	7.3m. to 8.3m. west of Jerrys Plains	Construction	do		2,
	1233	Goonoo Creek, 0.3m. from S.H. No. 11	Reinforced concrete bridge and approaches	do		£,
rt Macquarie	3145	1.2m. to 2m. from Lake Cathie Road	Construction			2.
	3209	Om. to 2.65m. from M.R. No. 294	Construction	do	······	2.
rt Stephens		Unit to 2.0511. from M.R. No. 294	Reconstruction	do		
one	1243	0m. to 3.1m. from Pages Creek Road	do	do	••••••	14,
Do	1259	0m. to 1.3m. from Dartbrook Road	Construction	do		3,
vern	1207	Maids Valley Creek, 2.5m. north of S.H. No. 12	Reinforced concrete bridge and approaches	do	••••••	
Do	1311	11.35m. to 26.5m. north west of S.H. No. 12	Construction	do		20,
00	3192	1.25m. to 3.75m. south of Mt. Slow	do	do		13,
Do	3193	Om. to 2m. east of Mt. Mitchell	do	do		9.
owy River	1297	12.4m, to 14.6m., Jacobs Ladder to Willis at Victorian Border	Reconstruction	do		5,
Do	1297	Jacobs River, 29.8m. south of Jindabyne	Reinforced concrete bridge	do		22,
bragar	1165	Minore Railway Siding to S.H. No. 7	Construction	do		1,
narang	1309	0m. to 1.3m. south of M.R. No. 129	do	do		
terfield Shire	1164	3m. south of S.H. No. 24	Forming and gravelling	do		
nki	1125	Mongogarie Creek at Collisons	Prestressed concrete bridge	do		2,
nbarumba	1117	14.4m. to 17.2m. north of Tumbarumba	Construction	do		-,
0	1117	Schoolmasters Creek	Reinforced concrete box culvert and approaches	do		
00	1171	10.14m. to 14.4m. south of M.R. No. 281	Gravelling	do		
oʻ	1171	10.14m. to 10.78m., 12.89m. to 13.91m. and 14.53m. to 16m. east of				
		Welaregang	Construction	do		1
,	1171	8.38m. to 10.14m. from Welaregang	do	do		•
	1171	10.78m to 12.90m from Welaregang		do		
	1191	10.78m. to 12.89m. from Welaregang		do		5
		Boggy Creek	Reinforced concrete bridge			18
0	1226	Tarcutta Creek	Reinforced concrete bridge and approaches	do		18
o	1265	M.R. No. 282 at Paddys Creek to 11.59m. at O'Hares Crossing	Construction	do		
o	1265	M.R. No. 282 to Section 3 and 4m. to 4.7m.	do	do		1
	3102	Murray River at Biggara	Timber and steel bridge	do		-
nut	1215	22.52m. to 25m. south of S.H. No. 4	Construction	do		.7.
o	1215	17.51m, to 19.51m, from S.H. No. 4	do	do do		19

* Credit.

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DEVELOPMENTAL ROADS FUND-continued

SUMMARY OF EXPENDITURE FROM DEPARTMENT'S FUNDS ON CONSTRUCTION AND RECONSTRUCTION WORKS-continued

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City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount
Tumut Uralla Do Do Do Walcha Do Do Do Wellington Do Wingecarribee Wollindilly Do Wodburn Yallaroi Do Do Do Do Do Do Do Do Do Do Do Do Do	1215 3185 1106 1240 1293 1227 1282 1310 3214 1299 1302 1302 1302 1302 1299 1302 1270 1270 1290 1290		Construction do Formation and gravelling do Construction do do	Council	\$ 759* 14,000 6,000 5,400 14,700 4,225* 4,624* 3,216* 4,000 9,754 13,500 12,534 807 100 7,000 15,818 914 9,188 5,648 504,765
			lements — Appendix No. 1 (D)	— —	1,250 \$506,015

* Credit

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Appendix No. 11

COUNTY OF CUMBERLAND MAIN ROADS FUND

PAYMENTS FOR MAINTENANCE AND MINOR IMPROVEMENT OF MAIN ROADS, BRIDGES AND FERRIES DURING 1969-70

Work by Councils

Council Area	State Highways	Tourist and Ordinary Main Roads	Secondary Roads	Total
	\$	\$	\$	\$
shfield		629	7,256	7,885
Jburn		1.961*	11,527	9.566
ankstown			5,473	5,473
aulkham Hills		37.730	7,613	45,343
acktown		35,700	,,	35,700
ue Mountains	658	7,374	643*	7,389
otany		1.327*	4,635	3,308
rwood		1,098	2,740	3,838
amden		7.000	_,	7,000
amebelltown		3,798		3,798
interbury		0,700	14,730	14.730
		21.065	14,730	
ncord				21,065
		22,450	900	22,450
ummoyne		3,460	386	3,846
irfield		12,200		12,200
ornsby		45,335	5,721	51,056
Inters Hill		929	131*	798
urstville		13,876	11,017	24,893
ogarah		23,915		23,915
J-ring-gai		6,849	3,007	9,856
ane Cove			689	689
aichhardt		6,470*	12,024	5,554
verpool		12,488	1,159	13,647
anly		2.149	572*	1,577
arrickville		4,508*	2.519	1.989'
osman		4,492*	2,186	2,306
orth Sydney	515*	15,514	6,001	21,000
arramatta			3,287	3.287
enrith		8,924	6,768	15.692
andwick		9,181	8,832	18.013
ockdale		3,483*	22,859	19,376
/de		43,688	22,000	43,688
outh Sydney		11.000		11.000
rathfield				
therland		6,907	115 405	6,907
utherland	401	14,538	115,485	137,023
/dney	401	101,065	2,628	104,094
arringah		42,239		42,239
averley		42,306		42,306
illoughby		2,800		2,800
indsor			1,241	1,241
ollondilly		13,500		13,500
oollahra		9,000		9,000
	\$544	\$556,466	\$258,437	\$815,447
Allowances to Councils for supervision	n — long service	leave, etc		14,033
Total shown in Receipts and Payments	Statements A	opendix No. 1 (B)	(1)	\$829,480

