

1946.
—
VICTORIA. .

STATE RIVERS AND WATER SUPPLY COMMISSION.

FORTY-FIRST
ANNUAL REPORT,
1945-46.

PRESENTED TO BOTH HOUSES OF PARLIAMENT PURSUANT TO THE PROVISIONS OF THE
WATER ACTS.

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STATE RIVERS AND WATER SUPPLY COMMISSION.

100-110 Exhibition Street,
Melbourne, C.1,
19th December, 1946.

ANNUAL REPORT, 1945-46.

In compliance with the provisions of the Water Acts, the State Rivers and Water Supply Commission has the honour to present to Parliament the following Report and Statement for the Financial Year 1945-46, and Estimates for the ensuing year.

L. R. EAST, Chairman.
M.C.E., M.Inst.C.E., M.Am.Soc.C.E., M.I.E.Aust.

H. W. McCAY, Commissioner.
B.C.E., M.I.E.Aust.

H. HANSLOW, Commissioner

L. DUGGAN, Secretary.

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ANNUAL REPORT

OF

THE STATE RIVERS AND WATER SUPPLY COMMISSION

FOR

YEAR ENDED 30TH JUNE, 1946.

PART 1.—SUMMARY OF REPORT.

GENERAL.

Page

The State Rivers and Water Supply Commission was constituted on 1st May, 1906, under the provisions of Water Act 1905.
This Report covers the period 1st July, 1945, to 30th June, 1946.

RATING.

The total net annual valuation of properties within irrigation and waterworks districts and urban districts and divisions thereof, including the Coliban System, amounted to £3,756,279, indicating a total capital value of over £75,000,000	43
The total number of rating assessments in the districts supplied with water by the Commission is 88,202	43

IRRIGATION DEVELOPMENT.

The area irrigated during the year was 656,845 acres	16 and Appendix E
The soil survey of the Nambrok-Denison irrigation area was completed and an area of 22,000 acres reported as suitable for Soldier Settlement	16
A survey of the land between Numurkah and Nathalia was carried out	16
An area of 60,000 acres in the Murray Valley District has been approved as suitable for "Soldier Settlement"	16

WATER SUPPLY.

The total capacity of water storages controlled by the Commission is 1,969,970 acre feet including Victoria's half share of River Murray storages	Appendix F
The total area of lands in Victoria supplied with water for domestic and stock purposes or for irrigation by channels, tanks, bores, and pipe lines was 15,398,700 acres	19
The Commission's storages contained 440,505 acre feet at 1st July, 1945, but at the end of the irrigation season owing to good rains they contained 1,254,170 acre feet	19
Total water deliveries for the year from the Commission's irrigation systems were 557,625 acre feet	Appendix A
Authorized diversions from streams issued under long-term licences and annual permits totalled 2,587 compared with 2,012 for 1944-45	40

TOWN SUPPLIES.

Concrete lining of channels in the Coliban System which practically ceased during the war has been resumed	34
A supply from the Wurdee Boluc Reservoir has been provided for the Township of Winchelsea ..	34
The Commission is preparing a scheme for the afforestation of 3,000 acres of the Lysterfield catchment area recently acquired by it	35
Proposals were approved for an urban supply to the Townships of Birregurra, Noorat, and Glenormiston	35

DOMESTIC AND STOCK SUPPLIES.

Owing to the low level of the storages serving the Wimmera-Mallee system at the commencement of the season the Commission had to pump water from Pine Lake and the Murray River at Nyah to supplement these storages. Subsequent good rains improved the position and ensured adequate supplies for the remainder of the season	24
Sand drift was again a major problem in the Wimmera-Mallee system and the cost of clearing channels for the 1945-46 season rose to £322,827	27
Work on the Wychitella channel system is progressing and it is anticipated that the main channel 68 miles long will be completed in readiness for the 1946-47 watering	24

PUMPING.

The work of replacing the old boilers at Red Cliffs Power Station is progressing. Tenders have been called for the supply of two modern water tube boilers	27
Great difficulty was experienced in obtaining sufficient coal and briquettes for the Red Cliffs Power Station and the Commission is awaiting with interest the result of the investigations of the State Electricity Commission to establish a central power station at Mildura	27

NEW PROPOSALS—INVESTIGATIONS AND DEVELOPMENT.

The general investigations into the resources of the State were continued with particular attention to the waters of the Broken, Campaspe, Goulburn, Loddon, Murray, and Werribee Rivers ..	28
In the Murray Valley Irrigation District, designs and plans were prepared for some 150 miles of channels involving the excavation of 640,000 cubic yards of earthworks and construction of 700 channel structures	30
Investigation and design of the channel system to supply water to the Nambrok-Denison area has continued	30
Planning of many new projects and the carrying out of current investigations has been seriously hampered by lack of staff, many of whom have resigned	14

FINANCE.

The total receipts for water rates and charges for the financial year 1945-46 amounted to £663,691, the highest collection being £763,020 in 1942-43. Other receipts amounted to £109,732 ..	60
The net Loan Liability of the State for works of water supply and drainage at 30th June, 1946, was £28,911,274, exclusive of equity in National Debt Sinking Fund	105
Of the net Loan Liability at 30th June, 1946, £1,351,531 is charged to Waterworks Trusts and other Local Governing Bodies, £1,141,609 is debited to districts directly controlled by the Commission, £72,598 is debited to the Plant and Machinery Account, and the balance £26,345,536 is borne by the State	59
The total Interest Charges for 1945-46 amounted to £1,201,646	59
Waterworks Trusts and Local Governing Bodies paid to the Treasury as interest on loans the sum of £50,751	52
In addition, interest amounting to £41,864 in respect of Districts and Divisions under its control was met by the Commission	52
In 71 districts, the capital liability of which has been adjusted, the operations for the year resulted in a net surplus of £17,584 after providing for interest, redemption, and depreciation ..	59

FINANCE—continued.

Page

A loss of £381,871 was incurred in operating districts to which the supply was continued by direction of the Governor in Council. This amount was debited to the "Revenue Expenditure Chargeable to the State Account"	59
The net cost of services of a national character and other miscellaneous charges not debited to districts was £48,045	60
The net cost to the State for Interest and Exchange, loss on districts supplied by direction of Governor in Council, and services not directly chargeable to water-users was £1,511,616 ..	59
The total expenditure during the year on water distribution, maintenance of water supply and drainage works, administration, war damage insurance, and subsidies to Sewerage Authorities, &c., was £1,113,920	58
The value of stores and equipment held in the Stores Suspense Account as at 30th June, 1946, was £198,978	53
The value of movable Plant and Machinery held in the Plant and Machinery Account as at 30th June, 1946, was £72,598	52
A statement is included showing the details of the Water Supply Works Depreciation Account, and the amounts at credit of the Water Supply Works Depreciation Fund, and Water Supply Plant and Machinery Depreciation Fund respectively	92-95
A sum of £48,420 was paid into Consolidated Revenue in respect of depreciation payments by Commission's Districts for the year 1945-46	92-95
The amount at credit of Water Supply Plant and Machinery Depreciation Fund as at 30th June, 1946 was £61,280	94
The arrears of water rates and charges outstanding at 30th June, 1946, was £451,033 ..	91
The amount included in the Budget Estimate for 1946-47 for Vote Expenditure on works and services under the control of the Commission is £975,000. This amount is less by £204,183 than the Commission's estimated requirements	106

PART II.—GENERAL.

OUTLINE OF REPORT.

This Report covers the period 1st July, 1945, to 30th June, 1946, and includes information regarding the principal undertakings of the Commission and its administration throughout the year.

Statements are inserted giving particulars of the districts supplied with water by the Commission; the annual value of the lands and tenements supplied and the numbers of persons dwelling in these districts; the water rates, the irrigation charges, and drainage and flood protection rates and charges levied; the areas of lands under irrigated culture within the State; the quantities of water delivered to districts during the year; and the capacities of the various water storages. Financial particulars relating to the Commission's Works and Districts to the 30th June, 1946, and Estimates of Revenue and Expenditure for the year 1946-47 are also included.

Reference is made to legislation passed by Parliament in 1945-46 affecting the Commission's operations, to enquiries made by the Parliamentary Public Works Committee into matters concerning water supply and to the North-West Mallee Facts Finding Committee. This Report also contains reference to the progress of investigations of the water resources of Victoria and to works in progress. Information is given in regard to investigations into the enlargement of the Eildon Reservoir on the Goulburn River and to other projects.

Reference is also made to the position with regard to the removal of drift sand from the domestic and stock water supply channels in the Wimmera-Mallee System.

LEGISLATION.

The following Acts affecting the administration of the Commission were passed by Parliament in the 1945-46 session :—

Water Act 1945 No. 5072.—This Act came into operation on the 28th August, 1945. The following are the more important of its provisions—

- (a) Reduction of the capital indebtedness at 30th June, 1943, of certain waterworks trusts and local governing bodies in accordance with the recommendations of the Town Urban Supply Committee.
- (b) The making of temporary advances to waterworks trusts and local governing bodies to meet the cost of preliminary investigations and preparation of plans and specifications in respect of proposed works approved by the Commission. Such advances are limited to four per cent. of the estimated cost of the works and are free of interest.
- (c) The relief of consumers of water in urban districts and divisions of the responsibility of providing or hiring meters, or of payment in respect of meters provided by water supply authorities.
- (d) For making and levying water rates the net annual value or the unimproved capital value, as the case may be, adopted by the local municipality for municipal rates may be adopted by authorities in respect of lands within urban districts or divisions and by waterworks trusts in respect of rural lands, except where the Trust makes a valuation of such lands.
- (e) The extension where necessary for a period or periods not exceeding five years of the period of five years for which valuations are made by the Commission or other authority in respect of rural lands for water rates.

Water (Levee Banks) Act 1946 No. 5117.—This Act which came into operation on 14th May, 1946, imposes a duty on the Commission to regulate the construction and use of private levee banks within any area which the Governor in Council may proclaim to be an area for the purposes of the Act; authorizes the Commission to grant a licence to any owner of land to construct and maintain a levee bank on his land or on adjoining Crown land or to enlarge or to repair an existing levee bank on such lands and prescribes penalties for offences against the Act.

ENQUIRIES AND REPORTS.

NORTH-WEST MALLEE FACTS FINDING COMMITTEE.

During the year the Government appointed a body known as the North-West Mallee Facts Finding Committee—

- (1) To recommend the form of occupation most suited for the North-West Mallee areas of Victoria and to indicate the appropriate size of holdings.

- (2) To recommend the tenure on which land should be made available.
- (3) If temporary leasing of land is considered necessary in any instances, to make recommendations as to the terms of such leases.
- (4) Any other relevant recommendations.

The Committee which consists of—

C. H. Johns, Chairman.
 R. F. McNab, Deputy Chairman and Member.
 R. E. Stafford, Member.
 A. J. Brown, Member.
 D. H. Larkin, Member.
 Alan J. Holt, Secretary.

is conducting a comprehensive investigation into conditions of settlements in North-western Mallee areas of Victoria, and it is expected that its report will be available in July, 1946.

RIVER IMPROVEMENT AND MAINTENANCE.

In September, 1945, the Parliamentary Public Works Committee submitted a report on legislation required for the more efficient maintenance of river improvement and drainage works, other than in irrigation districts. Recommendations by the Committee included the following—

- (1) That, under the Minister of Water Supply, a Council be established to advise on all matters relating to land utilization in any catchment, to consist of—
 - (a) Chairman, State Rivers and Water Supply Commission.
 - (b) Secretary, Department of Lands and Survey.
 - (c) Chairman, Forests Commission,
 - (d) Director, Department of Agriculture.
 - (e) Secretary, Mines Department.
 - (f) Chairman, Soil Conservation Board.
- (2) That provision be made for river improvement and/or drainage works, to be controlled by the State Rivers and Water Supply Commission.
- (3) (a) That the Rivers and Streams Fund be placed under the direct control of the Minister of Water Supply, or the State Rivers and Water Supply Commission, and be renamed the River Improvement Fund.
 (b) That provision be made for this Fund to be considerably augmented by some other regular source of revenue ; and
 (c) That this Fund be applied, as at present, in the form of grants to assist towards the cost of river improvement works generally throughout the State.

The Commission is continually receiving requests from all parts of the State for assistance to carry out river improvement work and feels that if this improvement work is to be dealt with in the comprehensive manner which its importance requires, the relevant recommendations of the Parliamentary Public Works Committee should be implemented by legislation.

CATCHMENT CONTROL.

In June, 1946, His Honour Judge Stretton was appointed as a Royal Commission to enquire into the effect of grazing in Forest Areas with particular reference to water catchment efficiency and soil erosion. This report is expected later this year.

RIVER MURRAY WATERS.

HUME RESERVOIR—INCREASE IN CAPACITY.

During the year the Commonwealth and States of New South Wales, Victoria and South Australia continued negotiations with regard to increasing the capacity of the Hume Reservoir from 1,250,000 acre feet to 2,000,000 acre feet, and in August, 1945, during the Premier's conference the Commonwealth and the three States concerned made the following decisions :—

- (1) It was agreed that the responsible Ministers in Victoria and New South Wales in consultation would confer in respect to measures designed to afford additional protection to the Murray River catchment areas.

- (2) It was also agreed that the Ministers of the States concerned and the Commonwealth Government would confer for the purpose of reviewing the proposals for the use of the waters of the River Murray, to examine reports of development and surveys in the Murray Valley and consider other appropriate matters.

The Commonwealth Government on the 15th February, 1946, advised the Victorian Government that it had further considered a proposal that it should contribute a quarter share toward the cost of the enlargement of the Hume Reservoir, and stated that it was prepared to contribute 25 per cent. of the cost of increasing the storage capacity of the Hume Dam and widening the channel into Lake Victoria at a total estimated cost of £1,150,000 on the understanding that before any contribution was made by the Commonwealth Government, arrangements be made for the policing and control of the catchment area by a responsible authority—preferably by the extension of the powers of the River Murray Commission.

On the 28th March, 1946, the Victorian Government advised the Commonwealth Government that it had agreed to the proposal for enlarging the Hume Dam on the basis suggested and also to contribute 25 per cent. of the cost of the work.

The matter is urgent, as the enlargement of the Reservoir is absolutely essential in order to safeguard the Irrigation Districts already established along the Murray against disastrous water shortages, such as will inevitably be experienced if the additional storage is not provided before the next severe drought.

CONTROL OF FINANCE.

The Commission's finances are controlled by the State budgetary system under which all monies collected from water rates and charges, diversion permits and licences and other sources are paid into the consolidated revenue of the State, whilst the provision of funds for the maintenance, operation and management of all works under the control of the Commission is dependent upon annual appropriations by Parliament which is not advised of the requirements of the Commission's work, but has presented to it estimates which have been amended by the Treasury and included with those for all Government departments in the Annual Budget.

The Water Acts require that water rates and charges raised shall be sufficient to meet the cost of maintenance, operation and management of the respective districts. Water-users, therefore, have a rightful claim that all such monies shall be applied for the purpose for which they have legally been raised—namely—the adequate maintenance of the works for the supply of water to their lands.

This question received a good deal of attention from the Royal Commission of 1936, which included in its recommendations that:—

“The State Rivers and Water Supply Commission should be given control of its revenue from irrigation and water supply districts, waterworks districts, and flood protection districts, to meet the necessary expenditure on the maintenance, water distribution and management thereof, and to provide for adequate depreciation of wasting assets.”

It is everywhere recognized that a Government should have complete control of departmental expenditure, but in Victoria, more than in any other country in the world, the State has gradually accepted responsibility for the management of public utilities of a business nature usually operated elsewhere by private enterprise.

All writers agree that the financial operations of these business undertakings do not properly form any part of government finance, and should not be embraced in the State Budget, which should be confined to normal social and national services, the extent of which must necessarily be determined by the funds available from general revenue.

This vital principle, however, has not been observed in connexion with the granting of powers to the State Rivers and Water Supply Commission, possibly because the difficulties were not foreseen, or possibly on the plea that the work of the Commission was largely developmental and could not be completely and directly reproductive while in the developmental stage.

The result has been that all of the Commission's revenues have been paid into consolidated revenue, and the Commission has been granted annually from consolidated revenue such amounts as the Treasury thought fit to include in estimates presented to Parliament for the maintenance and operation of the Commission's works.

Although theoretically, it might be said that shortages in times of stringency might be made up by additional votes when State revenues improved, in practice this has not been possible, and at no time during the forty years of its operations has the Commission been granted sufficient funds for both the supply of water and the maintenance of its works, many of which fell into disrepair and reached a deplorable condition. This condition was clearly seen by the Royal Commission, which, in paragraphs 261 to 284 of its Fourth and Final Report dealt with this question at some length.

The position would be bad enough if the Commission administered only one business undertaking—and the present method of presentation of the estimates to Parliament makes it appear that there is only a single undertaking—but when it is pointed out that the Commission is responsible for the operations of 163 separate districts, each of which by legislation must be administered as a separate financial entity, it will be realized that the arbitrary reduction of its aggregate estimates, regardless of the revenue position of the individual districts, not only makes budgetary control impossible, but also results in many instances in water users being deprived of services for which they have actually paid.

The argument that the State is meeting a large portion of the cost of water supply as a whole, and, therefore, should control the finances of the water supply undertakings, is not sound, as the extent of wear and tear on machinery, corrosion of pipelines, siltation of channels or deterioration of timber structures is in no way related to the condition of the State's finances, and cannot be regulated to accord with the funds that the Treasury might be in a position to make available from time to time for repairs and maintenance.

It is apparent that the Treasury cannot be expected to investigate the requirements of individual widely separated rural works, and that a continuation of the present system of control seriously jeopardizes country water supply by preventing the maintenance of these works.

Waterworks Trusts operating under the supervision of the Commission have, under the Water Act, complete control of their revenues, and the recommendation of the Royal Commission that similar control should be given to this Commission is strongly endorsed.

There are, however, a number of national services rendered by the Commission for which no direct revenue is received: such services include River Gaugings, supervision of Waterworks Trusts and Sewerage Authorities, advisory work in connexion with Rivers and Streams and Farm Water Supplies, the investigation of Water Resources and contribution towards the maintenance of River Murray Works.

The Water Acts also provide that, where the revenue from a district will not be sufficient to cover the expense of maintenance and management, the supply of water shall be continued to such district when so directed by the Governor in Council, in which case the annual loss incurred shall be borne by the State.

The maintenance of National Works and Free Headworks is also wholly borne by the State.

It is, therefore, evident that even if the Commission were given complete control of the revenue received from water rates and charges and other sources, it would be necessary for it to receive additional amounts each year to meet the cost of national services and of maintaining "non-paying" districts. Such additional amounts could be provided only by annual appropriations approved by Parliament, in connexion with the State Budget.

The Commission is very strongly of the opinion that the estimates presented to Parliament should be in a form which would indicate that the amounts provided for the maintenance of the various districts will be not less than the revenue to be raised in these districts. Where such revenue will be insufficient to meet the proposed expenditure, as in the case of Mallee waterworks districts, Parliament should be advised accordingly and asked to authorize the additional amounts required by way of subsidy.

By far the greater number of the districts controlled by the Commission provide sufficient revenue from rates and charges to meet the whole cost of maintenance and operation. This is not generally recognized, for the position is masked by the relatively

heavy losses on a few districts, and the Commission is of the opinion that the extent to which these few districts and works are subsidized by the State should be disclosed in the Estimates contained in the budget. This, however, cannot be ascertained under present arrangements.

Probably the most satisfactory method of solving the difficulty, and informing Parliament fully in regard to water supply operations, would be by creating a "Water Supply Works Operating Fund" into which would be paid as follows:—

- (a) *By the Commission.*—All revenue received by the Commission from water rates and charges, diversion licences, &c.
- (b) *By annual appropriation*—
 - (i) the cost of providing national services for which no charge is made.
 - (ii) the cost of maintaining and operating free headworks and national works.
 - (iii) the equivalent of the annual financial loss on "non-paying" districts.