Appendix No. 11A

COUNTY OF CUMBERLAND MAIN ROADS FUND

PAYMENTS FOR MAINTENANCE AND MINOR IMPROVEMENT OF MAIN ROADS, BRIDGES AND FERRIES DURING 1969-70 -

Work by Department

Road No.	Location of Work	Amount	Total
	EXPRESSWAYS	\$	\$
X1	Warringah— From Sydney Harbour Bridge northwards including landscaped area over bridge, ramps, pavements, etc.	161.043	
X3	Lane Cove Valley— From Wolseley Street to Gladesville Hospital and from Gladesville	101,045	
X6	Bridge to northern approaches Fig Tree Bridge including overpasses, loading and off-loading ramps	59,519	!
	Fraters Avenue to Holt Road including surfaced footways of Captain Cook Bridge	19.084	
Х9	Southern Cross Drive— From Epsom Road to Wentworth Avenue, including landscaped areas, pavements, etc.	19,109	
	Total — Expressways		\$258,755
	STATE HIGHWAYS		
1	Prince's Highway— May Street, St. Peters to the northern boundary of the City of Greater Wollongong at Waterfall	119.620	
	Northern boundary of the City of Greater Wollongong to Main Road No. 185 at Thirroul (boundary of County of Cumberland)	79,415	
2	Hume Highway— State Highway No. 5 (Great Western Highway) to the western boundary		199,035
	of the City of Liverpool Leppington Corner to the Nepean River at Camden including Camden Bridge (boundary of County of Cumberland)	123,813 59,493	1
			183,306

COUNTY OF CUMBERLAND MAIN ROADS FUND-continued

PAYMENTS FOR MAINTENANCE AND MINOR IMPROVEMENT OF MAIN ROADS, BRIDGES AND FERRIES DURING 1969-70-continued

Work by Department---continued

ad No.	Location of Work	Amount	Total
	STATE HIGHWAYS—continued	\$	\$
5	Great Western Highway- Johnstons Creek, Camperdown to the western boundary of the City		
	of Penrith Eastern boundary of the City of Blue Mountains to the eastern	183,587	
	boundary of Blaxland Shire at Victoria Pass	79,341	000.000
10	Pacific Highway— Alfred Street, North Sydney to Pearces Corner at State Highway		262,928
	No. 13 (Pennant Hills Road) Wahroonga State Highway No. 13 (Pennant Hills Road) Wahroonga at Pearces	34,125	
	Corner to the southern abutment of Peats Ferry Bridge	74,101	400.000
13	State Highway No. 2 (Hume Highway) at Carramar to State Highway	46.000	108,226
	No. 10 (Pacific Highway), Wahroonga at Pearces Corner	46,909	46,909
	Total — State Highways		\$800,404
	ORDINARY MAIN ROADS		
13 9	Main Road No. 200 to Main Road No. 162 at Top Ryde and from Bridge over the railway line at Epping to Main Road No. 373 (Carlingford		
154	Road) Main Road No. 184 at Windsor to 9m. south of State Highway No. 5	1,490	
155	(Great Western Highway) Main Road No. 184 at Richmond to Main Road No. 570 at Yarramundi	38,708 2,791	
158 162	Victoria Road, Ermington to Pennant Hills Road, Carlingford	10,559	
	Pittwater Road, Mona Vale to First Rocks, St. Ives	53,940 4,540	
163 164	Main Road No. 184 to Richmond Air Station Narrabeen Lagoon to Beach Road, Palm Beach, including Narrabeen	909	
	bridges Major bridges on council controlled lengths	54,313 43,357	
165 166	Glebe Island Bridge to Church Street, Parramatta	296,307	
167	(Victoria Road, Gladesville) From Griffiths Street, Hurlstone Park to Salt Pan Creek	34,165 21,952	
170	Salt Pan Creek, Bankstown to Main Road No. 512 at Liverpool Gardners Road to Bumborah Point Road, Bunnerong	21,927 16,177	
171 172	Allison Road, Randwick to La Perouse	23,775	
174	Northern side from Jersey Road, Woollahra, to Queen Street and thence full width to Main Road No. 340 (Bronte Road), Bondi Junction	4,887	
	Main Road No. 162 (Mona Vale Road), Terrey Hills, to the western end of General San Martin Drive near McCarrs Creek	6,087	
175 177	Main Road No. 171 (Bunnerong Road), Matraville to Prince Henry Hospital Om. at State Highway No. 2 (Hume Highway) to 1.40m. at the southern	1,311	
	Cross Roads to the southern boundary of Campbelltown Municipality at	2,985	
	16.91m, and from 26m, to State Highway No. 1 (Prince's Highway) at 29.98m.	53,193	
178	Main Road No. 177 Campbelltown to State Highway No. 2 (Hume Highway) at Narellan	39,264	
181 182	Main Road No. 184 at McGraths Hill to Webbs Creek Ferry Main Road No. 184 at Windsor to the Hawkesbury River including	16,645	
183	Hawkesbury River Bridge Anzac Parade, Kingsford to State Highway No. 1 (Prince's Highway),	2,271	
184	Sydenham State Highway No. 13 (Pennant Hills Road) Parramatta to State Highway	7,310	
185	No. 5 (Great Western Highway) at Mount Victoria	149,985	
190	State Highway No. 1 (Prince's Highway) at Helensburgh to State Highway No. 1 at Thirroul	153,592	
194	Bankstown Municipal boundary to Main Road No. 167 Botany Road, Mascot to Cooks River, Kyeemagh, including Cooks River	8,304	
100	Bridge Major bridges on council controlled lengths	78,893 10,222	
199	Ramsgate Road, Ramsgate to Taren Point including Captain Cook Bridge Major bridges on council controlled lengths	6,751 23,944	
200 225	Ryde Bridge to Victoria Road	5,343 1,602	
309	State Highway No. 5 (Great Western Highway) to Kissing Point Road (Main Road No. 574)	15,252	
315	Beverly Hills	18,018	
317	Main Road No. 171 (Bunnerong Road), Matraville to Marine Parade,	7,412	
327 328	Anzac Parade, Moore Park to Belmore Road, Randwick Bridge over Middle Harbour at Roseville to Main Road No. 164 (Pittwater	4,264	
344	Road), Brockvate including Roseville Bridge Main Road No. 171 (Bunnerong Road) Matraville to Frogmore Street, Mascot	53,388 9,979	
366	Entrance to Ku-ring-gai Chase at 4m. north of State Highway No. 10 (Pacific Highway) at Turramurra to Mount Colah Lodge Gates	9,979 4,693	
373	I Terrys Creek, Epping to Lane Cove River, including Lane Cove River Bridge	13,290	
393	Pacific Highway to Lane Cove River, including Lane Cove River Bridge State Highway No. 1 (Prince's Highway) at Loftus to Main Road No. 185 at Bald Hill and from State Highway) No. 1 of Waterfall to Main Road No. 185	10,520	
397 .	at Bald Hill and from State Highway No. 1 at Waterfall to Main Road No. 393 at Upper Causeway	49,495	
508	Montauban Avenue to Main Road No. 164 at Narrabeen State Highway No. 2 (Hume Highway) to Salt Pan Creek State Highway No. 1 (Prince's Highway) at Heathcote to Deadmans Creek at the houndary of Liverond City	43,931 43,276	
512	State Highway No. 1 (Prince's Highway) at Heathcote to Deadmans Creek at the boundary of Liverpool City	15,312	
515	at the boundary of Liverpool City Deadmans Creek to State Highway No. 2 (Hume Highway) at Liverpool State Highway No. 2 (Hume Highway) at Liverpool to State Highway No. 5	12,525	
516	(Great Western Highway) at Eastern Creek	41,169 1,232	
525	Main Hoad No. 1/4 (McCarrs Creek Road) at McCarrs Creek to Main Boad No. 174 pear Terrey Hills, including McCarrs Creek Bridge		
532 535	Main Road No. 165 to State Highway No. 5 at Auburn Badgerys Creek to Main Road No. 154	38,161 9,433	
536	I Maill Road No. 535 to State Mighway No. 5 (Great Western Highway) at 1	2,191	
537	St. Marys	9,667 16,939	1