An analysis of revenue and expenditure indicating actual surpluses and deficiencies for 1945–46 is given on page 107.

ADMINISTRATION.

ACCOMMODATION.

The State Rivers and Water Supply Commission is a country rather than a metropolitan organization, as its activities are decentralized to a greater extent probably than any other Department.

The Commission has 35 administrative centres of which only two are in the metropolitan area and 33 in country towns. As may be expected, by far the greater number of Commission employees work and live in the country—only 300 or fewer than 14 per cent. or one-seventh residing in the metropolitan area.

For many years, however, the Commission has been most seriously handicapped because of inadequate and unsuitable accommodation for its Design and Administrative Staffs. This difficulty has now been overcome. On the 22nd October, 1945, the Commission commenced the transfer of its Head Office administrative staff from Treasury Buildings to Centenary Hall, a five story building situated at 100–110 Exhibition-street, and the Fine Arts building adjoining Centenary Hall. Later in the year the Engineers, Draughtsmen and other officers of the Head Office sections of the Murray and Major Works Division, the Investigations and Designs Branch and Mechanical and Surveys Branch were accommodated in a six story building at 31 Flinders-lane, which is being adapted to meet the Commission's requirements.

STAFF.

There are at present 976 officers on the staff of the Commission, 520 of whom are permanent and 456 temporary, as against 570 officers in 1926, of whom 501 were permanent and 69 temporary and 400 in 1936 of whom 367 were permanent and 33 temporary. The number of professional and clerical officers who served during the recent war with the Army, Navy and Air Force was 206, and in addition 43 officers were loaned to the Commonwealth and other Departments, and to the Army of the United States of America for War work. To date all except 39 have returned to the service of the Commission.

During the year 35 officers resigned to take up positions elsewhere, of whom 17 were engineers and draughtsmen. Included in the resignations were two senior executive officers, Messrs W. W. D. Minson, B.E. Executive Engineer, and Mr. J. C. R. Sundercombe, B.E., Senior Electrical Engineer.

In order to meet the public demand supported by government policy for increased water conservation and distribution throughout Victoria, the Commission has been endeavouring to build up a staff of competent trained professional and clerical officers so that it might be in a position to carry out its very great responsibilities to the State in the most efficient manner possible. The continued loss, however, of trained personnel who have found more attractive opportunities elsewhere has very seriously retarded the development of the Commission's water conservation programme, and unless the remaining staff is retained and strengthened with additional qualified and experienced professional and clerical officers to meet the rapidly expanding needs of the Commission, it will not be possible to make reasonable progress with the State water conservation programme. Reference is made to this matter under the heading of Planning of New Projects.

As well as carrying out investigations of approved works, the Commission must, of course, continue the administration of its 77 irrigation, waterworks, flood protection and drainage districts which cover an area of nearly one-quarter of the State of Victoria and of its 86 urban districts and divisions. The only basis on which the State's water resources can return to the State their maximum potential value is by long range planning and development, and the continual interruption of investigations by resignations of highly trained officers has proved very costly to the State.

DEATHS AND RETIREMENTS.

The Commission records with deep regret the death during the year of the following officers :—

Pilot Officer G. Ritchie, who was first reported missing whilst on active service in 1942 ; and of Water Bailiffs C. Bennett, Merbein ; H. J. J. Downing, Stanhope ; and Ranger C. N. Fisher, Nyah Centre.

Former Officers.—Mr. O. C. Brown, formerly Chief Clerk ; Mr. E. Checchi, formerly Engineer-in-Charge of River Gauging ; and Mr. M. H. O'Grady, formerly Revenue Officer at Bendigo.

The Commission wishes to take this opportunity of expressing its appreciation of the loyal and valuable service rendered by the following officers who retired during the year on attaining the statutory retiring age :—

Messrs R. F. McNab, Divisional Engineer, Wimmera-Mallee Division ; C. W. Stone, Mechanical Engineer ; W. J. Jacobs, Mechanical Assistant ; F. J. Cooke, Supervisor of Water Distribution ; D. Gibson, Surveyor ; N. Lisle, Clerk ; Senior Inspector, R. H. Goold ; Inspector, W. E. Ault ; Senior Water Bailiff, D. D. Fahey ; Mr. J. H. Launder, Caretaker, Pine Lake ; Overseers, E. M. Brymer and E. H. Page ; Rangers, M. Houlihan, A. Murphy, J. Millar, and M. F. Healey ; Water Bailiffs, R. Cole, B. G. Woolley, J. M. Jolley, J. J. May, and J. L. Waters ; and Water Bailiff, G. A. Hawkins of Red Cliffs, who retired on account of ill-health.

Among the 49 officers who were promoted during the year were :—

Messrs. W. Lambert, B.Com., D.P.A., A.F.I.A., to Chief Finance Officer ; J. M. Mathew, B.M.E., to Superintendent Testing and Research (Class "A") ; F. M. Shaw, B.C.E., E.W.S., C. L. Sanders, L.S., E.W.S., M.S.E., V. G. Swanson, B.C.E., E.W.S., M.S.E., to Executive Engineers (Class "A") ; R. H. Richmond, B.C.E., E.W.S., to Divisional Engineer (Class "A"), Waterworks Trust and Sewerage Authorities Division ; T. A. Lang, M.C.E., E.W.S., to Assistant Chief Designing Engineer, (Class "B-A") ; N. M. Worner, B.C.E., E.W.S., to Engineer (Class "B"), Rocklands Reservoir ; R. C. Simmons, B.C.E., E.W.S., M.S.E., to District Engineer (Class "B"), Camperdown ; R. G. Mason, L.S., to Assistant Chief Surveyor (Class "B") ; and J. D. Lang, B.C.E., E.W.S., to Designing Engineer (Class "B").

For the purposes of comparison a statement showing the number of officers on the Commission's staff in the years 1926, 1936, and 1946, is set out.

	1926.			1936.			1946.		
	Permanent.	Temporary.	Total.	Permanent.	Temporary.	Total.	Permanent.	Temporary.	Total.
Professional Officers ..	148	10	158	120	3	123	169	106	275
Clerical Officers ..	113	8	121	72	9	81	124	81	205
General	240	51	291	175	21	196	227	269	496
Totals ..	501	69	570	367	33	400	520	456	976
Percentage employed on Temporary Basis ..	12 per cent.			8 per cent.			48 per cent.		

At the end of this report appears a list of officers of the Commission who served in the Armed Forces during the recent war.

HOUSING.

Thirty-three districts offices are situated in the various country districts of the Commission, while the staff residences owned by the Commission now number 265. A further 20 residences have been approved for construction and work on 12 is now proceeding.

The progress on the Commission's housing programme is handicapped by the lack of suitable materials and to expedite construction the Commission has purchased disused military camps in order to obtain building material.

The Commission during the year took the opportunity of purchasing 123 army hutments and utility buildings from the Commonwealth Disposals Commission for dismantling and consignment to major construction works and district centres, in order to provide accommodation for workmen's offices, stores, workshops, and shelters.

TRANSPORT.

The total mileage travelled by motor vehicles engaged in the service of the Commission for the year under review, was 1,378,990 miles. Of this, 1,056,000 miles were covered by 133 vehicles owned by the Commission, comprising 8 cars, 88 utility trucks and 37 other trucks of various types. In addition 7 cars operated by Commission's District officers with commuted allowances travelled 34,560 miles, and cars used by officers on Commission business on a "rate per mile" basis, numbering 100, travelled 288,430 miles.

Forty vehicles were purchased from the Commonwealth Disposals Commission during the year, but many of the Commission's vehicles are now in poor condition and long overdue for replacement when new vehicles can be obtained.

PLANNING OF NEW PROJECTS.

The position in regard to the investigation and planning of new projects is causing the Commission considerable concern.

During the war years and since the cessation of hostilities, the Commission has been asked to investigate and report upon a very large number of new proposals—mostly for water supply or irrigation—but at no time has the staff position, particularly in regard to engineers, surveyors and draughtsmen, been such as to allow any work at all to be done on more than a relatively small number of the most important and urgent projects.

With a resumption of construction during the year the position in regard to investigation and designs has become even more desperate because highly skilled designing engineers have been successful applicants for newly created positions on the construction of such works as the Rocklands and Cairn Curran Dams and the Central Gippsland irrigation project. Such losses of staff from one branch to another are unavoidable under the Public Service system, even although they cause most serious disruption to, and frequently total suspension of, investigations on important projects.

The work of the Investigations and Designs Branch comprises, firstly, preliminary investigations in order to determine the practicability and probable cost of projects and enable reports to be prepared for presentation to the Government and to the Parliamentary Public Works Committee with a view to obtaining approval for the construction of the works; and, secondly, the preparation of detailed final plans to enable actual construction to proceed. This latter work, i.e., the preparation of detailed plans, usually requires the services of many more engineers and draughtsmen and takes a great deal more time in man-hours than the preliminary investigations which determine the feasibility of the project. Preliminary inquiries in connexion with a major project may require only half a dozen plans, but for actual construction the detailed plans may run into scores or possibly hundreds of separate drawings with appropriate computations.

The Investigations and Designs Branch has lost 35 officers since the 1st July, 1945, by resignation or promotion to other work, and the position has been reached that reasonable progress can be made during the coming year on plans for not more than six major projects, namely:—

- (1) *Rocklands Dam and Outlet Channel*.—Now under construction.
- (2) *Murray Valley Irrigation Works*.—Under construction.
- (3) *Cairn Curran Dam*.—Materials are being assembled and construction will be begun as soon as sufficient engineers and clerical officers to supervise the work have been appointed.

- (4) *Central Gippsland Irrigation Project*.—On which construction is to start as soon as staff can be obtained to supervise the work.
- (5) *Soldier Settlement Areas—Dried Fruit and Citrus*.—Where every effort is being made to have a number of holdings ready for planting in spring of 1947.
- (6) *Eppalock Dam*.—For which preliminary plans suitable for presentation to the Parliamentary Public Works Committee are approaching completion.

A considerable amount of work in the way of preliminary planning has been done on a number of projects of which the following are the most important. It will not be possible to go further with detailed planning for construction with present staff :—

- (1) *Eildon Enlargement*.—A very large amount of detailed investigation has been completed and the reports are ready for consideration by the eminent consulting engineer Dr. J. L. Savage, who will visit Australia and inspect the site in September, 1946.
- (2) *Goulburn—Waranga Channel Duplication*.—Preliminary investigations have been completed and reports have been submitted to the Parliamentary Public Works Committee.
- (3) *Torrumbarry System Main Channel Reconstruction*.—Preliminary investigation has been completed and a report presented to the Government.
- (4) *Cobbledick's Ford Dam, Werribee River*.—Preliminary designs have been completed and report submitted to Parliamentary Public Works Committee.
- (5) *Tullaroop Dams, on Tullaroop Creek*.—Preliminary report will be ready for submission to Parliamentary Public Works Committee in September, 1946.
- (6) *Huntly—Elmore Domestic and Stock Water Supply Project*.—Preliminary report is approaching completion and should be ready for consideration of landholders concerned in November, 1946.
- (7) *Piangil Irrigation Project*.—Preliminary report is well advanced, but cannot be completed until certain soil and topographic surveys have been carried out.

Other projects upon which some work has been done, but on which progress is being retarded owing to lack of staff include :—

- (1) *Broken River—Conservation*.—First Progress Report completed, but work suspended owing to loss of officers engaged on this work.
- (2) *Nyah Sub-Surface Drainage*.—Construction work proceeding, but is being delayed owing to lack of plans.
- (3) *Tallygaroopna Town Water Supply*.—Construction work, which has been long delayed awaiting plans, will shortly be undertaken.
- (4) *Boort—Reconstruction of Channels*.—Investigation disrupted owing to loss of officer concerned, but is being resumed.

Important projects listed for investigation, but upon which no progress has been made, include :—

- (1) *Moorarbool River*.—Water conservation and irrigation.
- (2) *Mitchell River*.—Water conservation and irrigation.
- (3) *Avon River*.—Erosion control works.
- (4) *Wimmera River*.—Storage reservoirs.
- (5) *Deakin Irrigation District*.—Reconstruction of channels.
- (6) *Hattah Lakes*.—Water conservation.—Arrangements made for aerial survey but no progress with engineering investigations.

IRRIGATION DEVELOPMENT.

1945-46 SEASON.

The 1945-46 irrigation season commenced with depleted reservoirs, and the low winter rains did not hold out prospects of average spring flows in the rivers. Steps were therefore taken, following the Advisory Board conference referred to later, to allot quotas of water to the various irrigation districts, and to bring about the most effective use of available supplies.

However, good rains in October and November lessened irrigation demands and kept up stream flows. Further rains in January and the following months brought about a continuance of good river flows with the unusual result that more water was in storage at the end of the irrigation season than at the beginning.

As a result of the autumn rains the demand for water for the irrigation of native and annual pastures dropped off, and consequently the total water distributed and the area irrigated (as shown in Appendices "A" and "E") were lower than the two previous drought years.

PRODUCTION.

Production from the irrigation areas during the year 1945-46, was not as high as during the record year of 1943-44, the figures for which were quoted in the last Annual Report. Due to frosts in the spring and poor harvesting conditions both the yield and the quality of dried vine fruits were below the average of the previous five years.

In the deciduous fruit areas of the Goulburn Valley the Rutherglen bug infestation reduced the crop of apricots and peaches by about one-third and also reduced the quality of the fruit that could be canned. Pears were not affected and large crops were harvested both of canning pears and of winter dessert pears. The latter have within the last few years increased in importance as an irrigation product and extensions have been made in the cool stores at Shepparton and Mooroopna to store the additional production.

Following on the cessation of hostilities the demand for tomatoes for processing declined and a smaller area was planted than in the previous year. The shortage of water in the Werribee System also prevented the usual area of vegetables from being planted. As noted elsewhere in this report, nearly one hundred bores were sunk in the Werribee district to supplement the water supply. In the Mornington Peninsula considerable areas of vegetables were watered from the urban supply system.

Dairymen in the irrigation areas generally had better returns than in the previous year. In the northern irrigation districts, butter and cheese production increased by 10 per cent. compared with the previous year, and in addition fresh milk was forwarded from Rochester to Bendigo and areas further south. In the Central Gippsland Irrigation District, butter production increased by nearly 30 per cent.

COMPETITIONS.

The Hanslow Cup Competition for the "Best Effort to Control Soil Drift on a Mallee Farm" was again conducted during the year. The continued generosity of a number of authorities and firms again enabled cash prizes to be given for sectional competitions.

In conjunction with local Agricultural Societies competitions for "The Farm with the most Efficient Use and Control of Water" and best "Areas of Lucerne, of Irrigated Pasture and of Summer Fodder Crops" were conducted in the Tragowel Plains, Maffra-Sale, and Murray Valley Districts. Reports of these competitions have been published in the *Journal of the Department of Agriculture*.

SOIL SURVEYS AND INVESTIGATIONS.

The field work of the Soil Survey of the lands in the proposed Nambrok-Denison irrigation area was completed by officers of the Department of Agriculture during the year, and after consideration of an interim report a recommendation was made that an area of 22,000 acres would be suitable for "Soldier Settlement". Arrangements are also being made with the Department of Agriculture for the survey of certain other lands in Central Gippsland which can be supplied from the Macalister River.

A soil survey of certain areas contiguous to the Red Cliffs Irrigation District is also being carried out with a view to extensions of the dried fruits industry.

The land between Nurmukah and Nathalia within the area proposed for soldier settlement was also surveyed during the year by the Council of Scientific and Industrial Research and the report is now available.

RESEARCH.

The Commission has continued to co-operate with various bodies carrying out research work in irrigation districts. During the year local research and investigation committees have been established at Corop and Cohuna. Water was again made available without charge for experimental and development plots at twenty schools in the irrigation districts.

DISTRICT ADVISORY BOARDS.

In order to give members of the northern irrigation districts Advisory Boards an opportunity of discussing problems of mutual interest to water users, including proposals of the Commission in respect to future water supply, a conference of members of the eighteen Advisory Boards in the Goulburn and Loddon Divisions in northern Victoria, was held at Bendigo on 1st and 2nd August, 1945. A full report of the conference, which was most successful, and the resolutions passed, was published and circulated to all concerned.

The Boards again functioned successfully in all irrigation districts, and in the drainage districts of Cardinia and Carrum, and were of great assistance to the Commission in dealing with local water supply and drainage problems. The co-operation of Advisory Boards is much appreciated by the Commission.

LAND CLASSIFICATION IN IRRIGATION DISTRICTS.

During the year applications under Section 10, *Water Act* 1939, No. 4513, for variation in the water rights in the Murray Valley District were dealt with by the District Appeal Board.

SETTLEMENT OF EX-SERVICEMEN IN IRRIGATION DISTRICTS.

With the appointment of the Soldier Settlement Commission to control settlement of ex-servicemen in Victoria, representatives of that Commission took the place of the representatives of the Lands Department on the Joint Departmental Committee appointed to report on proposals for soldier settlement in irrigation districts. During the year the Committee reported on several proposals.

This Commission is also co-operating with the Soldier Settlement Commission in the subdivision of land and planning of settlement in irrigation districts. The area of 60,000 acres in the Murray Valley Irrigation District mentioned in the last report has been approved by the Commonwealth Director of War Service Land Settlement as suitable for soldier settlement, and a further area of 22,000 acres in Central Gippsland, which will be an extension of the Maffra-Sale Irrigation District, has also been approved.

Investigations are also being made into the suitability of certain areas along the Murray River for the extension of the dried vine fruit and citrus industries.

DISTRICT EXTENSIONS AND EXCISIONS.

The Murray Valley Irrigation District was extended to include an additional area of 173,500 acres, which will be commanded by an extension of the channel system of that District. Of this area, 161,000 acres were formerly within the District of the Numurkah Waterworks Trust.

An area of 160 acres, supplied by an extension of the Commission's works, was added to the Maffra-Sale Irrigation District.

Western Wimmera and Normanville Waterworks Districts were extended to include areas of 20 acres and 1,460 acres respectively supplied from the Commission's works.

Areas of 90 and 45 acres not supplied by the Commission's works were excised from Wimmera United and Long Lake Waterworks Districts respectively.

The Otway Waterworks District was extended to include an area of 870 acres served by an extension of the Commission's works in Port Campbell-road, Cobden.

An area of 35,300 acres was excised from the Normanville Waterworks District and included in the West Loddon Waterworks District, constituted under the provisions of the *Water (Loddon) Act* 1944.

Cobden, Nyah West, Rupanyup, and Terang Urban Districts were extended to include lands served by extensions of the respective reticulation systems.

Adjustments were made to the boundaries of the Jung Jung, Marnoo, and Rupanyup Urban Districts to exclude small areas of rural lands not supplied from the works of the respective urban systems.

Wonthaggi, North Wonthaggi, and Hicksborough Urban Districts were united, and are known now as the Wonthaggi Urban District. Carrum and Frankston Urban Districts were united to form one district known as Chelsea-Frankston Urban District.

The Red Cliffs Drainage District was extended to include an area of 15 acres benefited by the Commission's drainage works.

NEW DISTRICTS.

Pursuant to the provisions of the *Water (Loddon) Act 1944*, the Loddon United Waterworks Trust was abolished as from 1st July, 1945, and the Waterworks District of the Trust was divided into three districts known as Loddon, East Loddon, and West Loddon Waterworks Districts. This Act also constituted the Mitiamo Urban District of the Trust a Waterworks District and Urban District under the control of the Commission.

The Wychitella Waterworks District, comprising an area of 177,200 acres, was constituted. This area will be supplied from the Wimmera-Mallee gravitation channel system.

The townships of Birregurra, Pimpinio and Tallygaroopna have been proclaimed Urban Districts.