COUNTY OF CUMBERLAND MAIN ROADS FUND-continued

PAYMENTS FOR MAINTENANCE AND MINOR IMPROVEMENT OF MAIN ROADS, BRIDGES AND FERRIES DURING 1969-70-continued

Work by Department-continued

Road No.	Location of Work	Amount	Total
	ORDINARY MAIN ROADS—continued	\$	\$
570	Main Road No. 155 at Agnes Banks to the eastern boundary of the City of Blue Mountains	29,183	
574 587	Main Road No. 165 (Victoria Road), Rydalme:e to Main Road No. 158 (Marsden Road) Dundas State Highway No. 10 (Pacific Highway) at Hornsby to State Highway No. 10	21,733	
592	at Asquith	726 104,132	
599	From Suspension Bridge to Babbage Road including link to Boundary Street	14,799	
	Total — Ordinary Main Roads		\$1,788,219
	SECONDARY ROADS		
2034 2071 2076	Major bridges on council controlled length Roadworks Roadworks	796 104 58	
	Total — Secondary Roads		\$958
	TOURIST ROADS	,	
4005 4020 4025 4026 4031	Main Road No. 525 (General San Martin Drive) to West Head Main Road No. 393 to Wattamolla Beach through Royal National Park Main Road No. 393 to Garie Beach through Royal National Park Main Road No. 162 to Main Road No. 191 through Lane Cove National Park Captain Cook Drive to Cape Solander	20,266 1,333 1,822 1,215 3,197	
	Total Tourist Roads		\$27,833
	SUMMARY		
	Expressways State Highways Ordinary Main Roads	258,755 800,404 1,788,219	2.847.378
	Secondary Roads Tourist Roads Bridges and ferries not on classified roads Maintenance of median strips and minor road restorations		2,847,878 958 27,833 53,076 76,785
	Supervision, testing laboratory working expenses (net), traffic striping, signpos and operating accounts, etc.	sting, suspense	1,075,066
	Total as shown in Receipts and Payments Statements — Appendix No.	1 (B) (i)	\$4,081,095

Appendix No. 12

COUNTRY MAIN ROADS FUND

PAYMENTS FOR MAINTENANCE AND MINOR IMPROVEMENT OF MAIN ROADS, BRIDGES AND FERRIES DURING 1969-70

Work by Councils

Council Area	State Highways	Trunk, Tourist and Ordinary Main Roads	Total
bercrombie	\$	\$	\$ 105
		27,195	27,195
lbury	4 4 7 0	960	960
rmidale City	4,173	730	4,903
shford	8,500	31,664	40,164
allina	400	2,478	2,878
alrana¦d	354	30,230	30,584
arraba		28,215	28,215
athurst City		4,178	4,178
ega		574	574
ellingen		31,887	31,887
errigan		31,600	31,600
ibbenluke	10,673	14,000	24,673
ingara		13,800	13,800
land		30,441	30,441
laxland		17,973	17,973
ogan	8.306	43,531	51,837
ombala	4,892	1.154	6.046
	11,292	14.015	25,307
oomi	31,500 l	61,611	93,111
oorowa	.,	33.000	33,000
0ree		33,789	33,789
owral		2,800	2,800
rewarrina		48,740	48,740
	17,120	16.386	33,506
	17,120	25.247	25.247
		32,915	32,915
yron			
amden		6,442	6,442
anobolas	1	22,760	22,760
arrathool		84,549	. 84,549
asino	3, <u>1</u> 94	5,650	8,844
entral Darling	713	61,705	62,418
obar	537	109,959	110,496
ockburn		9,000	9,000