PROPOSED DISTRICTS.

It is proposed to constitute as a Drainage District that portion of the Dingee Irrigation District to be benefited by the Commission's drainage works now under construction.

The towns of Nar-Nar-Goon and Tynong within the Mornington Peninsula Waterworks District are to be proclaimed an Urban District to be known as the Nar-Nar-Goon and Tynong Urban District.

PART III.—WATER SUPPLY.

WATER DISTRIBUTION.

In Victoria, the total area, of lands supplied with water for domestic and stock purposes or for irrigation, excluding the metropolitan areas, amounted to 15,398,700 acres.

During the earlier part of the year under review, dry conditions continued and the volume of water in the Commission's main storages at the commencement of the irrigation season was far below normal requirements, particularly in the Goulburn System, where at the beginning of the season during the peak demand, the quantities of water delivered to each district in that System were limited to sufficient water to meet one-fifth of the water rights of the districts within 30 days. When the demand for water lessened later in the season it became possible to meet all demands of irrigators for water rights and sales quotas as required. It was not necessary to impose restrictions on irrigation supplies in the districts of the Torrumbarry System.

On 1st July, 1945, the volume in the storages which supply the Goulburn System was only 146,305 acre feet, but when water was turned into the districts for the commencement of irrigation on or about 16th September, 1945, the volume in the storages had risen to 627,790 acre feet.

The water delivered to lands in the districts of the Torrumbarry System amounted to 163,785 acre feet. This included delivery of 88 per cent. of the allotted water rights in addition to domestic and stock supplies and "sales" equal to about 21 per cent. of the allotted water rights.

Throughout all irrigation districts the total delivery of water to lands was 557,625 acre feet, including 50,012 acre feet supplied by pumping.

The irrigation districts of Red Cliffs, Merbein and Nyah received 48,094 acre feet of water pumped direct from the River Murray, while the high level waterworks districts of Millewa, Coreena, Carwarp and Yelta, also received 17,067 acre feet for domestic and stock purposes from the same source. The Wimmera-Mallee waterworks districts were supplied with 49,900 acre feet of water from the Loddon and Goulburn Systems in addition to water which was supplied from the Wimmera-Mallee storages.

The volume of water released from the Waranga Reservoir amounted to 533,233 acre feet. Of this quantity 215,271 acre feet were delivered to irrigators and 25,430 acre feet passed on to the Wimmera-Mallee Waterworks districts at Loddon Weir, indicating that about 45·14 per cent. of the water released was delivered. Water was also released from the Goulburn Weir and from the Goulburn Waranga Channel for the eastern portions of the Goulburn System, and amounted to 189,611 acre feet; of this quantity 75,681 acre feet or 39·38 per cent. was delivered to irrigators. Thus, of the total volume of water (722,844 acre feet drawn from the headworks of the Goulburn System), the Commission delivered 315,382 acre feet, equal to 43·6 per cent.

Returns of water delivered to individual irrigation districts for irrigation and other purposes in the year 1945-46, and all water released from headworks for the supply of Wimmera-Mallee and other waterworks districts for the year under review, are included as appendices to this report.

At the 1st July, 1945, the Commission's main water storages with a total capacity of 1,883,840 acre feet, contained 440,505 acre feet. At the termination of the irrigation season, or on about 15th May, 1946, the total volume stored was 1,254,170 acre feet and at the 30th June, 1946, it had increased to 1,420,110 acre feet.

GOULBURN DIVISION.

The Goulburn Division comprises the irrigation districts, of Shepparton, North Shepparton, South Shepparton, Katandra, Rodney, Tongala-Stanhope, Deakin, Rochester, Campaspe and Murray Valley, and includes also the drainage districts of Shepparton, Rodney, Tongala-Stanhope and Rochester, and the flood protection districts of Loch Garry and Kanyapella.

GOULBURN DISTRICTS.

Irrigation for the 1945-46 season commenced about the middle of September, and continued until 15th May, 1946. At the commencement of the irrigation season the storages serving the Goulburn Division held 627,790 acre feet of water out of a total storage capacity of 660,100 acre feet.

Many irrigators have shown a tendency to develop their properties far beyond the water rights that have been allotted to their lands, and in order to safeguard both the irrigators and the Commission against development beyond the capacity of the water supply system, the Commission after consultation with the Advisory Boards concerned, and after consideration of alternative proposals, agreed at its meeting held on the 7th January, 1946, that the basis of "sales quota" for the Goulburn System would be:—

- (i) The average "sales" during the three base years, 1941-42, 1942-43, and 1943-44. In cases where, owing to absence of occupier or working member of his family on military service, little or no water was taken in any or all of the three years named above, "sales quota" may be average usage for three years preceding the period of absence on military service, excluding 1938-39 when, owing to drought conditions, water in excess of water rights was not available; or
- (ii) Thirty per cent. of water rights with a maximum allocation, including water rights, of not more than 100 acre feet; or
- (iii) In the case of holdings where the water right on the 31st October, 1945, was 30 acre feet or less, the "sales quota" may be increased above that provided under (i) or (ii), to give a total allocation of water, including water right, equal to one acre foot per acre of commanded and suitable land with a maximum of 40 acre feet. This will not apply to subdivisions made after 31st October, 1945.

In no case will "sales" be provided for watering of lands, which have not been properly prepared for irrigation; the latter limitation, however, will not prevent the watering of cereal crops which can be irrigated satisfactorily.

Works.

With the ending of the war additional labour became available and the Commission has made every endeavour to overcome some of the delayed maintenance work in the various districts in the Goulburn Division.

Mechanical excavators were used in the Rochester and Rodney districts for desilting channels and 14½ miles were dealt with in this way. This work has materially improved the water supply along the sections treated and in addition the clearing of "cumbungi" rushes during the season has reduced the growth of this weed to a minimum. In the Deakin District landholders assisted the Commission in the desilting of channels by the provision of teams.

MURRAY VALLEY DISTRICT.

The Murray Valley District has been extended to include the whole of the land in that district for which water will be available and which the Commission proposes to reticulate with channels for irrigation purposes. The area of the district is 269,312 acres, of which 103,200 acres were supplied on a one-in-four basis with water for irrigation during the year. Channel construction has been continued and a further 9,300 acres will be supplied with water during the forthcoming year.

Irrigation development in the Murray Valley is on a high standard and landholders are taking particular care to have their lands properly prepared to receive water. During the year 1,690 acres were surveyed by the Commission on behalf of landholders and designs for the layout of the areas have been prepared for them. This has proved of great assistance both to the landholders and the Commission.

In new sections of channels in certain soils trouble has been experienced with leakages which have occurred mainly through the undisturbed soil. These sections are being treated with asbestos cement sheets to form a cutoff in the banks at the worst sections.

Drainage.

Labour being more plentiful during the year, the maintenance of drainage works has received special attention, and in the Shepparton district the Main Marionvale Drain has been extended to connect with the Wunghnu Outfall at Katandra.

This has greatly improved the drainage outfall in Katandra and has enabled the deepening of the Katandra drains to provide better drainage facilities. An excavator has been employed almost continuously on the Shepparton outfall drains and the drainage system in that district is now in a very satisfactory condition. The Rodney and Tongala-Stanhope districts drains have also received attention during the year. Considerable improvement in drainage channels has been effected.

Goulburn Main Channels.

The repairs on the Goulburn-Waranga Main at 5 miles 20 chains effected during the previous winter have proved satisfactory and no further trouble has been experienced. Minor leakages at 3 miles 5 chains have been controlled and repairs undertaken as soon as the water in the channel was cut off. On the Waranga Western Main Channel repairs were made to the concrete spillway at Wanalta Creek, and other maintenance work carried out where necessary. On the East Goulburn Main Channel the western tube of the syphon at the Honeysuckle Creek was relined with eight inches of reinforced concrete. Maintenance work was carried out on the Waranga-Deakin Channel particularly in respect to scours which develop on the inside of the banks in the first 5 miles of the channel because of the constant high level of the water.

Subdivisions.

During the year a large number of private subdivisions within irrigation districts, particularly Shepparton, Rochester, Tongala-Stanhope and Murray Valley were submitted to the Commission. These subdivisions involved the Commission in many minor works to meet the requirements of the subdivided areas, the cost of all such work being met by the subdividers. The Commission is perturbed at the number of private subdivisions effected during the year which resulted in small holdings with water rights far too small for what might be called "living areas".

FLOOD PROTECTION DISTRICTS.

Maintenance is being carried out where necessary in the various flood protection districts.

LODDON DIVISION.

The year 1945-46 was noticeable for considerable variations in seasonal conditions throughout the Loddon Division, which runs from the south of the Waranga Western Main Channel to beyond Swan Hill.

Although fair rains during August indicated a later than usual commencement of the watering season, fairly dry conditions toward the end of that month set in and the demand for early supplies of water was keen. These dry conditions prevailed into mid-summer and the supply system was taxed to meet requirements. Good rains during February eased the demand in the autumn and together with a lack of stock due to the previous dry season helped to keep the demand below normal during the latter part of the irrigation season. Windy and threatening dry conditions toward the end of the season extended the watering requirements and the season did not terminate until 15th May.

The previous abnormally dry season with almost continuous dust storms was reflected in the condition of the supply channels in northern districts by the loss of capacity due to sand-drift. In the early part of the season it was necessary to concentrate all available excavating machines in those areas to enable water supply requirements to be met.

Favourable weather conditions later in the season brought about heavy growth of water weeds in the main and lateral channels necessitating continuous patrolling and dragging of the channels to maintain supplies. The easing of war conditions, however, made it possible to increase the amount of mechanical plant available for channel maintenance, and this has resulted in a greatly improved supply to areas where formerly the position of supply was difficult. The position with regard to urgent maintenance work on channel structures was, however, made difficult because of shortage of materials and this difficulty was accentuated because the majority of channel structures in the Loddon Division which were constructed by the old Trusts have passed their useful life.

IRRIGATION.

Pyramid Hill Centre.

In the districts administered from the Pyramid Hill Centre the total area of crops irrigated for the year was 61,036 acres compared with 49,237 acres during the previous year. Nine thousand acres of this increase was due to crop watering. The increased area

watered and the reduced water deliveries was the result of the improved rainfall of 1,572 points as against 697 points of the previous year. Competitions for pastures and summer fodder crops under the direction of the Pyramid Hill Agricultural Society attracted large entries.

Cohuna District.

In the Cohuna District the growth of "distichum" in drainage channels threatens to become a serious problem and has necessitated constant maintenance.

During the year the Box Creek Weir was repaired and a considerable amount of beaching placed around the inner bank of Kow Swamp as protection against wave action during windy weather.

To guard against the possibility of the flooding of properties adjacent to Heppell's Lagoon on Taylors Creek, a channel has been constructed to divert surplus flood waters into Splatts Lagoon below Berry's Regulator.

Kerang, Koondrook and Mystic Park Districts.

Considerable difficulty has been experienced in the removal of drift sand and weed growth from water supply channels because of unavoidable lack of sufficient maintenance during the war years.

Kerang East Drainage.

The Kerang East Drainage District is functioning well and lands therein are showing considerable improvement. Works to provide Murrabit Drainage system with a gravity outfall are making good progress.

Swan Hill District.

All irrigation requirements in the Swan Hill District were met and conditions were greatly improved by a rainfall of 1,711 points during the season.

During the year a Committee comprising representatives of the Council for Scientific and Industrial Research, Department of Agriculture, the State Rivers and Water Supply Commission and local settlers was set up for the investigation of water table movement and salting troubles on the Tyntynder Flats. Considerable progress has been made by the Committee in the installation of test wells throughout the area and a report is expected following the next watering season.

Loddon, East Loddon, and West Loddon Districts.

The Loddon United Waterworks Trust has been abolished and the new Waterworks districts of Loddon and East Loddon, administered from Pyramid Hill, and West Loddon, administered from Boort, were constituted on the 1st July, 1945. The lands in these districts include the old Loddon United Waterworks Trust area, together with an area excised from the Normanville District.

Structural works on the Barrapoort Branch Channel have been completed, and an additional area of 1,410 acres in the vicinity of Barrapoort has been added to the Normanville District.

In the West Loddon Waterworks District, an outlet constructed from the Waranga-Mallee Channel at about 28 miles from the Loddon River greatly facilitated tank filling from the Catumnal Channel beyond this point.

In both the Normanville and West Loddon Districts, much difficulty was experienced in securing sufficient teams for the removal of drift sand and only the most urgent work could be completed.

GIPPSLAND AND SOUTHERN DIVISION.

BACCHUS MARSH.

Drought conditions experienced in 1944-45 persisted during half the year under review, and the season opened with Pykes Creek Reservoir containing only 2,936 acre feet against a total storage capacity of 19,456 acre feet. This made it necessary to restrict irrigation, and for the second year in succession a delivery of 5 inches of water for land with water rights was the utmost which the storage could provide, and irrigation was suspended on 22nd December.

Good rains were received from January onward, 13.6 inches being recorded for the six months to the 30th June, which averted serious crop losses.

Attempts were made to supplement irrigation supplies by sub-surface water, but the four 10-inch bores installed failed to give satisfactory discharges. Limited supplies from three small private bores were of some assistance on market garden plots.

Urban supplies were maintained with some restrictions to the hours of garden watering.

At Bacchus Marsh, despite delay in delivery of materials, 162 large and 244 small-type Dethridge Meter Wheels were made by the Commission.

WERRIBEE.

As the volume of water in Melton was only 6,280 acre feet, it became necessary to restrict irrigation supplies during the season, and $3\frac{1}{2}$ acre inches for each acre foot of water right was supplied before the end of December. Rains in January permitted the distribution of an additional small quota, and later good rains obviated the need of water supplies for irrigation for the remainder of the season.

During the water shortage, landholders sank many bores of 4 inches to 8 inches diameter with varying success. About 90 of these bores gave an average yield of 5,000 gallons per hour, the water from two-thirds of them being highly mineralized. The bores were, however, of considerable assistance on small market garden areas. One good bore with a discharge of 30,000 gallons per hour permitted the watering of 60 acres of pastures and 30 acres of market garden.

MAFFRA-SALE.

Heavy demands for irrigation supplies were met during October, but rain during November caused a suspension of delivery. In December and January, peak-rate deliveries were required again until rain fell at the end of January, and a definite break in the weather in the last weeks of February brought irrigation to a close for the season. Water deliveries to farms amounted to 19,993 acre feet or 88 per cent. of allotted water rights.

New supply works were limited to two short channels brought about by subdivisions, and to the excavation of half a mile of drain discharging into the Serpentine System to improve conditions in Mewburn Park.

Several miles of earthworks for an extension of the channel system to The Heart, east of Sale, were undertaken and structures will be installed when materials are available.

General maintenance was carried out whenever practicable in the district.

PROPOSED EXTENSIONS.

MAFFRA-SALE.

Good progress has been made with the investigations for the supply of water for irrigation purposes to the Nambrok-Denison area, and additional lands between the Thomson and Avon Rivers, the whole of which, with the existing Maffra-Sale district, will form the Central Gippsland Irrigation Project.

Contour surveys and field work for soil surveys of Nambrok-Denison have been completed, and plans of soil survey are in course of preparation. Similar work is being undertaken between the Avon and the Thomson Rivers. From information available from soil surveys, it has been possible to indicate the area in Nambrok-Denison which will probably be suitable for the establishment of soldier settlers in this locality.

Topographical surveys for the large main channels to serve all these lands have been made, and included examination of a proposed supply to the south-eastern portion of the district, and its extensions by means of a carrier channel from the Main Southern channel, involving the crossing of the Macalister River between Riverslea and Bundalaguah.

WIMMERA-MALLEE DIVISION.

The Wimmera-Mallee Domestic and Stock System supplies water to almost the whole of the region known as the Wimmera, and to large portions of the Mallee districts, serving in all an area of some 11,000 square miles in which is carried on wheat farming and pastoral pursuits. The development of those areas would not be possible to anything like the present extent without an artificial water supply, as the ground in the Wimmera is very absorbent and does not shed water easily, whilst in the Mallee rainfall is insufficient to provide an adequate runoff.

The headworks of the Wimmera-Mallee System are located in the vicinity of the Grampians mountains, and supplementary flows are diverted to the channel system from the Goulburn Channels and the Loddon River. Forty-five towns with a population of 40,000 people obtain their water supplies from the Wimmera-Mallee channels, whilst the total

population throughout the area is 80,000. Farmers in the Wimmera-Mallee Districts are supplied with water for domestic and stock purposes once a year during the winter or spring months—it being their responsibility to provide storages sufficient in size to meet their domestic and stock requirements for a year.

This system of water supply was inaugurated in 1882 by Local Waterworks Trusts, which were taken over by the Commission in 1909. Since then, considerable development has taken place; there are now 6,600 miles of main and distributary channels, whilst the total storage capacity supplying the Wimmera-Mallee channels is 206,480 acre feet.

The total capital cost of the system to date has been approximately £3,000,000.

Between 1934 and the year under review rainfall in these areas has been below average in seven of the twelve years. In 1938, 1940, 1943, and 1944 rainfall was very much below average, whilst 1938 and 1944 could be classed as years of extreme droughts. Dry conditions persisted until August, 1945, when useful rains, although insufficient for catchment purposes, relieved the agricultural position.

The period from 1941 to 1945 could be classed as the worst that the Wimmera-Mallee districts have ever experienced, as not only did agriculture to a great extent fail in many parts of those areas, but the sand-drift problem became tremendous, silting up of the Commission's water supply channels by drifting sand being on a scale never previously experienced. The task of the removal of sand from the channels was a colossal one, involving the shifting of over 12,000,000 cubic yards of sand at a cost of £323,000 in one year.

During the year 1945-46 the Commission had to pump water from Pine Lake, which had fallen below the gravitation level, and also from the River Murray at Nyah, in order to supplement supplies for domestic and stock purposes from the storages. The usual watering period in the Wimmera-Mallee Water Supply System is from the 1st May, to the 31st October, but owing to the lack of horse teams and the tremendous quantities of sand which had to be removed from the channels, the completion of the 1945 watering was delayed until February, 1946, when drought-breaking rains which fell over the whole area and water supply catchments, considerably replenished storages. Subsequent rains ensured adequate supplies of water for the 1946 watering season.

Although watering during the 1945 season was carried out under extremely adverse conditions and at a tremendous cost, nearly all the farms in the Wimmera-Mallee areas dependent upon the Commission's channels received sufficient water for domestic and stock purposes to enable them to carry on and retain their stock, thus averting the tremendous losses of stock worth millions of pounds which occurred in the 1902 and 1914 droughts.

SWANWATER WEST.

Work on the extension of the Wimmera United District to the Swanwater West area, comprising about 60 square miles of good wheat land, proceeded in accordance with the men and teams available. Of a total length of 36 miles of channel required, 10 miles have been excavated and all structures up to the 25 mile peg have been completed.

It is anticipated that Lake Volcano storage, which will in future provide a supplementary water supply to the Borough of St. Arnaud Waterworks Trust, will be filled from the Charlton-Swanwater West Channels about October, 1946.

WYCHITELLA DISTRICT.

The Wychitella Waterworks District, which was constituted in 1945, contains an area of 220 square miles of good agricultural land east of Charlton. The district will obtain its domestic and stock water supply from the Wimmera-Mallee System by means of an offtake from the Charlton Channel, crossing the Avoca river and extending in an easterly direction almost to Korong Vale.

Survey work on the location of distributary channels is in progress and a considerable length of channelling should be in operation next watering season.

The Wychitella channel system will also provide supplementary water supplies to the township of Korong Vale, which up to date has relied upon the Victorian Railways Department, and will also supply the township of Wedderburn. The main channel which is 68 miles long will, it is anticipated, be completed in readiness for the 1946-47 watering season. The construction of the urban storage for Korong Vale located about one mile north of the town was undertaken by the Commission with its mechanical plant, and within a few months this storage which will have a capacity of 63,000,000 gallons will be ready to receive water during the annual Wimmera-Mallee domestic and stock run in 1947.