Appendix No. 12—continued

COUNTRY MAIN ROADS FUND-continued

PAYMENTS FOR MAINTENANCE AND MINOR IMPROVEMENT OF MAIN ROADS, BRIDGES AND FERRIES DURING 1969-70—continued

Work by Councils-continued

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Council Area	State Highways	Trunk, Tourist and Ordinary Main Roads	Total
offs Harbour	\$	\$ 000	\$ 36,288
olo		36,288 118,650	118,650
nargo		9,400	9,400
olah		4,500 55,735	4,500 55,735
olamon		15,300	15,300
ooma	9,491	61 25.043	9,552 25,043
onamble		26,646	26,646
ootamundra ,		4,387	4,387 45.035
opmanhurst		45,035 18,957	45,035
wra	6,800	1,775	8,575
ookwell Idgegong		64,827 54,742	64,827 54,742
licairn		17,659	17,659
arling emondrille		105,474	105,474 25,104
niliquin	5,373	25,104 3,900	9,273
enman		39,760	39,760
ibboimaresq	2,601	52,705	2,601 52,705
ingog		57,016	57,016
robodalla		32,952	32,952
rbes Igandra	8,369	4,750 12,308	13,119 12,308
en Innes	1,000	151	1,151
oucester		19,752	19,752 49,264
oodradigbee		49,264 52,640	49,264 52,640
osford	494	45,576	46,070
afton City	306	5,167 6,411	5,167 6,717
eater Cessnock		100,541	100,541
eater Wollongong	1,000	30,000	31,000
renfell	500	1,376 16,418	1,876 16,418
Indurimba	10,061	43,284	53,345
Innedah	2,500	1,142 47,000	3,642 47,000
Jyra		22,000	22,000
astings	01 505	27,281	27,281
iy Dibrook	31,535	13,071 14,700	44,606 14,700
Jme		20,800	20,800
abo Ilay		25,200 37,807	25,200 37,807
vereli	4,418	807	5,225
malong	15,000	21,646	36,646
rilderie ndalee		11,900 23,880	11,900 23,880
Inee	0.005	3,860	3,860
ampseyama	3,335	4,612 36,689	7,947 36,689
veamba		17,603	17,603
vogle	8,711	60,461	69,172
chlan .ke Macquarie	2,000	175,955 83,581	175,955 85,581
eton		11,100	11,100
smore	10,269	18,337 3,907	28,606 3,907
verpool Plains	66,663	31,047	97,710
ockhart		31,000	31,000
ndhurstacintyre	50,973	16,134 30,801	16,134 81,774
aclean		17,285	17,285
acleay	1,000	33,680	33,680 24,505
aitlandanilla	1,000	23,505 14,000	14,000
anning		51,928	51,928
erriwa		46,706 33,865	46,706 33,865
ttagong		24,000	24,000
olong		15,371 928	15,371 928
DTGC	8,755	580	9,335
Jdgee		1,541	1,541
uliumbimby		660 47.000	660 47,000
umbulla	j l	16,645	16,645
urray		30,745 22,102	30,745 22,102
urrumbidgee urrumburrah		1,303	1,303
ırrurundi		7,514	7,514
uswellbrook Munic	370	689 21,299	1,059 21,299
imoi		71,434	71,434
arrabri	12,586	1,569	14,155
arraburraarrandera		34,196 6,700	34,196 6,700
arromine		500	500
ewcastle	16,445	31,549	47,994 26,737
undle		26,737 40,462	40,462
yngan	19	718	737
beron	001 0	27,648 3,069	27,648 6,499
rangearkes	3,430	2,000	2,000
atrick Plains		30,832	30,832
ak Hill	25,101	100 12,564	100 37,665
			37 665

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COUNTRY MAIN ROADS FUND—continued

PAYMENTS FOR MAINTENANCE AND MINOR IMPROVEMENT OF MAIN ROADS, BRIDGES AND FERRIES DURING 1969-70-continued

Work by Councils-continued

	State Highways	and Ordinary Main Roads	Total
	\$	\$	\$
t Macquarie	978	6,156	7,134
t Stephens		93,268	93,268
anbeyan		9,000	9,000
rindi		2,000	2,000
tone		45.448	45,448
		35,268	35,268
ern	13,248	15.099	28.347
llharbour	10,210	10,000	10,000
alhaven		31,216	31,216
	1.225	470	1,695
gleton	1,225	12.000	12.000
wy River			72,757
ud		72,757	
bragar		2,365	2,365
aganda		59,000	59,000
narang	5 000 I	51,465	51,465
nworth	5,203	2,081	7,284
ee	4,954	2,536	7,490
nora		89*	89*
iterfield Munic.	5,171		5,171
terfield Shire	74,049	14,119	88,168
ania	-	52,973	52,973
brebongie	1	32,660	32,660
tenbar	7.044	17.557	24,601
nki	7,097	31,531	38.628
mbarumba	-,	12.864	12.864
	302*	26.395	26,093
	002	21,167	21,167
on			22,600
eed		22,600	
narra		14,729	14,729
ll <u>l</u> a		34,148	34,148
na	1	28,500	28,500
de		74,485	74,485
gga Wagga	5,574	4,800	10,374
kool		75,053	75,053
Icha		2,818	2,818
lgett	1,200	71,760	72,960
rren		33,722	33,722
ugoola	21.000	27,188	48,188
ddin	30,000	8,722	38,722
llington	00,000	36.854	36.854
ntworth	200	32,664	32,864
	25,237	24.278	49.515
douran	20,201		2,381
igham		2,381	2,381
ngecarribee		23,959	
llondilly		49,359	49,359
odburn		14,720	14,723
png		27,073	27,073
laroi	28,474	20,542	49,016
rowlumla	2,063	51,232	53,295
35		279	279
ung		4,007	4,007
- -	\$643,174	\$4,921,656	\$5,564,830
Allowances to Councils for supervision to service			147,113
Allowances to Councils for supervision — long servi	ce leave, etc		147,113

* Credit

Appendix No. 12A

COUNTRY MAIN ROADS FUND

PAYMENTS FOR MAINTENANCE AND MINOR IMPROVEMENT OF MAIN ROADS, BRIDGES AND FERRIES DURING 1969-70

Work by Department

Road No.	Location of Work	Amount	Total
	EXPRESSWAYS	\$	\$
X6	Southern— From Main Road No. 513, 50.15m. south of Sydney to Gladstone Avenue at 2.7m. south of Wollongong, including loading and un- loading ramps	59,733	
X8	Wollongong— From State Highway No. 1 at 1.3m. south of Wollongong to the intersection with Expressway No. X6, 0.67m. from the intersection with State Highway No. 1 at North Wollongong	11,596	
	Total — Expressways		, \$71,329
	STATE HIGHWAYS		
1	Prince's Highway— Main Road No. 185 at Thirroul to the southern boundary of Shoal- haven Shire, excluding the length of 2.1m. within the City of Greater Wollongong Southern boundary of Shoalhaven Shire to the border of Victoria	432,018 228,117	660,135

COUNTRY MAIN ROADS FUND-continued

PAYMENTS FOR MAINTENANCE AND MINOR IMPROVEMENT OF MAIN ROADS, BRIDGES AND FERRIES DURING 1969-70-continued

Work by Department-continued

Road No.	Location of Work	Amount	Total
	STATE HIGHWAYS—continued	\$	\$
2	Hume Highway— Nepean River at Camden to Uringalla Creek at the eastern boundary		
	of Mulwaree Shire	282,360	
	Gunning Shire Western boundary of Gunning Shire to the western boundary of	180,819	
	Gundagai Shire at 6.39m. north of Tarcutta	293,751 134,881	
	-		891,811
3	Federal Highway— Junction with State Highway No. 2 to the northern boundary of the Australian Capital Territory		60.270
4	Snowy Mountains Highway—	40 775	69,370
	Tathra Wharf to the Junction with State Highway No. 19 at Nimmitabel 1m. west of Cooma to the northern boundary of Snowy River Shire	42,775	
	9m. north of Kiandra Northern boundary of Snowy River Shire to State Highway No. 2	93,821	
	approximately 12m. north of Tarcutta	122,836	259,432
5	Great Western Highway Eastern boundary of Blaxland Shire to State Highways Nos. 6 and 7 at Bathurst		
6	Mid Western Highway—		75,744
0	State Highway No. 5 to the western boundary of the City of Bathurst Western boundary of the City of Bathurst to the eastern boundary	380]
	of Waugoola Shire State Highway No. 17 at Marsden to the westen boundary of Bland	157,861	
	Shire	67,371 44,736	
	Major bridges on council controlled lengths	20,704	291,052
7	Mitchell Highway-	151	
	State Highway No. 5 to the western boundary of the City of Bathurst Western boundary of City of Bathurst to the eastern boundary of	101	
	Warren Shire, excluding total length of 7.2m. within the City of Orange and the Municipality of Dubbo	236,925	
	Eastern boundary of Warren Shire to the border of Queensland, excluding the length within Nyngan Municipality	164,771	401,847
8	Barrier Highway—		401,047
	Eastern boundary of Cobar Shire to the eastern boundary of Central Darling Shire excluding 0.8m, within the town of Cobar	28,759	
	Eastern boundary of Central Darling Shire to the border of South Australia excluding 6.5m, through the City of Broken Hill and	86,628	
	0.4m, through the town of Wilcannia		115,387
9	New England Highway— Hunter River at Hexham to Wallis Creek including Wallis Creek Bridge	29,850	
	Mount Pleasant Street, Mailland to the southern boundary of Scone Shire, excluding a total length of 1.9m. within the towns of Singleton	167,056	
	and Muswellbrook Southern boundary of Scone Shire to the northern boundary of	107,000	
	Dumaresq Shire excluding the length of 5.73m. within the City of Tamworth and 4.69m. within the City of Armidale	214,425	
	44.6m. south of Glen Innes at southern boundary of Guyra Shire to 12.3m. north of Tenterfield, excluding the length of 4.08m. within		
	the Municipality of Tenterfield	161,630	572,961
10	Pacific Highway	102,291	
	Northern boundary of Gosford Shire to Highfields Parade, Highfields Southern abutment of Ironbark Creek Bridge to the junction of State	117,549	
	Highway No. 10 and Trunk Road No. 90 Junction of State Highway No. 10 and Trunk Road No. 90 to Wang	67,997	
	Wauk River	116,451	
	excluding 3m. through the towns of Kempsey and Taree	346,896	
	Tamar Street, Ballina to the border of Queensland.	705,109	- 1,456,293
11	Oxley Highway— 1.03m, south of Port Macquarie Post Office to the eastern boundary		
	of Cockburn Shire	105,503	
	Bendemeer Eastern boundary of Coonabarabran Shire to the eastern boundary	3,439	
	of Warren Shire at Collie Eastern boundary of Warren Shire to State Highway No. 7 at	137,398	
	Nevertire	49,085	
12	Gwydir Highway— Western boundary of the City of Grafton to Camp Creek including		
	Camp Creek Bridge Camp Creek at 56.29m. east of Glen Innes to 3.24m. east of Glen	38,996	
	Innes Major bridges on council controlled length	52,186 2,069	
			- 93,251
14	Sturt Highway— State Highway No. 2 near Lower Tarcutta to eastern boundary of Murrumbidgee Shire excluding the length of 5.96m. within the City of		
	Wagga Wagga	110,943	
	Balranald Shire	131,895	
	Eastern boundary of Balranald Shire to the Murray River at 1m. south of Buronga, including Mildura Bridge but excluding 1.3m.	112,276	
	through the town of Balranaid	112,270	- 355,114

COUNTRY MAIN ROADS FUND-continued

PAYMENTS FOR MAINTENANCE AND MINOR IMPROVEMENT OF MAIN ROADS, BRIDGES AND FERRIES DURING 1969-70-continued

Work by Department-continued

oad No.	Location of Work	Amount	Total
	STATE HIGHWAYS—continued	\$	\$
15	Barton Highway— Northern boundary of the Australian Capital Territory to State Highway No. 2 near Yass		- 88.757
16	Bruxner Highway— From 0.95m, west of Casino to 49.05m, west of Casino	83,216	- 88,/5/
	Boggabilla to the border of Queensland at Goondiwindi and from 14.16m. east of Bonshaw to 1m. west of Texas	31,091	
17	Newell Highway— Murray River to the western boundary of Urana Shire	118,902	- 114,307
	Murray River to the western boundary of Urana Shire	77,091	
	Southern boundary of Goobang Shire at 8.9m, north of Forbes to Gilgandra excluding the length of 2.59m, within Dubbo Municipality Junction with State Highway No. 11 to the northern boundary of Namoi Shire, excluding the length of 3.24m, within the Narrabri	171,133	
	Municipality Southern boundary of Boolooroo Shire to Boggabilla excluding length	80,979 72,004	}
	in Moree Municipality Major bridges on council controlled length	15,507	535,616
18	Castlereagh Highway— Gilgandra to the southern boundary of Coonamble Shire Southern boundary of Coonamble Shire to the Queensland border, excluding approximately 1m. through the town of Walgett	19,732 151,245	
19	Monaro Highway—		170,977
	From the northern boundary of Monaro Shire to the southern boundary of Monaro Shire excluding 4.60m. within the Municipality of Cooma		77,998
20	Riverina Highway— Murray River at and including Bethanga Bridge to Main Road No. 299 at 61.65m. west of Albury	51,433	
	Western boundary of Corowa Shire to the eastern boundary of Deniliquin Municipality	32,041	
21	Cobb Highway	47,982	83,474
	4m. north of Hay to the boundary of Carrathool Shire near Mossgiel Southern boundary of Central Darling Shire near Mossgiel to State Highway No. 8 near Wilcannia excluding 0.20m. within the town of	51,375	
22	lvanhoe	30,013	155,970
	State Highway No. 14 at Buronga to Queensland border including spur to Abbotsford Bridge over the Murray River (0.12m.) but excluding the length between Wentworth Bridge and 1m. north and the full length of 7.01m. within the City of Broken Hill		
25	State Highway No. 1 near Macquarie Rivulet at 63.43m. from Sydney to intersection with State Highway No. 2 at Cross Roads, 94.82m. from Sydney		248,366
26	State Highway No. 10 at Calga to State Highway No. 10 at Ourimbah		82,767 70,154
	Total — State Highways		\$7,166,208
	TRUNK ROADS		
51 54	Major bridges on council controlled length	1,117 4,206	1
55	State Highway No. 5 at Marrangaroo to northern boundary of Blaxland Shire	33,933	
55 57 63	Major bridges on council controlled length Do	3,356 411 23,807	j
66	Do Boundary of Central Darling Shire at 55.6m. to the boundary of Broken Hill City at 2.5m. east of Broken Hill	26,993	
67 68	Major bridges on council controlled length	29,701 5,828	
74 78	Do Do	250 10,712]
79 81	Do From 2.2m, to 14.3m, west of Broken Hill	3,104 2,896	
83 86	Major bridges on council controlled length Do	6,451 60,481	
	Total — Trunk Roads		\$213,246
	ORDINARY MAIN ROADS		
101 102	Major bridges on council controlled length Do	44,581 52,701	
104 108	Major ferries on council controlled length Do	20,290 730,217	
111 112	Major bridges on council controlled length	3,814 2,262	
128 137	Do Do	32,275 3,091	
147 149	Major ferries on council controlled length	35,518 40,518	
151	Major bridges on council controlled length	5,680 2,761	
152 179		22,231	
181 182	Do Hawkesbury River at Windsor to Main Road No. 503 at Wilberforce	4,770	
	including Windsor Bridge	4,065	1