WALPEUP WEST DISTRICT.

The Walpeup West district which lies between Underbool and the South Australian border is fortunate in having a good supply of underground water available at depths of from 100 to 900 feet.

The majority of landowners in this district have their own bores, but for general use 100 public bores have been sunk and are maintained by the Commission.

Owing, however, to shortage of materials, maintenance of windmills and tanks has been difficult, but will be improved as soon as materials become available.

DOMESTIC AND STOCK SYSTEMS SUPPLIED FROM THE RIVER MURRAY.

The Carwarp, Carwarp Central, Yelta, Coreena and Millewa domestic and stock systems are supplied by means of pumping from the River Murray. Channels in all these districts, however, have been very badly affected by drifting sand brought about by the prolonged drought, and the annual run was completed only under considerable difficulties and at very great cost.

Coreena District is supplied by pumping from a point some miles downstream from the lock on the River Murray at Robinvale. Yelta District is supplied by an extension from channels of the Merbein Irrigation District, and Carwarp and Carwarp Central Districts by extensions from the Red Cliffs Irrigation District. The Millewa District has a separate system supplied by four pumping stations, the first of which is at Lake Cullulerraine and which distribute water at various lifts to 778 miles of channel.

NYAH IRRIGATION DISTRICT.

Because of heavy rains only five irrigations were provided for the Nyah Irrigation District, necessitating the pumping of 8,350 acre feet of water compared with 10,531 acre feet in 1944-45, 9,718 acre feet in 1943-44, and 9,047 acre feet for the previous year. Heavy rains in January and February, of 1946, followed by showery weather during the drying period, considerably reduced the fruit crops. As a result the total yield for the district amounted to 2,392 tons compared with 3,352 tons in 1944.

RED CLIFFS AND MERBEIN DISTRICTS.

Owing to dry conditions, irrigation in both districts commenced in August, 1945, and in addition a "frost" irrigation to reduce liability of vines to frost damage was given at Red Cliffs from the 21st to 26th September.

Water was made available for six irrigations in both districts, but because of early autumn rains, limited areas only were watered at the latter end of the season. These late autumn rains seriously affected both the quality and quantity of the dried fruit crops by causing mould in the fruit and delaying harvesting. The quantity harvested at Red Cliffs and Merbein was 48,897 tons, which was little more than that of the previous relatively low year and only two-thirds of the record year 1939-40.

Owing to the curtailment of irrigation in the autumn the quantities of water pumped were a little less than those of the previous year, namely, 38,306 acre feet at Red Cliffs and 30,321 acre feet at Merbein. The depth of water pumped per acre irrigated for the season was only slightly affected by the autumn rains, the difference for the whole season between this year and last year being 0.4 inches at Red Cliffs and 0.6 inches at Merbein. The quantities of water taken are, however, regarded as excessive and much greater than required for maximum production. The Commission is endeavouring to develop a suitable meter to measure deliveries to vineyards with a view to installing such meters on all holdings and charging for excess water on a quantitative basis.

Particulars of the six irrigations given during 1945-46 are :—

Irrigation. Number.	Period.	Acre Feet Pumped.	Average Depth per Watering.
			Inches.
<i>Red Cliffs Irrigation District.</i>			
1	20th August, 1945—19th September, 1945	7,840.8	8.5
2	22nd October, 1945—1st December, 1945	8,151.8	8.76
3	3rd December, 1945—5th January, 1946	8,003.9	8.5
4	6th January, 1946—13th February, 1946	7,982.4	8.2
5	27th March, 1946—18th April, 1946	3,866.6	8.5
6	6th May, 1946—18th May, 1946	2,378.4	7.0
	Total, Season 1945-46	38,223.9	8.24 Average

Irrigation Number.	Period.	Acre Feet Pumped.	Average Depth per Watering.
			Inches.
<i>Merbein Irrigation District.</i>			
1	27th August, 1945—21st September, 1945	5,504.2	8.5
2	5th November, 1945—30th November, 1945	5,863.5	9.26
3	10th December, 1945—5th January, 1946	5,818.0	9.1
4	14th January, 1946—14th February, 1946	6,306.0	8.6
5	1st April, 1946—25th April, 1946	4,906.0	8.6
6	14th May, 1946—18th May, 1946	810.1	6.0
	Total, Season 1945-46	29,207.8	8.34 Average

DRAINAGE.

RED CLIFFS AND MERBEIN.

Necessary maintenance has been carried out on the underground drainage systems in these districts, in addition to which minor extensions of 19 chains of 4-inch earthenware pipe were carried out.

NYAH.

After a considerable period of inactivity due to lack of men and materials, the extension of drains for Drainage System "A" at Nyah has made substantial progress, a total of 7 miles of pipes having been laid since the resumption of the work.

URBAN SUPPLIES.

WIMMERA AND MALLEE.

During the year the storages of the 37 pipe-reticulated townships in the Wimmera and Mallee directly controlled by the Commission had their supplies of water replenished from the Wimmera-Mallee domestic and stock system with which they are connected. In addition bulk supplies of water were made available from this system to the towns and townships of Horsham, Murtoa, Warracknabeal, Donald, Charlton and Underbool, which are controlled by Local Waterworks Trusts.

However, extreme drought conditions and the considerably reduced quantities of water in the Wimmera-Mallee main storages and doubts as to the prospects of replenishment of these storages made it necessary to impose restrictions on the use of water for gardens. Such restrictions continued until March, 1946, when drought-breaking rains replenished the Grampian storages.

Water for the towns of Carwarp, Meringur, Nyah, Nyah West, Piangil, Red Cliffs and Werrimull was supplied from the River Murray, and it was not necessary in those cases to impose any restrictions on urban supplies.

SAND DRIFT.

WIMMERA-MALLEE.

As far back as 1933 a Committee was appointed to report on the sand-drift problem in Mallee areas, and in its report the Committee stated that unless methods of farming were revised the sand-drift problem would assume proportions which might necessitate abandonment of parts of the Commission's channel system. Unfortunately insufficient attention was given to this report and the farming community in general continued to overstock and to farm their holdings in the Mallee in a manner which accentuated soil erosion.

As a result of this, and following upon the abnormal drought years of 1944-45, the Commission had to face the enormous task of removing 12,000,000 cubic yards of sand from its channels for the 1945 watering season, and many miles of channel which had been cleaned out in readiness for the 1945 watering were again filled with drift sand. This required the removal, before the 1946 watering could be carried out, of more than average yearly quantities of sand from the channels.

The Commission must continue to strongly emphasize the necessity for farmers to co-operate in every way in the prevention of soil erosion by adopting farming methods which will reduce this menace to a minimum. Unless proper soil control methods are used

in the Wimmera-Mallee areas the Commission will eventually be faced with the abandonment of its channel system in those sections of the area where the cost of sand cleaning is becoming out of all proportion to the benefits and the revenue received.

The following table shows the cost of the removal of sand from the domestic and stock channels in the Wimmera-Mallee Area including the Millewa, Carwarp and Coreena Districts.

The table covers the years 1928-29 to 1945-46.

Financial Year.						Amount.	Calendar Year (Watering Year).	Amount.
						£		£
1928-29	..	..	..	..	..	119,920	1928	..
1929-30	..	..	..	..	..	98,961	1929	133,137
1930-31	..	..	..	..	..	83,610	1930	110,997
1931-32	..	..	..	..	..	48,504	1931	51,927
1932-33	..	..	..	..	..	41,410	1932	33,716
1933-34	..	..	..	..	..	40,270	1933	44,153
1934-35	..	..	..	..	..	66,085	1934	50,200
1935-36	..	..	..	..	..	66,519	1935	75,133
1936-37	..	..	..	..	..	56,892	1936	64,991
1937-38	..	..	..	..	..	69,597	1937	52,523
1938-39	..	..	..	..	..	77,886	1938	71,925
1939-40	..	..	..	..	..	91,305	1939	104,561
1940-41	..	..	..	..	..	77,168	1940	63,477
1941-42	..	..	..	..	..	78,048	1941	74,025
1942-43	..	..	..	..	..	78,147	1942	79,410
1943-44	..	..	..	..	..	70,875	1943	62,926
1944-45	..	..	..	..	..	143,362	1944	70,450
1945-46	..	..	..	..	..	322,827	1945	312,419
Figures for the years 1942-43, 1943-44 and 1944-45 which appeared in previous Annual Report did not include amounts for Millewa, Carwarp and Coreena.						1,637,559	..	1,455,970

MAIN PUMPING STATIONS.

The Commission's main pumping stations, are situated on or near the River Murray and serve the waterworks districts of Millewa, Yelta, Carwarp and Coreena and the Irrigation Districts of Red Cliffs, Merbein, Nyah and Tresco. In addition there are numerous other plants for pumping water for domestic and stock supplies to lands above the normal gravitation level in the central and western gravitation supply areas. Water supplies to a considerable number of townships also involve pumping.

The replacement of the six original boilers installed at Red Cliffs in 1921 has been advanced further by the letting of tenders for two modern water tube boilers. When this work has been carried out four of the original six boilers will have been replaced.

Great difficulty has been experienced by the State Rivers and Water Supply Commission in obtaining sufficient briquettes and black coal to meet the requirements for a full season's watering to be provided by the Red Cliffs Power Station.

Fuel supplies at Red Cliffs have been barely sufficient to meet each watering and there have been no reserves at all. The threat of continued shortages of briquettes and coal makes the outlook for full waterings in the coming season extremely serious.

The Commission is, therefore, awaiting with considerable interest the completion of the investigations by the State Electricity Commission and other Victorian Authorities into the proposal to establish a Central Power Station at Mildura.

At the Millewa, Nyah and Tresco pumping stations the fuel position has been satisfactorily met with adequate supplies of firewood from private contractors and it has been possible to maintain a reserve of fuel to cover a period of two years.

INVESTIGATIONS AND DESIGNS BRANCH.

The Investigations and Designs Branch carries out the investigation and design of water conservation and distribution projects for the development of the water resources of the State, and for the extension of existing supply systems. The Branch consists of five sections, namely :—

- (1) Water Resources, including Hydrology and Hydraulic Research.
- (2) Dam Engineering, which includes Earth and Concrete Dams, Outlet and Control Works, Field Investigations, Geology and Design Studies.
- (3) Town Water Supplies.
- (4) Rural Water Supplies, involving Irrigation, Drainage and Domestic and Stock Water Supply Systems.
- (5) The Executive Section, which undertakes Programme and Production Planning, Special Investigations, Specifications and Contracts, Drafting and Tracing, Routine Office services and the preparation of publications, films and displays.

The need for the further development of the State's water resources has increased the demands upon the Investigations and Designs Branch.

At 30th June, 1946, the number of investigations in progress and awaiting attention totalled 151, of which 112 are classed as major investigations. The total number of major investigations in progress during the year was 14, but the increasing number of projects now under construction and urgently requiring detailed plans, together with the continuing loss of skilled staff, will greatly reduce the number of major projects on which it will be possible to carry out planning during the coming year.

Brief descriptions of the more important investigations of the Branch carried out during the year are as follows :—

WATER RESOURCES INVESTIGATION.

BROKEN RIVER.

Further work on the investigation of the water resources of the Broken River in connexion with supplies to rural areas in the Shires of Benalla, Shepparton and Tungamah has been carried out, and included investigations of stream flows and of possible storage sites to determine the most suitable localities for and sizes of storages as well as the possible regulated discharges from such storages. This work has been suspended owing to loss of officers who were engaged on investigations.

CAMPASPE RIVER.

A comprehensive hydrological investigation of the Campaspe River Basin is in progress and will enable the ultimate development of the resources of this Basin to be determined.

Investigations have been continued into the possibilities of greatly enlarging the Eppalock Reservoir and plans suitable for presentation to the Parliamentary Public Works Committee are approaching completion.

GOULBURN RIVER.

Eildon Reservoir.—Previous investigations have shown that it would be practicable to provide a storage of 2,350,000 acre feet of water at the site of the existing Eildon Reservoir, which has a capacity of 306,000 acre feet. A number of alternative designs including concrete and earthen dams have been prepared for the dam at this site, and it would appear that an earthen dam approximately 250 feet high and some 3,300 feet in length and involving some 13,000,000 cubic yards of earth and rock fill would be most suitable. Geological and topographical surveys of the site for this dam have been made, and field investigations continued for the purpose of examining the foundation and abutment conditions at the dam site and the types and properties of the materials available for construction. This work has involved the design of special apparatus for sampling and testing the soils and rock available for construction, the sinking of bores, shafts and trenches, and the construction of trial embankments for the study of the behaviour of available materials under construction processes.

Preliminary designs and reports on this project have been prepared and are ready for consideration by Dr. J. L. Savage, the eminent American engineer, who has been retained by the Commission as a consultant on this project.

The Chief Designing Engineer, Mr. R. G. Knight, and the Designing Engineer for Dams, Mr. M. G. Speedie, have already had initial discussions with Dr. Savage in Denver, U.S.A., and it is expected that Dr. Savage will visit Australia and inspect the site in September, 1946. An aerial survey of the Eildon Reservoir storage basin has been undertaken by the State Aerial Survey of the Department of Crown Lands and Survey, and it is anticipated that topographical plans of this basin will be available before the end of 1946. A survey along two contours now being carried out by the Commission will provide reliable ground control for the aerial survey.

Investigations of possible other sites on the Goulburn River and its tributaries upstream of Eildon Reservoir have also been made and a report embodying the results of these investigations has been completed.

Goulburn-Waranga Main Channel.—The Goulburn-Waranga Main Channel, some 23½ miles in length, conveys water from the Goulburn Weir to Waranga Reservoir, and also supplies the eastern portion of the Rodney Irrigation and Water Supply District. The increased quantities of water that would become available when the capacity of Eildon Reservoir is increased to 2,350,000 acre feet would be largely utilized by diversion from the Goulburn Weir to the Waranga Basin and Goulburn Irrigation System. Investigations have shown that a capacity of 3,000 cusecs for the Goulburn-Waranga Channel would provide for the maximum utilization of the waters of the Goulburn River, and the ultimate development from this source of areas west of the Goulburn River. This capacity could best be provided by retaining the existing channel to carry 1,500 cusecs and the construction of a new duplicate channel of similar capacity.

A special aerial survey of the route of the new channel was made for the Commission by the State Aerial Survey, and this greatly facilitated the preparation of preliminary designs and estimates. A report was submitted to the Parliamentary Public Works Committee in February, 1946. At the time of submission of the report, the estimated cost of this work was £1,360,000, but changes in conditions for workmen and the reduction of hours from 44 to 40 per week as from the 1st July, will increase the cost to an estimated amount of £1,620,000.

LODDON RIVER.

Following the approval of the Government for the construction of a dam to impound 120,000 acre feet of water at the Cairn Curran site, investigations and surveys have been extended to obtain the information necessary for the detailed design of this structure. This work has included a detailed examination of the site by bores and shafts, and testing of the available construction materials. Final designs of the dam and a topographic survey of the basin are now in progress.

Investigations of sites for storages on the upper reaches and tributaries of the Loddon River were continued, and surveys of the Tullaroop Creek between Carisbrook and Clunes, the Loddon River near Glenluce, and the Bet Bet Creek near Bung Bong have been completed. Preliminary designs and estimates are in course of preparation for a dam on the Tullaroop Creek near Rodborough. This storage would not only safeguard supplies to the town of Maryborough, but also would augment the regulated outflow from Laanecoorie Reservoir for irrigation. A preliminary report for presentation to the Parliamentary Public Works Committee will be completed by September, 1946.

Further work on other storages on the Loddon River and its tributaries has been suspended owing to lack of professional staff.

RIVER MURRAY.

Hume Reservoir.—In view of the proposed enlargement of the capacity of this reservoir, investigations are being made to determine the most suitable method of protecting the township of Tallangatta from inundation.

Torrumbarry System.—Preliminary investigations of the Torrumbarry Irrigation System which includes the districts of Cohuna, Koondrook, Kerang, and Swan Hill, have been completed, and a report on the construction of main channels to bypass the Kerang Lakes and to replace the natural water courses now used as irrigation water carriers has been presented to the Government.

HYDROLOGY OF VICTORIAN RIVERS.

From time to time investigations have been made of specific projects to utilize the water resources of the various rivers in Victoria. In this work, it is impossible to consider the climatic and hydrologic characteristics of one river basin apart from those of the

neighbouring basins. Consequently, an investigation is now in progress to co-ordinate previous work and investigate the meteorology and hydrology of the rivers of Victoria on a systematic and comparative basis. A comprehensive report on the hydrology of the Campaspe River Basin has been prepared, and similar reports are in progress for the Loddon River Basin and the Lake Wellington Basin. However, it is anticipated that, on the completion of these reports, the work will have to be suspended and further hydrological investigations will have to be deferred owing to loss of officers engaged on this work.

WERRIBEE RIVER.

Further investigation of storage possibilities on the Werribee River and tributaries was carried out during the year. It has included detailed examinations of and designs and estimates for—

- (a) a dam on the Lerderderg River near Sardine Creek to impound 19,000 acre feet ;
- (b) the raising of Pyke's Creek Reservoir and the construction of improved facilities for diverting the flow of the Upper Werribee River through the inlet tunnel to this reservoir ; and
- (c) a dam on the Werribee River near Cobbledick's Ford to impound 19,300 acre feet.

It was found that the last proposal, i.e., the construction of a dam near Cobbledick's Ford, was the most suitable, and preliminary designs and estimates for a dam to impound 19,300 acre feet at this site at a cost of £630,000 have been completed and a report presented to the Parliamentary Public Works Committee.

PROJECTS UNDER DEVELOPMENT.

MURRAY VALLEY IRRIGATION.

Investigation surveys and designs were continued during the year for extensions to the irrigation channel system to serve the westerly portion of the district. Designs and plans were prepared for approximately 150 miles of irrigation channels, involving the excavation of 640,000 cubic yards of earthworks and some 700 channel and control structures and road and occupation crossings.

In view of the Government's proposal to acquire some 60,000 acres of the best lands in the Murray Valley District for soldier settlement purposes, an investigation has been made of the effect that the closer settlement of this area would have on the design, construction, and operation of the channel system. Contour surveys are in progress, and preliminary designs are being prepared for the land subdivision, irrigation, and drainage of the proposed soldier settlement area.

The design of the Irrigation System has been made with the drainage of the whole district in view, and investigations have shown that the drainage system will involve some 275 miles of drainage channel.

CENTRAL GIPPSLAND IRRIGATION.

Investigation and design of the channel system to supply water to the Nambrook-Denison area has been continued. Investigations are also in progress to determine the ultimate development of irrigated land between the Thomson and the Avon Rivers. This has involved an examination of the capacity of the existing Main Northern and Southern Channels from Glenmaggie Reservoir to the Maffra-Sale Irrigation District. To obviate the need for enlargement of the Main Northern Channel, investigations are being made of several alternative methods of supplying the southern portion of the Maffra-Sale District. Hydrographic investigations of the flows in the Macalister River have been made, and preliminary designs and estimates have been completed for increasing the storage at Glenmaggie Reservoir to 150,000 acre feet.

In connexion with the special problems associated with the Central Gippsland Project, the Assistant Chief Designing Engineer, Mr. T. A. Lang, and the Executive Engineer, Mr. C. L. Sanders, visited New Zealand in February and March, 1946, and made an inspection of similar work that has been carried out in connexion with irrigation projects in that Dominion.

GLENELG RIVER—DOMESTIC AND STOCK.

Rocklands Dam and Outlet Channel.

The preparation of final detailed plans for the Rocklands Dam now under construction on the Glenelg River near Balmoral, and the outlet channels therefrom are nearing completion. The water stored by this dam will be conveyed by channel to the Taylors Lake and Pine Lake storages, which serve the Wimmera-Mallee Domestic and Stock Water Supply System.