COUNTRY MAIN ROADS FUND-continued

PAYMENTS FOR MAINTENANCE AND MINOR IMPROVEMENT OF MAIN ROADS, BRIDGES AND FERRIES DURING 1969-70-continued

Work by Department—continued

ad No.	Location of Work	Amount	Total
	ORDINARY MAIN ROADS—continued	\$	\$
208	Major bridges on council controlled length	75	
209	Do	135	
213	Do	2,539	
217	Do	2,044	
220 226	Do	893 39,012	
232	Do	736	
233	Do	599	
237 248	Do Do	1,245 1,166	
248	Do	3,090	
253	State Highway No. 5 at Hartley to Main Road No. 520	24,282	
256	Major bridges on council controlled length	6,803	
259	Southern boundary of Camden Municipality at 2.65m. to 20.05m. west of State Highway No. 2 at Camden	73,637	
261	State Highway No. 1 near Bomaderry to the northern boundary of Shoal-		
	haven Shire	46,482	
270 272	Major bridges on council controlled length	3,056 3,883	
278	Do	200	
286	From 0.94m, west of New Jindabyne to 30.80m, at Rawson Pass	100,417	
293	State Highway No. 1 to Bomaderry railway station and branch road to railway goods yard	146	
307	Main Road No. 261 to Cambewarra Lookout	2,736	
319	Major bridges on council controlled length	16,214	
321	Do From Stote Highway No. 4 couth of Bulan Point to Stote Highway No. 4	25,207	
324	From State Highway No. 4 south of Rules Point to State Highway No. 4 west of Rules Point	5,365	
336	Major bridges on council controlled length	123	
358	Do	505	l L
367 369	Do	417 7,444	
386	Do	3,764	
399	Do	64	
403	Do Main Boad No. 429 at Wanaaring to the border of South Australia at	267	
405	Main Road No. 429 at Wanaaring to the border of South Australia at Hawker Gate	30,521	
405	Major bridges on council controlled length	6,314	
411	Do	411	
423 428	Do State Highway No. 22 at 35m. north of Broken Hill to Kayrunnera	411 8,029	
420	Northern boundary of Central Darling Shire to the western boundary of		
	Darling Shire at Willara Crossing (Paroo River)	7,359	
435	From Central Darling Shire boundary north of Wilcannia to Willaroy via	946	1
437	White Cliffs	168	
501	Do	2,323	
502	Main Road No. 513 at Wollongong to Main Road No. 179 near Wilton	70,343	I
503	Main Road No. 182 at Wilberforce to the southern boundary of Patrick Plains Shire	88,407	1
	Southern boundary of Patrick Plains Shire to Parsons Creek at 16m. south		
540	of Singleton, including Parsons Creek Bridge	91,486	
513	State Highway No. 1 at the top of Bulli Pass to State Highway No. 1 at North Wollongong	68.046	1
514	Major bridges on council controlled length	147	I
516	Eastern boundary of Blaxland Shire to the eastern boundary of the City of		
500	Lithgow Major bridges on council controlled length	2,268 3,925	1
522 556	Major bridges on council controlled length Major ferries on council controlled length	3,925 50,809	
567	Major bridges on council controlled length	4,856	
572	Do	1,265	1
575 583	Do Do	1,438 18,445	1
300			1
	Total — Ordinary Main Roads		\$1,839,085
	TOURIST ROAD		
4016	From Smiggins Holes at 0m. to Island Bend/Guthega Road at 3.08m	1	\$1,944
-		I	
	SUMMARY	74 000	I.
	Expressways	71,329 7,166,208	
	State Highways Trunk Roads	213,246	
	Ordinary Main Roads	1,839,085	
	Tourist Road	1,944	0 201 01
	'		9,291,81
	Bridges and ferries not on classified roads		161,48
	Supervision, testing laboratory working expenses (net), traffic striping, suspense and operating accounts, etc.	signposting,	1,892,62
			\$11,345,920
	Total as shown in Receipts and Payments Statements — Appendix No. 1	(U) (I)	ຸ ພາກ, ວາວ, ອຊເ