COLIBAN.

Lauriston Reservoir.

Final designs for the installation of spillway gates at Lauriston Reservoir, to increase the capacity from 12,000 to 16,000 acre feet were completed, and tenders have been accepted for the manufacture and installation of the gates.

TOWN WATER SUPPLIES.

BALLARAT—WHITE SWAN DAM.

Advice was given regarding the design for the proposed White Swan Dam to be constructed by the Ballarat Water Commissioners. This dam, which will be an earthen embankment 130 feet high and 1,570 feet in length, will store some 3,000 million gallons to augment supplies to Ballarat.

MERBEIN AND RED CLIFFS.

Preliminary investigations for the improvement of supplies to the townships of Merbein and Red Cliffs have been completed and reports prepared. These proposals provided for improvements to the existing reticulations, new high-lift pumps, elevated storages and treatment plants.

TALLYGAROPNA.

Preliminary investigations and estimates for the provision of a town water supply for Tallygaroopna have been completed and final designs for construction will be completed in August, 1946.

OTWAY WATERWORKS DISTRICT—NOORAT AND GLENORMISTON.

The proposed scheme provides for a pipe line from an offtake from the main Otway Supply pipe line near Terang to a one-million gallon service basin at Noorat, and pipe lines to Noorat and Glenormiston. The service basin will normally be filled by gravitation, but a booster pump will be installed to provide for the periods when water is being supplied to the Warnnambool storage. Supply from the service basin will be by gravitation.

GENERAL.

In accordance with the Government's policy for the improvement of the water supply to country towns, preliminary investigations in regard to a number of towns were commenced. However, owing to the necessity to concentrate available staff on projects already under development and the impossibility of obtaining suitable additional staff, work on these projects has been suspended.

IRRIGATION, RURAL WATER SUPPLY AND OTHER PROJECTS.

Nyah.

Very little progress with the investigations and designs for further sub-surface drainage of the Nyah Irrigation District has been made during the year owing to lack of staff. A topographic survey of the area to be served is in progress, and has been greatly facilitated since aerial mosaics prepared by the State Aerial Survey have become available.

HUNTLY—ELMORE DOMESTIC AND STOCK WATER SUPPLY.

Preliminary surveys have been carried out, and investigations and designs are in progress for a domestic and stock water supply to lands in the Huntly-Elmore area between Goornong and Warragamba. A preliminary report on this project is nearing completion, and should be ready for consideration by the landholders in November, 1946.

PIANGIL IRRIGATION.

Preparation of preliminary designs and estimates have been continued for alternative schemes to supply an area of 7,000 acres of lands near Piangil by pumping from the River Murray. A report on this project should be ready for consideration by landholders in October, 1946.

BOORT AND DEAKIN IRRIGATION SYSTEMS.

Investigations for the remodelling of the channels in the Boort and Deakin Irrigation and Water Supply Districts, and possible extensions thereof have had to be suspended owing to lack of staff.

HYDRAULIC EXPERIMENT STATION.

Many of the problems associated with the investigation and design of water conservation works can be adequately solved only by carrying out investigations by means of hydraulic models of the works under consideration. This method of investigation is standard practice for all major hydraulic works, and in view of the Commission's programme, investigations are being made of possible sites for such a station.

Several sites have been examined, but owing to the loss of the officer engaged on this work, it has had to be suspended. As these investigations are essential for the preparation of final designs of spillways, outlets, control works, and other features of the Eildon and other major projects, it is imperative that this work be recommenced as soon as possible.

MEASUREMENT OF WATER.

The standard Dethridge meter has been redesigned to provide for construction in steel instead of timber and steel.

A special meter for measuring small irrigation supplies has been designed and a model has been made for laboratory and field testing.

MURRAY AND MAJOR WORKS DIVISION.

MAJOR WORKS.

Reservoirs.

Although the Hume Reservoir was practically emptied in May, 1945, when it contained only 10,000 acre feet, it was completely filled by November, 1945, the highest level recorded being 1 foot 8½ inches above the spillway.

Necessary maintenance was carried out on the Hume Reservoir, the Yarrawonga Weir, the Torrumbarry Weir and Lock, the Mildura Weir and Lock, the Laanecoorie Reservoir, Glenmaggie Reservoir, Eildon Reservoir, Goulburn Weir, Waranga Reservoir and Malmesbury Reservoir. Tenders for steel flood gates to increase the storage capacity of the Lauriston Reservoir from 12,000 acre feet to 16,000 acre feet were accepted in June, 1946, the amount of the tender being £19,789. It is expected that the work will be completed within twelve months.

NEW WORKS.

ROCKLANDS RESERVOIR.

Prior to suspension of works on the 28th February, 1942, progress with the construction of the Rocklands Dam on the Glenelg River near Balmoral, had been limited to preliminary works, including provision of camp facilities, staff housing, workshops, and access road. As the buildings and engineering services then installed were suitable for immediate use, the Royal Australian Air Force occupied the camp for training purposes and did not vacate the area until November, 1944.

Work was resumed by the Commission in January, 1946, and 150 men were employed at the end of June. During the period, the construction of the coffer dams in the river was commenced, and it is expected that these will be completed and the foundations in the bed of the river exposed by the end of 1946.

Excavation of the foundations of the dam, outside the river channel and for the offtake channel in the vicinity of the dam, has commenced, and a quarry for the supply of stone for concrete aggregate has been opened up.

Further buildings for camp and works requirements have been erected, special attention having been given to the provision of housing for married employees. For this purpose, a type of demountable house built up of prefabricated cement-asbestos panels, has been developed. It is proposed to erect 80 of these houses at Rocklands and contracts for the supply of panels have been let and deliveries of materials commenced.

Difficulties in obtaining essential supplies of materials, plant, and equipment have considerably restricted progress, while floods during March and rainfall above the average later in the year, retarded the delivery of sand and timber supplies from local sources.

MURRAY VALLEY CHANNEL CONSTRUCTION WORKS.

Channel construction work continued during the year in the Murray Valley district, and the work included the reticulation of the Parishes of Baulkamaugh, the eastern half of Waaia, and the southern portion of Ulupna. All the structures on channels in the Strathmerton area have been completed on No. 2 system.

During the year, water was made available to an additional 9,000 acres in the Murray Valley district. A large camp has been established near Numurkah for the accommodation of men employed on the works.

The average number of men employed during the year was 135, including 20 on earthwork contracts. Approximately 356 miles of main and spur channel earthwork, involving the excavation of nearly 6,200,000 cubic yards of earth have now been completed.

Of the total length of channelling, some 225 miles now have the necessary structures installed and these channels are in operation.

CAIRN CURRAN.

It has not been possible to start actual construction work at Cairn Curran Reservoir site, but, several staff appointments have been made and work is proceeding on the construction planning.

Some materials for camp construction have been obtained, and it is hoped that the preparation of the camp will be well advanced by the end of 1946 and workshop and other facilities established.

EARTH MOVING PLANT.

CENTRAL DEPOT.

In order to provide adequate facilities for the servicing and maintenance of the large amount of mechanical plant which the Commission is acquiring for the carrying out of its works, arrangements have been made for the establishment of a Central Plant Depot, at Kangaroo Flat, near Bendigo. An area of 10 acres of Crown lands, conveniently situated to road and rail transport, electric power and water supply has been obtained for this purpose. Construction work at the Depot has already been commenced and temporary buildings erected to enable plant to be prepared for use. Since the end of the war every opportunity has been taken by the Commission to acquire suitable plant and equipment for the Commission's postwar works. The value of plant already acquired is £118,000.

HIRING OF MECHANICAL EQUIPMENT TO WATER USERS.

There is now a wider realization among irrigators of the value of mechanical plant for the cleaning of private channels, the construction of drainage ditches, and the excavating of tanks for domestic and stock requirements, and the Commission has been in a position to meet portion of the demand for the hiring of mechanical equipment for these purposes. The result of the work carried out in this way will become evident during the coming irrigation season by the speeding up of water deliveries to irrigators who were able to avail themselves of the use of this plant.

TOWN WATER SUPPLIES.

COLIBAN SYSTEM.

Owing to the low rainfall in the catchment area during the first half of the year 1945, the Coliban storages comprising the Upper Coliban, Lauriston, Malmsbury, and Spring Gully Reservoirs, with a total capacity of 54,000 acre feet, but which had not been filled to overflow level since October 1942, contained only 8,000 acre feet of water at the 1st July, 1945. As a result, however, of the good rains falling in the next few months the storage

increased to 26,000 acre feet by 1st October. The quantity stored was not sufficient to enable full supplies of water to be given for irrigation, and in order to safeguard the domestic supplies for the important towns in the Coliban area, it was necessary to introduce restrictions on the use of water for irrigation on the same basis as those which were in operation the previous year, when the supply was limited to a little more than one-third of normal irrigation requirements.

The prolonged drought conditions broke early in the year 1946, and were followed by beneficial rains which together with the restricted supply that was made available from the storages, were largely responsible for the satisfactory season experienced by the orchardists and tomato growers in the district.

During the year, many necessary improvements have been carried out to the reticulations of Bendigo and some of the smaller towns. These included the replacement of some 385 chains of old cast and galvanized iron mains of sizes varying from 6 to 1½ inches by asbestos cement pipes of greater carrying capacity and of diameters not smaller than 3 inches. A new 6-inch fibrolite main has been laid from the service basin at Marong to the township, a distance of 64 chains, replacing a 5-inch wood main that had reached the end of its useful life.

An important work that is about to begin is that to improve the supply to the south-eastern portion of Bendigo by laying a new 12-inch cement-lined steel main 162 chains long from the 27-inch high pressure main at the corner of High and Myrtle streets to Neil-street, together with 59 chains of 9 inch and 20 chains of 6 inch mains. This work will not only meet present requirements, but will provide for future expansion in this locality.

To satisfy the demand for water occasioned by the activity displayed in house building in Bendigo early this year, extensions totalling a length of 35 chains were undertaken.

Concrete lining of channels which had practically ceased during the war was resumed this year, when £40,000 was made available for this work. Since the work began, 2 miles 65 chains of main and branch channels have been completed. The total length of main channel now lined is 18 miles 31½ chains, and that of branch channels 30 miles 74 chains. A number of old timber bridges and culverts have also been renewed in reinforced concrete.

The work of replacing the Muckleford portion of the Maldon supply main was commenced towards the end of the year. This main was laid over thirty years ago. It is being replaced by a 10-inch diameter cement-lined steel pipe.

The number of water meters installed during the year was 498. The total now in operation is 5,328, which represents 44 per cent. of the total water services.

NEWSTEAD.

Sufficient water to meet all requirements was available throughout the year from the storage reservoir, which is filled from the Jim Crow Creek.

BELLARINE PENINSULA.

The work of replacing 24 of the pipe culverts on the Wurdee Boluc outlet channel with new 5 feet x 4 feet concrete culverts will be completed in time for use during the coming summer. This work will increase the capacity of the channel from 7 to 14 cusecs.

The replacement of 287 chains of 9 inches diameter spiral steel cement-lined main from the Bellarine Basin to the Queenscliff Service Basins with a 12-inch diameter main is well in hand some 40 chains having been laid, and it is anticipated that the 12-inch main will be in operation during the next season.

WINCHELSEA.

The townspeople of Winchelsea, where water supply is provided by a local Trust, have for some time been pressing for an improved water supply system to be obtained by gravitation from the Commission's Wurdee Boluc Reservoir, some 5 miles distant from the town. The necessary works have been completed by the Trust and this system is now in operation, the outlet pipe at the western end of the Reservoir having been tapped and the new supply made available to the township by means of a fibrolite main.

This system replaces the previous unsatisfactory supply for the town obtained by means of pumping from the adjacent Barwon River.

BIRREGURRA.

The residents of Birregurra have requested a supply of water for the township from the Bellarine System, and a scheme estimated to cost £18,900, including £2,400 for headworks was prepared by the Commission under the Town Water Supplies Committee's formula. The assistance to be provided by the State in respect to this Scheme is in the vicinity of £8,600, which will enable the rate to be reduced to 2s. 4d. in the £ as in the other towns served from the Bellarine System.

The townspeople having indicated their acceptance of the proposal, an urban district has now been proclaimed and the construction of the inlet channel from the Main Wurdee Boluc Reservoir to the storage reservoir has been commenced.

In addition a contract for the construction of a twin earthen storage reservoir with a capacity of 17 million gallons on high land overlooking the township has been let. It is hoped that, if the necessary materials can be obtained, water will be available to the Birregurra township during the coming summer.

WONTHAGGI.

The water supply to the townships of Wonthaggi, North Wonthaggi, and Hicksborough, and to the State Coal Mine has been satisfactorily maintained, and during the year North Wonthaggi and Hicksborough were combined with Wonthaggi in one Urban district. This brings about uniformity of rating through the area.

OTWAY WATERWORKS DISTRICT.

The total rainfall during the year in the catchment at Arkins Creek, Wyelangta, was 95 inches, 34 inches greater than the previous year.

To meet the growing demand for water by the City of Warrnambool, and to permit of a supply to Dennington, the Commission decided to construct an auxiliary storage reservoir and instal a booster pump on the eastern outskirts of the City.

The supply of water to the City of Warrnambool for the year was 265,310,000 gallons, an increase of 1,738,000 over the previous year. Supplies to Camperdown, Terang, and Cobden have been satisfactory.

NOORAT AND GLENORMISTON.

A proposal to supply the townships and rural areas of Noorat and Glenormiston was accepted by the residents.

The factories of Trufood of Australia Ltd., and the Glenormiston Butter and Cheese Co., which will be large consumers, will also be included in the scheme.

The supply will tap the Otway main pipe line about one mile east of the Terang township. Some 6 miles of 12-inch diameter and 15 miles of 9-inch, 8-inch, 6-inch, and 4-inch diameter pipes will be laid. A reinforced concrete service basin of one million gallons will be constructed on the high land at Noorat.

During the summer months, the supply will be by gravitation from the Mount Ewan Reservoir, but when the Tank Hill Reservoir, which supplies the City of Warrnambool and the township of Allansford is being filled in the winter, it will be necessary, in order to maintain a pressure sufficient to satisfactorily supply the high lands beyond Noorat, to augment the supply by pumping. For this purpose, an automatic electric booster pump will be installed near Noorat.

MORNINGTON PENINSULA.

Lysterfield Reservoir.

The Commission is now preparing a scheme of afforestation for the 3,000 acres of catchment area of the Lysterfield Reservoir recently resumed by the Commission.

The continued dry conditions which existed throughout Victoria during the year were reflected in the reduced flows that occurred in the Bunyip River at the offtake of the Bunyip Main Race.

The flow in the Race required to meet maximum demands is 9 cusecs, but during portion of the months of December and January, although the full flow of the river was taken, the flow in the Race was reduced to less than 6 cusecs. However, it was unnecessary for the Commission to impose restrictions on the use of water as consumers responded voluntarily to requests to economise in the use of water during the periods of shortages.

A comprehensive investigation into the water supply position to the whole of the Mornington Peninsula System is now nearing completion.

To provide for continued expansion throughout the district, investigations are being made of a project to obtain additional water for the Mornington Peninsula System from the Tarago River, where ample supplies are available.

Improvements were effected during the year to the Bittern Reservoir, from which the Dromana-Portsea section of the system was completed.

The laying of a new 21-inch diameter reinforced concrete main from the Frankston Reservoir is completed and operating successfully. This main will materially improve the supply to the Frankston-Carrum districts. It is intended to instal in this pipe line an electrically operated Venturi meter with automatic bypass. This meter will record accurately flows varying from 3,000 to 400,000 gallons per hour, and provide very useful data for the design of future improvements. In order to improve the supply of water to the Chelsea-Carrum areas, approval has been given to a comprehensive scheme of pipe enlargements and replacements.

This work will involve the laying of nearly 3 miles of 12-inch diameter mains from the neighbourhood of Birdwood-street, Aspendale, to Bondi-road, Bonbeach, and the laying of approximately 5 miles of 6-inch and 4-inch diameter mains to replace existing small mains in many other streets in the district. This work will be carried out as soon as materials become available.

The new 24-inch diameter reinforced concrete main which was laid from Gladstone-road to the Dandenong Reservoir was completed and is operating successfully, and the Commission intends to proceed as early as possible with improvements to the reticulation system in Dandenong itself.

Tenders have been invited for the laying of a new 18-inch diameter main in Gladstone-road northerly for 70 chains, and a 12-inch diameter main in Heatherton-road from Gladstone-road to Cleeland-street, thence along Cleeland-street to the centre of the township at Prince's Highway.

The quantity of water delivered for market garden purposes from the Lysterfield Reservoir for the year was 115,955,000 gallons.

WATERWORKS TRUSTS AND LOCAL GOVERNING BODIES.

There are now 133 local water authorities—117 Waterworks Trusts and 16 Local Governing Bodies—which, under the general supervision of the Commission, supply water for domestic and industrial purposes in country towns.

During the year under review, three new Waterworks Trusts, the Shire of Ararat Waterworks Trust, the Kiewa Waterworks Trust, and the Mirboo North Waterworks Trust, were constituted to construct and manage town water supplies at Willaura, Kiewa-Tangambalanga and Mirboo North respectively.

The supply of water for Lilydale is obtained from the Melbourne and Metropolitan Board of Works under a special agreement, and as the Lillydale Shire Council agreed to assume full responsibility for local administration, the Lillydale Waterworks Trust was abolished.

The persistence of drought conditions necessitated the continuation of restrictions on the use of water in many towns until the late summer months, when good rains brought relief.

Following the end of the war many more local water authorities are preparing to take advantage of the Town Water Supplies Committee formula for Government financial assistance towards the cost of water supply works. Numerous proposals for new supplies and extensive improvements to existing supplies received the Commission's approval, but the progress achieved in construction of works has been severely restricted owing to the shortage of labour and materials, particularly piping.

The Ballarat Water Commissioners commenced preliminary construction work at the site of a new storage of 3,000 million gallons capacity. This major project, which was approved during the year, will more than double the supply available to Ballarat in dry years.

The Broadford Waterworks Trust commenced construction of an enlarged reservoir to provide an adequate supply during the summer months.

The Devenish Waterworks Trust constructed a new storage which will obviate the necessity of enforcing restrictions in dry seasons.

The Geelong Waterworks and Sewerage Trust is laying a new 24-inch main, together with subsidiary mains to enable that portion of the city's supply, which is obtained from the Commission's Bellarine Peninsula System to be substantially increased.

The Kilmore Waterworks Trust laid new pipe mains and constructed a large storage basin to utilize the stream flow from a greatly enlarged catchment area. These works, together with proposed further improvements to the main pipe line, are designed to overcome acute shortages of water in dry years.

The Macedon Waterworks Trust has commenced construction of a new earthen storage to provide an augmented summer supply to its Waterworks District.

The Maryborough Waterworks Trust installed a borehole pumping plant at Carisbrook, and rising main to augment the existing supply in dry seasons.

The Rutherglen Waterworks Trust constructed a concrete-lined storage basin as the first stage of a re-organization of its supply system. A re-organization, which includes re-locating the pumping plant at a more favorable site on the Murray River.

The St. Arnaud Borough Waterworks Trust continued the construction of the storage basin, pumping plant, and rising main to obtain a supply by pumping from the volcano storage filled from the Commission's Charlton Channel.

The Warragul Waterworks Trust commenced the enlargement of its main pipe line to meet the increasing demand for water in the town.

The Winchelsea Waterworks Trust installed a main pipe line, which provides the town with an improved supply by gravitation from the Commission's Wurdee Boluc Reservoir in lieu of the former pumped supply from the Barwon River.

Pipe extensions and other works were carried out for 20 towns—Ararat, Benalla, Colac, Echuca, Hamilton, Heathcote, Koo-wee-rup, Mildura, Mooroopna, Morwell, Nhill, Port Fairy, Portland, Rochester, Seymour, Swan Hill, Wangaratta, Warburton, Warrnambool, and Woodend, while 25 Trusts made investigations into the question of substantial improvements to their works. In many of these cases, detailed plans were completed and tenders let for the supply of piping.

The installation of new town water supplies was approved at Bruthen, Cowangie, Lara, Penshurst, and Tooborac. Six townships in the northern part of the Colac Shire—Alvie, Beeac, Coragulac, Cororooke, Cressy, and Warrion—were supplied by enlargement and extension of the Colac supply.

SEWERAGE.

There are now 40 Sewerage Authorities in country centres, and in 27 of these centres sewerage systems are in operation.

Sewerage construction in Victoria was suspended in March, 1942, at the direction of the Commonwealth Government to conserve materials and labour for the war effort. Although many of the materials used in sewerage systems and house connexions are now urgently required for housing projects, it has already been possible to re-commence some of the works interrupted in 1942. The installation of house connexions has been resumed at Kyneton, Dimboola, and Nhill, where the main sewerage systems were in operation, and a large proportion of the houses had been connected to the sewers when works were suspended.

At Kyabram, Mornington, and Portland, where the main systems are also in partial operation, and at Leongatha, Maffra, Traralgon, and Yarrawonga, where the schemes are partially completed but not operating, the resumption of construction work has not yet been found practicable. Plans have been prepared, but work has not commenced at seven other centres at Beechworth, Euroa, Lorne, Sale, Werribee, Wodonga, and Yarram.

Minor sewer extensions to serve Housing Commission building projects and newly-established country factories, and essential replacement works were undertaken at Ararat, Bairnsdale, Benalla, Dandenong, Geelong, Hamilton, Kerang, Portland, Wangaratta, Warragul, and Warrnambool.

As the result of the adoption of a new scale of Government financial assistance towards the capital cost of country sewerage schemes, in addition to existing State assistance in meeting all interest charges in excess of 3 per centum on loans raised to meet the Sewerage Authority's share of the capital cost, sewerage schemes have now become financially practicable in a large number of towns.

During the year, revised proposals for sewerage schemes at Charlton, Maryborough, Mooropna, and Tatura were approved. The Charlton Sewerage Authority and the Maryborough Sewerage Authority were constituted and are now carrying out the detailed surveys of their respective sewerage Districts.

A sewerage scheme for the Borough of Queenscliff, which embraces the towns of Queenscliff and Point Lonsdale, has also been approved, and several other schemes have been submitted for examination.

DRAINAGE AND FLOOD PROTECTION WORKS.

KOO-WEE-RUP AND CARDINIA DISTRICTS.

In the Yallock area of the Koo-wee-rup District, Scanlan's Drain and the No. 4 Drain have been deepened and remodelled for a combined distance of 4 miles.

The work of lowering sections of the No. 7 Embankment as a precautionary measure against excessive heading up of flood waters has been completed along a length of $3\frac{1}{2}$ miles from the No. 4 Drain.

The south-east Embankment of the Main Canal has been raised and regraded for a distance of 3 miles below Cora Lynn. The work of loaming and grassing this section of the bank is now in progress.

Privately-owned suction plants, operating under an arrangement with the Commission, have removed 28,400 tons of coarse clean sand from the Koo-wee-rup Main Canal during the year. The total output of sand from this source is approximately 577,400 tons over the period 1925 to 1946.

CARRUM DISTRICT.

Owing to the continued scarcity of labour, maintenance work in the Carrum District has been confined to the carrying out of necessary repairs to structures, and to some cleaning out of supply channels to meet the needs of stock watering during the dry period of the year.

MURRAY LEVEES.

No application for permission to erect levees along the River Murray or adjacent streams has been received during the year by the Interstate Committee appointed for the purpose.

The Water (Levee Banks) Act No. 5117 passed by Parliament in May, to which reference is made elsewhere in this report, provides for greater control of levee bank construction within any area in Victoria which may from time to time be proclaimed by the Governor in Council.

Consideration is now being given to the question of areas adjacent to the River Murray which should be proclaimed under the Act.

RIVER IMPROVEMENT, CONTROL, AND GAUGINGS.

FLOODS.

In the early months of 1946, meteorological conditions produced unusually widespread and heavy rains in sub-tropical Australia. Very heavy flood rains were experienced in the Lorne area about 18th February, and in the Central and North Central districts at the end of that month.

In the latter half of March, the Western District received falls which caused the worst floods known in the south-western corner of the State since white occupation. The conditions which produced these floods were very similar to those responsible for the flood rains of 1934, i.e., an almost stationary cold front and cyclonic system being fed with very moist, warm upper air. Streams rose to extraordinary levels—the Glenelg at Dartmoor was 60 feet above normal—and traffic and production were halted for some days. Several persons were drowned in the McArthur area. Thousands of sheep were lost, railway washaways and stoppages occurred at various points, and road traffic was badly disorganized. Total applications to the Flood Relief Committee amounted to about £147,000.

CATCHMENT CONTROL.

The organization for the control of grazing on the Upper Kiewa River Catchment was brought into operation during the year by the Soil Conservation Board. Two Committees, an Advisory Committee, on which the Commission is represented, and a

Cattleman's Committee were appointed for this purpose. The Advisory Committee inspected the Bogong High Plains, and adjoining country at the end of the grazing season and recommended the number of cattle to be grazed on the area for the coming season and the date of their entry. The Cattlemen's Committee has the duty of deciding the number of stock to be sent up to the Plains by each grazier, and of policing the conditions of the licences.

Experimental work on the Teddington Catchment has been continued. Some interesting results are being obtained which will be dealt with later in a special report.

RIVERS AND STREAMS FUND.

There was no noticeable increase early in the year under review in the number of applications for assistance from the Rivers and Streams Fund for river improvement works. This position was a reflection of the slow return to normal conditions, and also of the fact that no major flooding had occurred on streams for three or four years prior to March this year. Following on the Western District floods, however, extensive river snagging was commenced by the Warrnambool Shire Council on the Merri River, near Warrnambool. Towards the end of the year, there was a definite increase in the number of enquiries regarding grants and requests for inspections. It is expected that as a result of the wetter season and higher rivers, this activity will continue to increase.

Twenty-five grants amounting to £4,243 in all were allotted from the Rivers and Streams Fund to municipalities and other authorities, bringing the total number of grants at 30th June, 1946 to 746 and the amount allotted to £108,758. The revenue received into the fund during the year amounted to £10,315. The credit balance available for allocation at 30th June, 1946, was £43,449.

Attention is drawn to the recommendation of the Parliamentary Public Works Committee that control of this fund should be transferred to the Minister of Water Supply or the State Rivers and Water Supply Commission, which should then be made responsible for river maintenance.

RIVER GAUGINGS.

As provided by Section 32 of the *Water Act* 1928, the gauging and recording of flows of the principal streams of the State were continued. Weekly returns showing the volumes of water stored in reservoirs have been compiled and published in the Press.

With few exceptions, stream flows were again below average for the year 1945-46. However, the drought conditions of the previous two years were terminated generally by better than average rainfall at the end of 1945 and early 1946, and run-off was above average for the first four months of 1946. Flows for May and June again fell considerably below average, except in Gippsland, where they approximated to normal. The volumes of water held in the Commission's storages at the end of June were generally satisfactory.

The following table shows the discharge of some of the principal streams during the year 1945-46, also the average annual discharge and the percentage departure from the average :—

Stream.	Discharge for Year 1945-46.	Average Annual Discharge since Year Indicated.	Percentage Departure from the Average for the Year 1945-46.
	Acre Feet.	Acre Feet.	
River Murray at Jingellic	1,355,900	1,826,000 (1891)	— 26
Mitta River at Tallandoon	705,600	1,094,000 (1887)	— 36
Ovens River at Wangaratta	752,320	1,146,000 (1887)	— 34
Broken River at Goorambat	62,920	203,500 (1887)	— 66
Goulburn River at Eildon Weir	1,073,180	1,373,000 (1901)	— 22
Goulburn River at Murchison	1,560,480	2,261,000 (1882)	— 31
Coliban River at Malmsbury	73,560	50,920 (1890)	+ 45
Loddon River at Laanecoorie	72,060	166,900 (1891)	— 57
Little Wimmera River at Lake Lonsdale Reservoir ..	81,310	69,700 (1904)	+ 27
Lerderberg River at Darley	10,250	28,710 (1908)	— 64
Bunyip River at Bunyip	81,980	120,900 (1908)	— 22
Thomson River at Cowwarr	257,490	322,900 (1901)	— 20
Macalister River at Glenmaggie	347,770	419,300 (1920)	— 17

Eighteen new gauging stations were established. These are set out in the following table :—

Acheron River at Taggerty	Moorarbool River at Morrison's
Bruthen Creek at Woodside	Murrindindi Creek at Murrindindi
Campaspe River at Axedale	Seven Creeks at Euroa
Campaspe River at Elmore	Sunday Creek at Tallarook
Hughes Creek at Avenel	Tarra River at Yarram
King Parrot Creek at Strath Creek	Toolern Creek at Melton
Leigh River at Grenville	Yackandandah Creek at Allan's Flat
Leigh River at Inverleigh	Yea River at Yea
Moorarbool River at Batesford	Wimmera River at Glynwylln

Nine automatic water level recorders were installed during the year, bringing the total now in operation to 31, while 193 stream gauging measurements were carried out.

The number of stations in operation at 30th June, 1946, was 103.

PRIVATE WATER USERS.

The use of waters in rivers, creeks, streams, water-courses, lakes, lagoons, swamps, and marshes has been strictly controlled by the Commission.

As a result of the drought conditions which continued from the previous year into the early portion of the season under review, the natural flow in many streams throughout the State still remained unusually low, and as in previous drought years, it was found necessary to place restrictions on the use of water for irrigation in order to conserve sufficient water for domestic and stock requirements.

On several main streams, where demands for irrigation exceeded the volume of water available the constitution of additional Advisory Committees proved of great benefit both to the Commission and the landholders. At the 30th June, 1946, eight of these Advisory Committees were in operation.

Licences and permits in force at the 30th June, 1946, comprise 285 Diversion Licences for periods up to 15 years, authorizing the irrigation of 15,522 acres, and 2,302 Annual Permits for the irrigation of 23,221 acres, making a total of 2,587 licences and permits issued under Section 188 of the Water Acts compared with 2,012 for the previous year.

Details of licences and permits in operation during the year are set out below :—

—	Industrial.	Vineyards.		Orchards.	Market Gardens.	Tobacco.	Miscellaneous.	Total.
		Dried Fruits.	Table and Spirit.					
Licences—								
Number in force	4	9	5	..	267		..	285
Area authorized to be irrigated (acres) .. ..	..	193	733	1,598	94	52	12,852	15,522
Permits—								
Number in force .. ..	..	22	10	23	280	23	1,944	2,302
Area authorized to be irrigated (acres) .. ..	..	531	229	576	1,484	262	20,139	23,221
Total area authorized to be irrigated (acres) .. ..	..	724	962	2,174	1,578	314	32,991	38,743

Thirty-three additional applications were lodged during the year under review, for Diversion Licences under Section 188 of the *Water Act* 1928, to divert water for irrigation purposes for a period of fifteen years, making a total of 360 received to the 30th June, 1946.

During the year under review, 39 licences were granted by the Governor in Council for periods of fifteen years. No licences are so far in force to divert for irrigation purposes other than from the River Murray System.

In eighteen instances, transfers were effected following the sale of properties for which licences had been issued. In all cases, these transfers were in respect of the Torrumbarry System.

In eleven instances, owing to variations required by licensees, it was found necessary under Regulations and upon the request of individual holders to revoke licences in operation and issue new ones in their stead.

FARM WATER SUPPLIES BRANCH.

The *Farm Water Supplies Advances Act* 1944, No. 5020, which came into operation on the 1st January, 1945, is designed to give farmers an opportunity of establishing or improving existing domestic and stock water supplies on their farms.

Under the Act, advances are made by the Board of Land and Works in approved cases to farmers who cannot finance works to supply water to their farms. Applications which have been approved have included boring for underground water, construction of catchment or gully dams, diversion from streams or channels, and the installation of windmills or other pumping plant. Water supplies for the domestic requirements of the farm residence and for a house garden come within the provisions of the Act.

The amount of advance made to any farmer shall not exceed seven-eighths of the estimated cost of the work, which must be approved by the State Rivers and Water Supply Commission.

In order to carry out its part of the policy laid down under the Farm Water Supplies Act, the Commission has now set up a Farm Water Supplies Branch, which has been placed under the control of a Senior Engineer experienced in carrying out rural water supply works. In addition to dealing with applications for advances under the Act, the Branch is available to give advice to farmers on matters relating to the supply of water to their holdings even if finance is not required.

Since the coming into operation of this legislation, 60 applications have been dealt with and advice and information have been given in 300 cases. The Commission is now preparing for distribution a handbook on "Farm Water Supplies for Domestic and Stock Purposes" which will cover most aspects of the supply, storage and distribution of water for farm purposes.

UNDERGROUND WATER RESOURCES.

The comprehensive survey of the underground water resources of Victoria is proceeding, and it is expected that the first progress report will be available toward the end of the year. This report will include all easily available records of bores in the Mallee, Wimmera, and Glenelg Regions and a detailed description of the Murray Artesian Basin.

Investigations have also been made into the underground water resources of local areas such as the Orbest Flats, Llowalong Estate on the Avon River, and also at Bacchus Marsh, where four 10-inch diameter and seven smaller observation bores have been put down by contract for the Commission. Detailed reports of these surveys will be included with the more general reports.

Two experimental bores have been put down near Dimboola, from one of which irrigation is being carried out. Although the yield from this bore is only 4,500 gallons per hour, valuable data should be obtained regarding the practicability of irrigation with underground water in this district.

ENGINEERING AND RESEARCH BRANCH.

The work of this Branch is still steadily increasing. The following is a summary of the work under the various sections:—

- (1) Routine Laboratory Tests for Commission and other Authorities.
- (2) (a) Outdoor Testing of Materials.
(b) Inspection of Materials supplied by Contractors.
- (3) Chemical and Physical Examination of Materials for Works.
- (4) Water Purification and Analysis.
- (5) Soil Mechanics.

Some 9,447 tons of normal Portland Cement were tested for the Commission and other authorities and 790 specimens of concrete. Owing to the scarcity of construction material, the outdoor testing of materials was somewhat restricted, but the main items tested were 60,000 feet of asbestos cement pipes, 32,000 feet concrete pipe, and 4,000 feet steel cement lined pipe.

Inspection of materials supplied by contractors included gibault joints, pipe fittings, valve and fire plug covers, tapping saddles, steel formworks for concrete culverts, timber of different kinds, mainly hardwood and oregon.

Various samples of stone, gravel, and sand from Murray Valley, Seymour, Bendigo, and other localities was examined together with a wide variety of water samples. During the year a record number of 1,075 soil samples were received but the continuation of the work on samples from the site of the proposed enlargement of the Eildon Reservoir has formed the larger portion of the investigations of soil samples.

A number of disturbed and undisturbed soil samples were despatched to the Bureau of Reclamation, U.S.A., concurrently with the visit of two of the Commission's engineers to that country in connexion with the Eildon Reservoir investigations.

The Commission is pleased to record assistance given to two other Authorities in the initiation of Soil Testing Laboratories by giving their representatives full facilities to familiarize themselves with the methods of testing and apparatus employed in the Commission's Laboratory.

A handbook on "Methods of Testing Soils" is in course of publication.

SOIL CONSERVATION.

The Commission, on behalf of the Soil Conservation Board, carried out the construction of a Soil Conservation project at Barrakee, involving the formation of contour banks, specially prepared waterways, and other works.

LAND VALUATIONS.

VALUATIONS FOR RATING.

New valuations for rating in the districts administered from the Shepparton Centre have been completed. In view of the provisions of the *Water Act* 1939, No. 4678, which provide for rating on either basis, these include both unimproved capital values and net annual valuations of all properties. Arrangements are in hand for proceeding with rating valuations in the remainder of the Commission's rural districts.

During the year ninety-nine supplementary valuations were made comprising 536 assessments, a total net Annual Value of £35,945 and an area of 87,358 acres.

VALUATIONS FOR LAND COMPENSATION.

Ten claims for compensation for land required for works have been settled. The total amount claimed was £13,452 and settlements were effected for £10,573.

LIBRARY.

During the year the Commission's reference Library has been established as a separate unit at Head Office, and accommodation and facilities have been provided for study and research. This has enabled the library to be used by the Commission's staff to a greater extent than in previous years. There have also been a considerable number of inquiries from the general public, mainly with regard to the Commission's publications which the library now houses and distributes.

One hundred and forty periodicals of a technical character are now received from Australia and Overseas, and are circulated amongst the staff. Articles dealing with water supply and related problems are abstracted and published in the Library Bulletin. During the year, there were eleven issues of this publication which noted 403 accessions of books and reports and 587 articles of special interest.

Loans of the Commission's books and publications for the year amounted to 1,480, and 15,000 of its publications were distributed to water users and others interested in water supply.

PART IV.—RATING AND FINANCE.

VALUATIONS, RATES, IRRIGATION CHARGES, AND FLOOD PROTECTION CHARGES.

The statements which follow set forth the Districts supplied by the Commission with water for domestic and ordinary use and for watering cattle or other stock, together with the annual value of the lands and tenements, the number of assessments, and the general rates, compulsory irrigation charges, flood protection rates and charges, and drainage rates made in all Districts. An estimate of the number of persons dwelling in such Districts is also appended.

The provisions of section 62 of the *Water Act* 1928, as amended by the *Water Act* 1944, whereby lands in certain Rural Districts which could not be supplied with water were exempted from rating, were applied to all Irrigation and Water Supply Districts and Waterworks Districts.

In accordance with the before mentioned section of the *Water Act* 1928, lands in Irrigation and Water Supply Districts, Waterworks Districts, and Flood Protection and Drainage Districts were arranged in not more than four divisions, regard being given in such arrangement to the relative extent of the benefits derived by such lands from the constructed service works. The rates made and levied were in accord with the graduated scale for lands rated in divisions.

A minimum and tapering rate in the urban portion of the Coliban System and a rate on the unimproved capital value of lands within the Carrum Drainage District, with a fixed minimum amount of rate in the latter District as provided by section 5 of the *Water Act* 1928 were made as in previous years.

The Commission fixed minimum annual rates on lands arranged in the first division in twenty Waterworks Districts.

In twenty-six Irrigation and Water Supply Districts the Commission made and levied compulsory irrigation charges and in three Flood Protection Districts charges were made.

Details of all rates and charges made are set out hereunder :—

VALUATIONS, RATES, IRRIGATION CHARGES, AND FLOOD PROTECTION CHARGES.