Appendix No. 13

PROCLAMATION OF MAIN ROADS 1969-70

DURING THE YEAR THE FOLLOWING NEW MAIN ROADS AND EXTENSIONS OF EXISTING MAIN ROADS WERE PROCLAIMED

City, Municipal or Shire Area	Date of Proclamation	Road No.	Description	Mileage
Fairfield	24-4-70	609	The Horsley Drive from its junction with the Hume Highway (State Highway No. 2), Carramar via Fairfield to Liverpool Road, Smithfield.	3.19
Liverpool	8-5-70	608	From the intersection of Hoxton Park Road and the Hume Highway (State Highway No. 2), northerly, via Copeland Street and deviation to Sydney Road, thence via Sydney Road, to its junction with Macquarie Street (Hume Highway — State Highway No. 2).	1.31
Wollondilly	12-6-70	610	From the Campbelltown-Bulli Pass Road (Main Road No. 177) at Appin to the Picton-North Wollongong Road (Trunk Road No. 95) near Wilton.	4.88
Wollongong and Wollondilly	12-6-70	95	From the Hume Highway (State Highway No. 2) at Picton, via Maldon, Wilton and Mount Ousley to the Prince's Highway (State Highway No. 1) at North Wollongong.	30.48

By Government Gazette of 8th May, 1970 that part of Main Road No. 515 between Elizabeth Drive and the Hume Highway (State Highway No. 2) was deproclaimed and Elizabeth Drive proclaimed Main Road No. 515 to its junction with Copeland Street (Main Road No. 608).

By Government Gazette of 12th June, 1970 the proclamation of the route of Main Road No. 179 from Picton to Main Road No. 177 at Appin was deproclaimed and that section of Main Road No. 179 between Main Road No. 177 and Main Road No. 502 was proclaimed as Main Road No. 610 and the section between the Hume Highway (State Highway No. 2) and Main Road No. 502 was proclaimed as part of Trunk Road No. 95.

By Government Gazette of 12th June, 1970 that part of Main Road No. 502 from Main Road No. 179 to Main Road No. 513 was deproclaimed and proclaimed as part of Trunk Road No. 95.

By Government Gazette of 12th June, 1970 that part of Main Road No. 513 between the Prince's Highway (State Highway No. 1) and Main Road No. 502 was deproclaimed and proclaimed as part of Trunk Road No. 95.

By Government Gazette of 26th June, 1970 the proclamation of Main Road No. 601 was altered to exclude the section from 0.5 miles north west of Fitzgerald Bridge to Raymond Terrace which becomes part of Main Road No. 104.

Appendix No. 14

DECLARATION OF SECONDARY ROADS 1969-70

DURING THE YEAR THE FOLLOWING SECONDARY ROADS WERE DECLARED OR EXISTING SECONDARY ROADS EXTENDED

City, Municipal or Shire Area	Date of Declaration	Road No.	Description	Mileage
Willoughby	24-4-70	2029	From the junction of Chandos Street (Secondary Road No. 2091) and Willoughby Road, generally northerly via Willoughby Road to its	1.37
Liverpool, Fairfield and Holroyd	24-4-70	2071	junction with Mowbray Road (Secondary Road No. 2092). From the intersection of The Horsley Drive and Liverpool Road, generally north easterly via Liverpool Road and deviation to Warren Road, thence via Warren Road and deviation to Betts Road, thence via Betts Road and deviation to Jersey Road, thence via Jersey Road and deviation to the Great Western Highway (State Highway No. 5). Wentworthville.	2.41
Fairfield	24-4-70	2088	The Horsley Drive from Mimosa Road, generally westerly to Wallgrove Road (Main Road No. 515), Horsley Park,	2.62
Willoughby and North Sydney	24-4-70	2091	From the junction of the Pacific Highway (State Highway No. 10) and Christie Street, St. Leonards, northerly via Christie Street to its junction with Chandos Street, thence easterly via Chandos Street to the Warringah Expressway, Cammeray.	0.78
Lane Cove and Willoughby	24-4-70	2092	From the junction of Epping Road (Main Road No. 373) and Centennial Avenue, Lane Cove, northerly via Centennial Avenue to its junction with Mowbray Road West, thence generally easterly via Mowbray Road West and Mowbray Road to its junction with Alpha Road, thence northerly via Alpha Road to its junction with Edinburgh Road and easterly via Edinburgh Road to the western building line of Eastern Valley Way (Main Road No. 599), Castlecrag.	2.05
Willoughby and North Sydney	24-4-70	2093	From the junction of Chandos Street (Secondary Road No. 2091) and Brook Street, generally northerly via Brook Street and Alpha Road to Mowbray Road (Secondary Road No. 2092), thence from that road northerly, via High Street to Victoria Avenue, westerly along Victoria Avenue to Penshurst Street and northerly along Penshurst Street to its junction with Boundary Street (Main Road No. 328), East Roseville.	2.93

Appendix No. 15

PROCLAMATION OF DEVELOPMENTAL ROADS 1969-70

DURING THE YEAR THE FOLLOWING NEW DEVELOPMENTAL ROADS WERE PROCLAIMED OR PROCLAMATION OF EXISTING ROADS AMENDED

City, Municipal or Shire Area	Date of Proclamation	Road No.	Description	Mileage
Walcha	4-7-69	1317	The Flags Road, between the southern approach to the Cobrabald River Bridge at 13.5 miles south of Walcha and its junction with Developmental Road No. 1227 near Topdale, a distance of 15.5 miles.	15.50

Appendix No. 15A

DEPROCLAMATION OF DEVELOPMENTAL ROADS 1969-70

DURING THE YEAR THE FOLLOWING DEVELOPMENTAL ROADS WERE DEPROCLAIMED OR PARTLY DEPROCLAIMED

City, Municipal or Shire Area	Date of Proclamation	Road No.	Description	Mileage
Peel Tomki and Kyogle	11-7-69 11-7-69	1034 1046	Road from Winton District to Westdale Siding. From the Casino-Woodenbong Road (Trunk Road No. 83) at approximately 10 miles north of Casino, generally westerly to and including the western abutment of the bridge over Eden Creek.	13.80 4.29
Boolooroo	5-9-69	1287	That part of the Biniguy-Terry Hie Hie Road from the Gwydir Highway (State Highway No. 12) near Biniguy, south for a distance of about 0.55 miles to Biniguy.	12.50
Nundle	31-10-69	1233	From the junction of the Lindsay's Gap Road and Middlebrook Road, approximately 11.1 miles east of Nundle, generally northerly and north westerly for a distance of approximately 10.25 miles to the boundary of Peel Shire.	5.84
Eurobodalla	24-4-70	1206	That part of the road from Batehaven to Rosedale, approximately 7.44 to 8.8 miles from the Prince's Highway (State Highway No. 1).	1.36
Abercrombie	24-4-70	1218	Ophir Road, from a point approximately 14 miles west of Bathurst to the Canobolas Shire boundary, being a length of approximately 5 miles.	4.90
Jemalong	22-5-70	1104	That part of the Eugowra-Grenfell Road from Main Road No. 238 at Eugowra, southerly and south westerly to Paytens Bridge over the Lachlan River, a length of 6.4 miles.	6.39
Manning	22-5-70	1292	Old Bar Road, from the Pacific Highway (State Highway No. 10) at Purfleet, generally easterly to the Bohnock turnoff a length of approximately 5.35 miles.	5.35
Bland	29-5-70	1029	From a point 10 miles south of Weethalle, generally southerly, towards Barellan terminating at the southern boundary of Bland Shire.	11.47

Appendix No. 16

PROCLAMATION OF DEVELOPMENTAL WORKS 1969-70

DURING THE YEAR THE FOLLOWING DEVELOPMENTAL WORKS WERE PROCLAIMED

City, Municipal or	Date of	Work	Description
Shire Area	Proclamation	No.	
Cudgegong	19-9-69	3216	The construction of a high level reinforced concrete bridge, 20 feet wide between kerbs, and immediate approaches at Wialdra Creek on the Gulgong-Merotherie Road.

Appendix No. 16A

DEPROCLAMATION OF DEVELOPMENTAL WORKS 1969-70

DURING THE YEAR THE FOLLOWING DEVELOPMENTAL WORKS WERE DEPROCLAIMED

City, Municipal or Shire Area	Date of Proclamation	Work No.	Description
Culcairn	11-7-69	3017	The work of construction of approximately 4 miles of the road from Culcairn to Walla Road, known as Cummings Road.
Culcairn	11-7-69	3024	The work of construction of the road from Jindera via Walla Walla to Alma Park, between 23.8 and 24.8 miles from Jindera.
Culcairn	11-7-69	3074	The work of construction of a reinforced concrete box culvert and immediate approaches over the Bucki Creek, approximately 8 miles from Henty, on the Henty-Cookardinia Road.
Denman and Patrick Plains	22-5-70	3173	The work of forming, gravelling and draining of that part of Jones Reserve Road, from the western end of Developmental Work No. 3098 at approximately 7.3 miles west of Jerrys Plains, generally north westerly for approximately 4 miles to the north eastern corner of portion 77, parish of Hunter, county of Hunter.

Appendix No. 17

MILEAGES OF EXPRESSWAYS, STATE HIGHWAYS, TRUNK ROADS, ORDINARY MAIN ROADS, SECONDARY ROADS, TOURIST ROADS AND DEVELOPMENTAL ROADS IN NEW SOUTH WALES

FOR THE FIVE YEARS ENDED 30th JUNE, 1970

	At 30th June				
-	1966	1967	1968	1969	1970
inty of Cumberland Area— Expressways State Highways Ordinary Main Roads	196 665	195 668	7 192 665	10 193 662	12 194 673
Total all Main Roads and Expressways	861	863	864	865	879
Secondary Roads Tourist Roads Developmental Roads	144 51 14	157 51 14	159 55 14	164 51 14	176 51 14
- Total all Classified Roads	1,070	1,085	1,092	1,094	1,120

MILEAGES OF EXPRESSWAYS, STATE HIGHWAYS, TRUNK ROADS, ORDINARY MAIN ROADS, SECONDARY ROADS, TOURIST ROADS AND DEVELOPMENTAL ROADS IN NEW SOUTH WALES-continued

			At 30th June		
Country Area	1966	1967	1968	1969	1970
Expressways			14	14	14
State Highways	6,334	6,353	6,349	6,342	6,345
Trunk Roads	4,159	4,232	4,228	4,210	4,245
Ordinary Main Roads	10,996	10,961	10,929	10,888	10,899
Total all Main Roads and Expressways	21,489	21,546	21,520	21,454	21,503
Tourist Roads	155	145	163	168	168
Developmental Roads	2.875	2.722	2,733	2,705	2,728
				· · · · · · · · · · · · · · · · · · ·	
Total all Classified Roads	24,519	24,413	24,416	24,327	24,399
Total for whole State					
Expressways			21	24	26*
State Highways	6,530	6.548	6,542	6,535	6.539
Trunk Roads	4,159	4,232	4,228	4,210	6,539 4,245
Ordinary Main Roads	11,661	11,629	11,593	11,550	11,572
Total all Main Roads and Expressways	22,350	22,409	22,384	22,319	22,382
Secondary Roads	144	157	159	164	176
Tourist Roads	206	196	218	219	219
Developmental Roads	2,889	2,736	2,747	2,719	2,742
Total all Classified Roads	25,589	25,498	25,508	25,421	25,519†

FOR THE FIVE YEARS ENDED 30th JUNE, 1970-continued

* Excludes a length of 3.75 miles of expressway standard road included in the total mileage of Main Roads.

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† In addition, the Department is responsible for the full cost of works on unclassified roads in the unincorporated area in the western part of the State, totalling 1,542 miles and is also responsible for a length of 30 miles in the incorporated area.

Appendix No. 18

DISTRIBUTION BETWEEN THE DEPARTMENT AND COUNCILS OF RESPONSIBILITY FOR CARE AND CONTROL OF ROADS AT 30th JUNE, 1970, IN ACCORDANCE WITH THE PROVISIONS OF THE MAIN ROADS ACT, 1924

	County of Cumberland*	Country	Total
. Roads which are the responsibility of the Department of Main Roads— (a) Where work was carried out by the Department—	miles	miles	miles
Expressways State Highways Trunk and Ordinary Main Roads in the Eastern and Central Divisions,	12 190	14 5,376	26 5,566
other than the County of Cumberland and County of Cumberland Ordinary Main Roads in the County of Cumberland	384	300	300 384
Trunk and Ordinary Main Roads Unclassified Roads (b) Where work was carried out for the Department by Councils—		471 1,542	471 1,542
State Highways Ordinary Main Roads in the County of Cumberland Roads which are the responsibility of Councils assisted by the Department of	4 289	969	973 289
Main Roads— Trunk and Ordinary Main Roads, other than in the County of Cumberland		14,373	14,373
Total	879	23,045	23,924

* County of Cumberland refers to the area defined in Part IV, Section 9 of the Main Roads Act, 1924.