Districts Supplied with Water for Domestic and Ordinary Use and for Watering Cattle or Other Stock.	Area of District in Acres.	Area classified as Irrigable in Acres.	Water Rights Apportioned (including Extra Rights) in Acre Feet.	Annual Value of Lands and Tenements.	Rate in the £1 made during Year ended 30th June, 1946.	Compulsory Irrigation Charge per Acre Foot of Water Right, Season 1945-46.	Number of Assessments.	Estimated Number of Persons Dwelling in District, excluding Defence Establishments.		
IRRIGATION AND WATER SUPPLY DISTRICTS.										
Supplied from Goulburn System.				Valuation by Commission.	Divisions.					
					1st.	2nd.	3rd.			
					£	s. d.	s. d.			s. d.
1. BOORT	80,861	56,722	11,339	18,395	1 0	0 6	..	7 0	277	409
2. CALVIL	61,140	32,527	6,505	16,467	1 0	..	..	7 0	190	420
3. DEAKIN	160,432	21,050	5,660	45,628	1 8	0 10	0 5	6 0	510	1,371
4. DINGEE	8,860	4,361	4,361	3,329	1 0	..	..	7 0	67	186
5. KATANDRA	13,957	11,173	7,329	8,220	1 0	..	..	7 0	123	423
6. NORTH SHEPPARTON ..	121,795	61,444	13,203	54,034	1 0	0 6	..	7 0	471	1,135
7. ROCHESTER	181,594	56,995	57,466	66,990	1 0	0 6	0 3	6 0	896	2,657
8. RODNEY	272,683	190,361	60,838	134,600	1 0	0 6	0 3	6 0	1,935	5,175
9. SHEPPARTON	24,462	21,391	21,391	35,496	1 0	..	..	6 0	626	2,390
10. SOUTH SHEPPARTON ..	33,714	17,923	4,404	15,367	1 0	..	..	6 0	128	353
11. TONGALA-STANHOPE ..	76,170	47,626	48,052	48,822	1 0	..	..	6 0	1,072	2,253
12. TRAGOWEL PLAINS ..	218,164	148,763	31,192	44,289	1 0	0 6	..	7 0	667	915
Totals	1,253,832	670,336	271,740	491,637					6,962	17,687

VALUATIONS, RATES, IRRIGATION CHARGES, AND FLOOD PROTECTION CHARGES—continued.

Districts Supplied with Water for Domestic and Ordinary Use and for Watering Cattle or Other Stock.	Area of District in Acres.	Area classified as Irrigable in Acres.	Water Rights Apportioned (including Extra Rights) in Acre Feet.	Annual Value of Lands and Tenements.	Rate in the £1 made during Year ended 30th June, 1946.			Compulsory Irrigation Charge per Acre Foot of Water Right, Season 1945-46.	Number of Assessments.	Estimated Number of Persons Dwelling in District, excluding Defence Establishments.
IRRIGATION AND WATER SUPPLY DISTRICTS—continued.										
Supplied from Yarrawonga Weir.				Valuation by Commission. £	Divisions.					
					1st.	2nd.	3rd.			
					s. d.	s. d.	s. d.	s. d.		
13. MURRAY VALLEY ..	269,312	86,248	24,223	44,818	1 0	0 6	0 3	10 0	540	1,161
Supplied from Torrumbarry System.										
14. COHUNA ..	84,960	44,486	49,111	45,819	1 9	0 10½	..	6 0	635	1,639
15. FISH POINT..	6,327	3,756	1,845	1,533	1 0	..	..	6 0	34	53
16. KERANG ..	87,174	54,925	18,949	17,917	1 9	0 10½	0 5¼	5 0	413	650
17. KOONDROOK ..	82,676	24,472	24,522	24,009	1 9	0 10½	0 5¼	6 0	444	1,039
18. MYSTIC PARK ..	20,260	7,805	2,677	3,337	1 0	..	..	6 0	84	130
19. SWAN HILL ..	37,123	22,268	25,886	30,975	1 0	..	..	6 0	650	1,930
20. THIRD LAKE ..	11,483	3,771	2,513	2,156	1 9	0 10½	..	6 0	65	65
Totals ..	330,003	161,483	125,503	125,746					2,325	5,506
Supplied from Southern State Works.										
21. MAFFRA-SALE ..	51,935	22,672	22,708	58,684	1 0	0 6	0 3	10 0	455	2,250
22. BACCHUS MARSH ..	6,655	3,331	3,331	15,003	1 0	0 6	..	22 6	256	590
23. WERRIBEE ..	10,137	8,153	8,154	21,546	1 0	0 6	..	12 0	240	1,432
Totals ..	68,727	34,156	34,193	95,233					951	4,272
Supplied direct from River Murray.										
								For each 2½ acre feet		
24. MERBEIN ..	10,355	7,693	19,233	49,532	0 6	..	..	62 6	552	2,000
25. NYAH ..	3,839	2,744	7,358	9,434	0 6	..	..	53 4	241	830
26. RED CLIFFS ..	30,961	11,271	28,177	81,640	0 6	0 3	0 1½	70 0	972	3,300
Totals ..	45,155	21,708	54,768	140,606					1,765	6,130
Supplied on a Sales of Water Basis.										
								Unit charge per acre foot for water supplied as Sales		
27. CAMPASPE ..	19,725	..	..	8,871	2 0	1 0	..	6 0	147	150
28. TRESCO ..	3,482	2,000	..	3,529	2 6	1 3	..	20 0	214	240
Totals ..	23,207	2,000	..	12,400					361	390
Totals (Irrigation)..	1,990,236	975,931	510,407	910,440					12,904	35,146

VALUATIONS, RATES, AND FLOOD PROTECTION CHARGES—continued.

Districts supplied with Water for Domestic and Ordinary use and for Watering Cattle or other Stock.	Annual Value of Lands and Tenements.	Rate in the £1 made during Year ended 30th June, 1946.			Minimum Amount of Rate per 640 Acres on Lands in the First Division.	Number of Assessments.	Estimated Number of Persons Dwelling in District, excluding Defence Establishments.
WATERWORKS DISTRICTS.							
Supplied from Wimmera-Mallee System.	Valuation by Commission. £	Divisions.			£ s. d.		
		1st. s. d.	2nd. s. d.	3rd. s. d.			
29. BIRCHIP	41,958	2 1	1 0½	0 6¼	9 12 0	663	950
30. HINDMARSH	8,542	2 4	..	0 7	10 13 4	50	228
31. KARKAROOC	128,774	1 11	0 11½	0 5¾	9 12 0	1,272	4,500
32. LONG LAKE	72,393	2 6½	1 3¼	0 7½	9 12 0	800	2,100
33. SEA LAKE	63,782	2 5	..	0 7¼	9 12 0	700	1,600
34. TYNTYNDER	48,244	3 0	1 6	0 9	9 12 0	1,006	2,000
35. TYRRELL	39,451	3 0	1 6	0 9	9 12 0	842	2,400
36. TYRRRL WEST	56,655	3 0	1 6	0 9	9 12 0	1,671	3,000
37. UPPER WESTERN WIMMERA	63,805	1 4	..	0 4	9 12 0	477	1,648
38. UPPER WIMMERA UNITED ..	106,159	1 4	..	0 4	9 12 0	700	2,220
39. WESTERN WIMMERA	278,804	1 0½	0 6¼	0 3½	..	2,706	8,440
40. WIMMERA UNITED.. ..	315,403	1 0	0 6	0 3	9 12 0	1,695	6,875
41. WYCHEPROOF	76,056	2 1	..	0 6¼	9 12 0	1,149	2,050
Totals	1,300,026					13,731	38,011
Supplied direct from River Murray.							
42. CARWARP	4,545	3 4	1 8	0 10	10 13 4	147	380
43. CARWARP CENTRAL	784	3 4	1 8	..	10 13 4	18	50
44. COREENA	5,157	3 4	1 8	0 10	10 13 4	153	200
45. MILLEWA	15,730	3 4	1 8	0 10	10 13 4	436	870
46. MILLEWA CENTRAL	10,238	3 4	1 8	0 10	10 13 4	283	440
47. YELTA	1,993	3 4	..	0 10	10 13 4	57	10
Totals	38,447					1,094	1,950
Supplied by Bores.							
48. WALPEUP WEST	47,639	0 8	0 4	..	4 16 0	1,074	1,780
Supplied from Coliban System.							
49. AXE CREEK	1,628	1 9½	..	..	..	65	250
50. HARCOURT	6,652	1 4	..	..	..	174	600
Totals	8,280					239	850
Miscellaneous.							
51. EAST LODDON	18,902	0 8	0 4	0 2	..	267	196
52. KERANG NORTH-WEST LAKES	7,400	0 5	..	..	..	180	260
53. LODDON	29,027	0 8	0 4	0 2	..	292	289
54. NORMANVILLE	25,217	1 6	0 9	0 4½	10 13 4	249	332
55. WERRIBEE	5,077	2 0	..	..	..	64	107
56. WEST LODDON	28,311	0 8	0 4	0 2	..	236	387
Totals	113,934					1,288	1,571
Totals (Waterworks) ..	1,508,326					17,426	44,162

VALUATIONS, RATES, AND FLOOD PROTECTION CHARGES—*continued.*

Districts Supplied with Water for Domestic and Ordinary Use from Pipe Reticulations.	Annual Value of Lands and Tenements.	Rate in the £1 made during Year ended 30th June, 1946.	Minimum Amount of Rate for Lands on which there is a Building.	Minimum Amount of Rate for Lands on which there is no Building.	Water Charge per 1,000 Gallons.	Number of Assessments.	Estimated Number of Persons Dwelling in District, excluding Defence Establishments.
URBAN DISTRICTS AND DIVISIONS.							
<i>Supplied from Bellarine Peninsula System.</i>							
	£	s. d.	s. d.	s. d.	s. d.	s. d.	
57. ANGLESEA	3,056	1 8	33 4	10 0	1 0	1 0	155
58. BARWON HEADS AND OCEAN GROVE	11,601	1 8	33 4	10 0	1 0	1 0	731
59. DRYSDALE	3,017	1 8	33 4	10 0	1 0	1 0	216
60. PORTARLINGTON	3,482	1 8	33 4	10 0	1 0	1 0	296
61. QUEENSCLIFF AND POINT LONSDALE	22,976	1 8	33 4	10 0	1 0	1 0	770
62. TORQUAY	5,733	1 8	33 4	10 0	1 0	1 0	339
Totals	49,868						2,508
<i>Supplied from Mornington Peninsula System.</i>							
63. BERWICK	7,631	1 5	20 0	7 6	1 0	1 0	264
64. BITTERN	590	2 1	20 0	7 6	1 0	1 0	84
65. BUNYIP	3,675	1 7	33 4	10 0	1 0	1 0	140
66. CHELSEA, FRANKSTON	188,913	1 4	20 0	7 6	1 0	1 0	6,960
67. CRANBOURNE	3,619	1 4	20 0	7 6	1 0	1 0	152
68. CRIB POINT	3,502	2 1	33 4	10 0	1 0	1 0	298
69. DANDENONG	85,572	1 3	20 0	7 6	1 0	1 0	2,021
70. DROMANA—PORTSEA	56,519	2 2	40 0	10 0	1 0	1 0	2,848
71. GARFIELD	2,590	1 7	33 4	10 0	1 0	1 0	85
72. HASTINGS	2,728	2 0	26 8	10 0	1 0	1 0	186
73. LONGWARRY	3,143	1 8	33 4	10 0	1 0	1 0	110
74. MORNINGTON	49,992	1 4	20 0	7 6	1 0	1 0	1,198
75. PAKENHAM	6,177	1 5	33 4	10 0	1 0	1 0	180
76. SOMERVILLE	2,808	1 8	20 0	7 6	1 0	1 0	87
77. SOUTH FRANKSTON	22,757	1 6	66 8	13 4	1 0	1 0	427
78. SPRING VALE	57,784	1 3	20 0	7 6	1 0	1 0	2,561
Totals	498,000						17,601
<i>Supplied from Otway System.</i>							
79. ALLANSFORD	1,051	2 0	40 0	10 0	1 0	1 0	54
80. CAMPERDOWN	31,588	2 0	40 0	10 0	1 0	1 0	952
81. COBDEN	8,841	2 0	40 0	10 0	1 0	1 0	285
82. TERANG	22,489	2 0	40 0	10 0	1 0	1 0	659
Totals	63,969						1,950
<i>Supplied from Wimmera—Mallee System.</i>							
83. ANTWERP	207	2 4	46 8	10 0	1 4	1 0	24
84. BERRIWILLOCK	1,270	2 4	15 0	..	1 0	1 0	89
85. BEULAH	3,450	2 0	15 0	..	1 0	1 0	192
86. BIRCHIP	5,651	1 4	15 0	..	1 0	1 0	321
87. BRIM	924	2 4	40 0	10 0	1 0	1 0	67
88. CHILLINGOLLAH	248	2 4	46 8	10 0	1 4	1 0	29
89. CHINKAPOOK	564	2 4	46 8	10 0	1 4	1 0	40
90. CULGOA	1,227	2 4	15 0	..	1 0	1 0	61
91. DIMBOOLA	16,310	1 4	15 0	..	1 0	1 0	606
92. DOOEN	169	1 4	26 8	5 0	1 0	1 0	6
93. HOPETOUN	6,635	2 0	15 0	..	1 0	1 0	275
94. JEPARIT	9,046	1 5	15 0	..	1 0	1 0	292
Carried forward ..	45,701						2,002
							5,007

VALUATIONS, RATES, AND FLOOD PROTECTION CHARGES—continued.

Districts Supplied with Water for Domestic and Ordinary Use from Pipe Reticulations.	Annual Value of Lands and Tenements.	Rate in the £1 made during Year ended 30th June, 1946.	Minimum Amount of Rate for Lands on which there is a Building.	Minimum Amount of Rate for Lands on which there is no Building.	Water Charge per 1,000 Gallons.	Number of Assessments.	Estimated Number of Persons Dwelling in District, excluding Defence Establishments.
URBAN DISTRICTS AND DIVISIONS—continued.							
<i>Supplied from Wimmera-Mallee System—continued.</i>	Municipal Valuation.				Rate Allowance.	Excess.	
	£	s. d.	s. d.	s. d.	s. d.	s. d.	
Brought forward ..	45,701						2,002 5,007
95. JUNG JUNG	889	2 0	20 0	7 6	1 0	1 0	44 148
96. LALBERT	780	2 4	46 8	10 0	1 0	1 0	51 120
97. LASCELLES	915	2 4	15 0	..	1 0	1 0	70 150
98. MANANGATANG	1,961	2 4	46 8	10 0	1 4	1 0	107 280
99. MARNOO	1,123	2 4	33 4	10 0	1 0	1 0	45 173
100. MINYIP	6,133	1 10	15 0	..	1 0	1 0	245 556
101. NANDALY	313	2 4	46 8	10 0	1 4	1 0	33 100
102. NATIMUK	3,181	1 4	15 0	..	1 0	1 0	148 532
103. NULLAWIL	700	2 4	46 8	10 0	1 4	1 0	45 80
104. OUYEN	9,267	2 0	15 0	..	1 4	1 0	386 960
105. PATCHEWOLLOCK	692	2 4	46 8	10 0	1 4	1 0	64 165
106. QUAMBATOOK	2,801	1 11	15 0	..	1 0	1 0	150 430
107. RAINBOW	9,000	1 4	15 0	..	1 0	1 0	290 1,004
108. RUPANYUP	5,602	1 11	15 0	..	1 0	1 0	197 495
109. SEA LAKE	7,249	1 4	15 0	..	1 0	1 0	277 640
110. SPEED	418	2 4	46 8	10 0	1 4	1 0	20 60
111. TEMPY	261	2 4	46 8	10 0	1 4	1 0	31 90
112. ULTIMA	1,927	2 0	15 0	..	1 0	1 0	143 270
113. WAITCHIE	235	2 4	46 8	10 0	1 4	1 0	35 35
114. WALPEUP	852	2 4	46 8	10 0	1 4	1 0	57 130
115. WATCHEM	1,863	2 2	15 0	..	1 0	1 0	115 220
116. WOOMELANG	1,871	2 4	15 0	..	1 0	1 0	137 280
117. WOORINEN	764	2 4	46 8	10 0	1 0	1 0	63 140
118. WYCHEPROOF	6,871	1 4	15 0	..	1 0	1 0	248 640
119. YAAPEET	299	2 4	46 8	10 0	1 4	1 0	25 70
Totals	111,668						5,028 12,775
<i>Supplied from Torrumbarry System.</i>							
120. COHUNA	10,819	1 4	15 0	..	1 0	1 0	425 1,061
121. KOONDROOK	2,794	1 10	15 0	..	1 0	1 0	224 585
122. LEITCHVILLE	1,906	2 4	26 8	10 0	1 0	1 0	111 232
123. MURRABIT	273	2 4	46 8	10 0	1 4	1 0	30 55
Totals	15,792						790 1,933
<i>Supplied direct from River Murray.</i>							
124. CARWARP	117	2 4	46 8	10 0	1 4	1 0	14 15
125. LAKE BOGA	2,253	2 0	15 0	..	1 0	1 0	169 370
126. MERBEIN	10,743	1 10	15 0	..	1 0	1 0	398 1,420
127. MERINGUR	286	2 4	46 8	10 0	1 8	1 0	25 50
128. NYAH	973	1 10	36 8	..	1 0	1 0	61 130
129. NYAH WEST	4,333	1 10	40 0	10 0	1 0	1 0	162 400
130. PIANGIL	930	2 4	40 0	10 0	1 0	1 0	81 120
131. RED CLIFFS	17,541	1 4	20 0	10 0	1 0	1 0	455 1,800
132. WERRIMULL	827	2 4	46 8	10 0	1 8	1 0	59 60
Totals	38,003						1,424 4,365
<i>Miscellaneous.</i>							
133. BACCHUS MARSH	16,976	1 4	15 0	..	1 0	1 0	568 1,707
134. COROP	156	1 8	15 0	..	1 0	1 0	20 53
135. DINGEE	354	2 4	26 8	10 0	1 0	1 0	18 42
136. HEYFIELD	3,338	1 11	33 4	10 0	1 0	1 0	143 400
137. LOCKINGTON	1,654	2 0	40 0	10 0	1 0	1 0	91 147
138. MARONG	791	2 0	26 8	10 0	1 0	1 0	53 300
139. MITIAMO	869	2 8	15 0	..	1 0	1 0	52 130
140. NEWSTEAD	3,059	2 2	40 0	10 0	1 0	1 0	150 400
Carried forward ..	27,197						1,095 3,179

VALUATIONS, RATES, AND FLOOD PROTECTION CHARGES—continued.

Districts Supplied with Water for Domestic and Ordinary Use from Pipe Reticulations.	Annual Value of Lands and Tenements.	Rate in the £1 made during Year ended 30th June, 1946.	Minimum Amount of Rate for Lands on which there is a Building.	Minimum Amount of Rate for Lands on which there is no Building.	Water Charge per 1,000 Gallons.	Number of Assessments.	Estimated Number of Persons Dwelling in District, excluding Defence Establishments.
URBAN DISTRICTS AND DIVISIONS—continued.							
Miscellaneous—continued.	Municipal Valuation.				Rate Allowance.	Excess.	
	£	s. d.	s. d.	s. d.	s. d.	s. d.	
Brought forward ..	27,197						1,095 3,179
141. PYRAMID HILL	3,536	1 6	30 0	10 0	1 0	1 0	152 450
142. STANHOPE	1,921	1 6	30 0	10 0	1 0	1 0	70 265
143. WONTHAGGI	42,870	1 4	15 0	..	1 0	1 0	1,697 5,300
Totals	75,524						3,014 9,194
COLIBAN SYSTEM.							
	Municipal Valuation.	Rate in the £1 made during year ended 30th June, 1946.	Minimum Amount of Rate for Lands on which there is a Building.				
	£	s. d.	s. d.				
144. COLIBAN	427,883	On Valuations up to £300 ..	1 4 15 0	1 0	1 0	14,159	60,850
Includes Bendigo, Castlemaine, Eaglehawk, Maldon, Barker's Creek, Campbell's Creek, Chewton, Elphinstone, Epsom, Ascot, Fryers-town, Guildford, Harcourt, Huntly, Kangaroo Flat, Myer's Flat, Raywood, Sebastian, Spring Gully, Taradale, and Yapeen. Rural properties supplied from Coliban System, involving 1,848 assessments and a population of 7,850 persons are also included.							
See under Waterworks Districts for Axe Creek and Harcourt rural supplies and under Urban Districts for Marong.							
		From £301 up to £700 ..	1 3 ..	..	..	..	..
		From £701 on ..	1 0 ..	..	..	..	..
		Vacant Lands ..	1 4 ..	..	..	..	..
Totals (Urban)	1,280,707					46,474	138,339
District.	Annual Value of Lands and Tenements,	Rate in the £1 made during Year ended 30th June, 1946.			Number of Assessments.	Estimated Number of Persons Dwelling in District, excluding Defence Establishments.	
DRAINAGE DISTRICTS.							
	Valuation by Commission.	Divisions.					
	£	1st. s. d.	2nd. s. d.	3rd. s. d.	4th. s. d.		
145. COHUNA	35,131	1 6	1 1½	0 9	0 4½	516	1,166
146. KERANG EAST	16,910	1 8	1 3	0 10	0 5	348	585
147. MAFFRA-SALE	28,917	1 2	0 10½	0 7	0 3½	248	1,240
148. MERBEIN	43,304	0 9	..	0 4½	..	387	1,800
149. MURRABIT	3,364	1 3	..	..	..	78	226
150. NYAH	7,519	0 9	..	0 4½	..	182	655
151. RED CLIFFS	71,352	0 9	..	0 4½	..	621	2,900
152. ROCHESTER	26,938	1 6	1 1½	0 9	0 4½	454	1,613
153. RODNEY	18,088	1 3	0 11¼	0 7½	0 3¾	302	675
154. SHEPPARTON	56,734	1 2	0 10½	0 7	0 3½	812	3,140
155. TONGALA-STANHOPE	51,114	1 6	1 1½	0 9	0 4½	978	2,238
156. WERRIBEE	22,255	0 8	0 6	0 4	0 2	253	1,371
157. WOORINEN	10,359	1 2	..	..	..	225	395
Totals	391,985	..	..	..	..	5,404	18,064
	Unimproved Capital Value.						
	£						
158. CARRUM	342,013	0 3	0 2¼	0 1½	0 0¾	4,600	4,450
(with a minimum amount of rate of 2s. per tenement)							
Totals (Drainage)	{ £391,985 (N.A.V.) £342,013 (U.C.V.) }					10,001	22,514

VALUATIONS, RATES, AND FLOOD PROTECTION CHARGES—*continued.*

District.	Annual Value of Lands and Tenements.	Rate in the £1 made during Year ended 30th June, 1946.				Number of Assessments.	Estimated Number of Persons dwelling in District, excluding Defence Establishments.
FLOOD PROTECTION DISTRICTS.							
		Divisions.					
	Valuation by Commission.	1st.	2nd.	3rd.	4th.		
	£	s. d.	s. d.	s. d.	s. d.		
159. LOWER KOOWEERUP ..	56,806..	2 0	1 6	1 0	0 6	976	2,500
	Area in Acres.	Charge per Acre made during Year ended 30th June, 1946.					
		s. d.	s. d.	s. d.	s. d.		
160. CARDINIA	26,621	3 2	2 4½	1 7	0 9½	268	750
161. KANYAPELLA	12,604	0 3	..	0 1½	..	41	66
162. LOCH GARRY	41,678	0 2	..	..	..	109	180
Totals (Flood Protection)	80,903 (Acres)					1,394	3,496

MISCELLANEOUS WATER CHARGES.

For Irrigation Supplies from the Commission's channels to lands outside constituted Irrigation and Water Supply Districts, the charge for water is 50 per cent. above the compulsory charge ruling in the nearest Irrigation and Water Supply District, excepting supplies to such lands as are within constituted Waterworks Districts and subject to the general Domestic and Stock rate, for which the charge is the equivalent of the irrigation charge ruling in the nearest Irrigation and Water Supply District.

For Irrigation Supplies to lands in the Western Wimmera and Wimmera United Waterworks Districts the charge for water is 12s. per acre foot with a minimum annual payment of £2 for any one holding.

For Domestic and Stock Supplies from the Commission's pipe lines to properties outside proclaimed Urban Districts the charges are in accordance with the Commission's By-law No. 3875 or by special agreement, and are as follow :—

Name of Waterworks District.	Amount of Charge per 1,000 Gallons for Water Supplied.	Minimum Charge per Annum.
	s. d.	s. d.
BELLARINE PENINSULA	1 0	50 0
MORNINGTON PENINSULA	1 0	50 0
OTWAY	1 0	50 0

FINANCE.

(W. Lambert, B.Com., D.P.A., A.F.I.A., Chief Finance Officer.)

REVENUE.

The respective amounts paid to consolidated revenue during the past three years were :—

Year.	Water Rates and Charges, Diversion, Grazing Fees, &c.	Interest on Lands Sold, Plant and Machinery Account.	Recoups, &c.	Total.
	£	£	£	£
1943-44	737,259	4,433	55,608	797,300
1944-45	714,708	2,339	73,980	791,027
1945-46	685,924	2,593	87,499	776,016
Grand Totals	2,137,891	9,365	217,087	2,364,343

The amount collected during the current year, including arrears, represented the equivalent of 132 per cent. of the year's assessment (£518,023) for rates and charges. Additional amounts collectable for sales of water, interest on arrears, &c., were £166,558. The total collectable new money for the year, therefore, was £684,581, of which the actual sum collected (£684,931) represented the equivalent of 100 per cent.

An amount of £17,061 was written off the books of the Commission for the financial year 1945-46, as compared with £22,670 for the previous year. Adjustments of water-users' accounts in arrears in rural areas, made pursuant to legislation, have involved the writing off, during recent years of the following amounts :—

	Amount of Remission to 30th June, 1946.	Number of Individual Cases Involved.
	£	
<i>Farmers' Debts Adjustment Act</i> 1935 (No. 4326)	97,658	1,546
<i>Water Act</i> 1937 (No. 4513)	126,044	1,849
<i>Water Act</i> 1940 (No. 4740)	81,674	12,000
<i>Water Act</i> 1944 (No. 5017)	3,055	(Approx.) 1,666

The amount of £81,674 written off under the provisions of the *Water Act* (No. 4740), represents the remission of interest accrued on arrears to 30th June, 1940. Arrears of the rates and charges (excluding interest remitted and excused), subject to the provisions of the *Water Act* (No. 4740) are payable by instalments over periods ranging up to twenty years from and inclusive of 1st January, 1941. The arrears so consolidated are not subject to interest conditionally upon the instalment being paid on the due date each year. The balance of consolidated arrears as at 30th June, 1946, amounted to £228,263.

The loss for the year 1945-46 on Crown lands, which have not been occupied or have been vacated by the lessees leaving no assets, amounted to £5,521.

The arrears of rates and charges were reduced from £468,866 as at 1st July, 1945, to £451,033 as at 30th June, 1946.

EXPENDITURE.

The expenditure for the year on maintenance, water distribution, and management, and the comparative figures for 1944-45 are set out hereunder :—

	1945-46.	1944-45.
	£	£
From Annual Vote Appropriation	1,070,085	814,729
From Annual Vote Appropriation (Exceptional) ..	*28,466	30,436
From Surplus Revenue, Act 4968	11,619	50,178
	<hr/> 1,110,170	<hr/> 895,343

* Includes £11,180 assistance to Sewerage Authorities; £16,133 subsidies to Sewerage Authorities; £799 subsidies to Waterworks Trusts and Local Governing Bodies; and £354 Cost of Remedial Works to compensate landholders for loss resulting from Commission Works.

The total expenditure on works carried out or supervised by the Commission for the year 1945-46 from all sources was as set out hereunder :—

	£	£
Vote Funds	1,098,551	
Special Appropriation	3,750	
Surplus Revenue, Act No. 4968	11,619	
	<hr/>	1,113,920
Ordinary Loan Funds—		
Commission Works	375,922	
Waterworks Trusts and Local Bodies	56,984	
	<hr/>	432,906
Water Supply Works Depreciation Fund		13,961
		<hr/>
Total Expenditure on construction, operation, maintenance and administration of Commission's Works and Water Supply works supervised by Commission, including subsidies to Sewerage Authorities, &c.		1,560,787

The expenditure on Capital construction works was provided from :—

	£
Water Supply Loans Application Act No. 5048	117,567
Water Supply Loans Application Act No. 5099	315,339
	<hr/> 432,906

In addition the Capital Loan Liability of the State for works of country Water Supply was increased as a result of loan conversion operations during the year, by an amount of.. 216,660

The total increase in Loan Liability for the year was therefore 649,566

The contribution by the Government of Victoria to the River Murray Commission for the maintenance of works under the River Murray Agreement was £14,150 (included in the expenditure from Annual Vote Appropriation as shown above). The actual expenditure by this Commission on the maintenance of these works was £7,840, and on construction of new works £739.

CAPITAL LIABILITY.

The Capital Loan Liability of the State for Works of Country Water Supply at 30th June, 1946, was £28,911,274, of which amount £26,345,536 is charged to the "Capital Expenditure borne by the State Account". Of the remainder, £1,351,531 is charged to Waterworks Trusts and Local Governing Bodies, £72,598 is debited to the Plant and Machinery Account, and the balance £1,141,609, represents the Capital Liability, after adjustment, debited to Districts and Divisions directly under the control of the Commission. These figures are exclusive of an equity of £2,943,993 in the National Debt Sinking Fund.

In accordance with the provisions of the *Water Act* 1943 No. 4983, section 5, interest debited direct to water-users on the cost of capital works incurred after the 30th June, 1943, is charged at the rate of 3 per cent. per annum. Interest on the Capital Liability for works of Country Water Supply, incurred prior to that date, is reckoned at the average rate of interest per centum (as determined by the Treasury)

payable by the State of Victoria on securities in respect of Water Supply Loan Liabilities as at the thirtieth day of June in the preceding financial year. The average rates per centum of interest so determined are respectively for 1944-45, £3 13s. 7d. and for 1945-46, £3 10s. 2d.

The amounts debited to Country Water Supply Works on account of interest, exchange on overseas interest and Loan Conversion expenses were :—

	£	s.	d.
Interest	1,084,099	10	1
Exchange on overseas interest	105,102	5	10
Loan Conversion expenses	12,444	5	11
	1,201,646	1	10

The amount paid by the Treasury in respect of exchange on overseas interest has not been debited direct to water-users. The following statement shows the approximate interest payment for 1945-46 in relation to the Capital Liability.

Capital Debited to—	Capital Liability as at 30th June, 1946.	Interest Liability (excluding Exchange and Loan Conversion Expenses).	Interest Paid by Water Users.
	£	£ s. d.	£ s. d.
Districts and Divisions under the direct control of the Commission	1,141,609	41,863 15 7	41,863 15 7
Waterworks Trusts and Local Governing Bodies ..	1,351,531	52,946 4 4	50,751 7 10
Plant and Machinery Account	72,598	1,800 6 7	1,800 6 7
Capital Expenditure borne by the State Account ..	26,345,536	987,489 3 7	..
	28,911,274	1,084,099 10 1	94,415 10 0

DEPRECIATION.

The amount at credit of the Water Supply Works Depreciation Account in the Commission's books at 1st July, 1945, was £290,514 18s. 9d. An amount of £48,419 14s. 7d. was raised during the financial year 1945-46 for purposes of depreciation.

In addition, a sum of £1,190 13s. 11d. was paid direct to the credit of the Fund, comprising £390 2s. 6d., being amounts contributed by landholders and other bodies as capitalized maintenance of water supply works constructed for their respective benefits, and £800 11s. 5d., from Loddon United Waterworks Trust Depreciation Account.

After crediting the Account with interest amounting to £6,857 18s. 8d. and deducting the expenditure (£13,961 4s. 8d.) from Depreciation for the year, the balance remaining in the Account as at 30th June, 1946, was £333,022 1s. 3d.

During the year a sum of £48,000 was transferred from the Commission's revenue to the credit of the Water Supply Works Depreciation Fund in the Treasury Books.

It is desirable that the Fund be built up to ensure that moneys will be available to meet large expenditure in replacements which must be effected in the near future, and that regular transfers be made to the Fund to avoid fluctuations in the Commission's net revenue each year. The amount included in rates and charges levied each year for purposes of depreciation is approximately £48,390.

Details of the Water Supply Works Depreciation Account are set out on pages 92-94 of this report.

PLANT AND MACHINERY ACCOUNT AND STORES SUSPENSE ACCOUNT.

The value of large size movable Plant and Machinery, inclusive of depot and workshops at Bendigo, held in the Plant and Machinery Account as at 30th June, 1946, was £72,597 19s. 6d.

Items of plant and machinery controlled in the Plant and Machinery Account are hired to the respective works on which they are engaged at rates sufficient to provide interest and redemption on the capital cost of the plant, a reserve fund for major overhauls and depreciation adequate to renew the plant when it has reached the end of its useful life. The operating account is in credit to the extent of £11,155,

The portion of the hire charge representing depreciation is paid direct to the credit of the Water Supply Plant and Machinery Depreciation Fund, which is kept in the Treasury. The amount at credit of this Fund, which is interest-bearing, was £61,279 19s. 11d., as at 30th June, 1946, as against a credit of £63,080 2s. in the Water Supply Plant and Machinery Account in the Commission's books. The difference represents interest credited to the account in the Commission's books and not yet paid to the Fund by the Treasury.

The value of stores and equipment held in the Stores Suspense Account as at 30th June, 1946, was £198,977 15s. 5d. The net amount charged to the account is £175,708 12s. 7d.; the difference (£23,269 2s. 10d.) represents the amount at credit of operating account in respect of excavators, &c. (£11,155); and the amount at credit of operating account in respect of motor vehicles (£12,114 2s. 10d.).

The net debit for plant and materials held by the Commission as at 30th June, 1946, is £310,811 18s. 3d., and is controlled within funds provided from the following sources :—

	£	s.	d.	£	s.	d.
Stores Suspense Account (Act 3341, sec. 8 (1) (c))	..	..	..	175,708	12	7
Water Supply Loans Application Acts—						
Rocklands Reservoir (Suspense Account)	59,648	3	1			
Glenelg River Works (Suspense Account)	1,087	15	10			
Eildon Reservoir (Suspense Account) ..	1,669	12	3			
Cairn Curran Reservoir (Suspense Account)		1	15	0		
				62,407	6	2
Plant and Machinery Account (Act 4761) ..	..	..	..	72,195	19	6
				310,311	18	3

REVENUE EXPENDITURE CHARGEABLE TO THE STATE ACCOUNT.

The Commission, by direction of the Governor in Council, has throughout 1945–46 continued the operation of 5 Irrigation Districts, 20 Waterworks Districts, 47 Urban Districts, 6 Urban Divisions, and 13 Drainage Districts, in respect of which Districts and Divisions, the works would not produce sufficient revenue to cover the expenses of maintenance and management. Section 6 of the *Water Act* 1937 (No. 4513) provides that the annual amount of the loss resulting from the maintenance and management of such works shall be transferred in the books of the Commission to the “Revenue Expenditure chargeable to the State Account”. The amount so transferred for 1945–46 was £381,871, making a total of £1,110,514 borne by the State since 1st July, 1938.

In 40 of these districts an aggregate cash surplus of revenue over expenditure of £19,347 was obtained. This amount was applied to Interest (£4,933), Redemption (£38) and Depreciation (£9,409), leaving a sum of £4,968 available to the credit of the respective districts.

The above figures are exclusive of interest due on Capital Liability incurred in respect of works under construction, which has accrued due before the first rate or charge has been made. Such interest charges are, in accordance with the provisions of the *Water Act* 4513, charged to the “Revenue Expenditure chargeable to the State Account”.

FINANCIAL STATEMENTS.

Financial statements in respect of the various Districts and Divisions controlled and supervised by the Commission are set out in the following pages.

FINANCIAL OPERATIONS, 1945–46.

A complete analysis of the Commission's financial operations during the year would involve the division of the Commission's activities into those which might be regarded as “Paying” districts or business undertakings, as “Non-paying” districts or subsidized utilities, and as “National Services” respectively.

Pursuant to the *Water Acts* 1937 (No. 4513) and 1944 (No. 5017) the Capital Liability of Country Water Supply Works has been adjusted by debiting to water users such amounts of Capital Liability in respect of which interest and redemption could be paid on the basis of existing rates and charges, after providing for operating costs, management, and depreciation. The balance of the Capital Liability, including the Capital Cost of Free Headworks and other National Works, has been transferred to the “Capital Expenditure borne by the State Account”.

As the water rates and charges in respect of those Districts and Divisions, the Capital Liability of which has been adjusted, are expected to meet the costs of management and operation in addition to depreciation and interest and redemption on the Capital as adjusted, such districts might be regarded as being within the category of a business undertaking.

“ PAYING ” DISTRICTS.

The Districts from which revenue is sufficient to meet all operating, maintenance, depreciation, interest, and redemption charges on allotted capital are :—

Irrigation and Water Supply Districts (23).

Bacchus Marsh	Dingee	Mystic Park	Swan Hill
Boort	Katandra	North Shepparton	Third Lake
Calivil	Kerang	Rochester	Tongala-Stanhope
Campaspe	Koondrook	Rodney	Tragowel Plains
Cohuna	Maffra-Sale	Shepparton	Werribee
Deakin	Murray Valley	South Shepparton	

Waterworks Districts (12).

Bellarine Peninsula	Mornington Peninsula	Werribee
East Loddon	Newstead	Western Wimmera
Harcourt	Normanville	West Loddon
Loddon	Otway	Wimmera United

Urban Divisions and Districts (35).

Allansford	Brim	Jeparit	Queenscliff and
Bacchus Marsh	Camperdown	Longwarry	Point Lonsdale
Cohuna	Chelsea-Frankston	Marnoo	Rainbow
Lockington	Cobden	Merbein	Rupanyup
Red Cliffs	Cranbourne	Minyip	Somerville
Antwerp	Culgoa	Mornington	South Frankston
Barwon Heads and	Dandenong	Natimuk	Spring Vale
Ocean Grove	Dimboola	Pakenham	Terang
Berriwillock	Dromana-Portsea	Pyramid Hill	Watchem
Berwick			

Drainage Districts (1).

Carrum

The surplus Revenue over Expenditure in respect of these Districts after providing for interest, redemption, and depreciation was £17,584.

“ NON-PAYING ” DISTRICTS.

Where the revenue from existing rates and charges is insufficient to meet operating costs, the works in such centres may be maintained by direction of Parliament or the Governor in Council, in which case the loss resulting from their maintenance and management is transferred to the “ Revenue Expenditure chargeable to the State Account”. The supply to these centres might be regarded as a “ utility service ” as against a “ business undertaking ”.

Districts which were maintained and operated by direction of the Governor in Council are listed hereunder :—

Irrigation and Water Supply Districts (5).

Fish Point	Merbein	Tresco
Nyah	*Red Cliffs	

Waterworks Districts (20).

Axe Creek	Karkarooc	Sea Lake	Upper Wimmera
Birchip	Kerang North-west	Tyntynder	United
Carwarp	Lakes	Tyrrell	Walpeup West
Carwarp Central	Long Lake	Tyrrell West	Wycheproof
Coreena	Millewa	Upper Western	Yelta
Hindmarsh	Millewa Central	Wimmera	

Urban Divisions and Districts (53).

*Corop	*Coliban	Marong	*Sea Lake
*Dingee	*Crib Point	Meringur	Speed
Heyfield	*Dooen	Mitiamo	Tempy
*Leitchville	*Drysdale	*Nandaly	Torquay
*Murrabit	*Garfield	Newstead	Ultima
*Stanhope	*Hastings	*Nullawil	Waitchie
Anglesea	*Hopetoun	*Nyah	Walpeup
*Beulah	*Jung Jung	*Nyah West	Werrimull
Birchip	Koondrook	*Ouyen	*Wonthaggi
*Bittern	*Lake Boga	*Patchewollock	*Woomelang
*Bunyip	*Lalbert	*Piangil	*Woorinen
Carwarp	Lascelles	Portarlington	Wycheproof
*Chillingollah	Manangatang	*Quambatook	Yaapeet
Chinkapook			

Drainage Districts (13).

*Cohuna	Murrabit	Rochester	Tongala-Stanhope
*Kerang East	*Nyah	*Rodney	*Werribee
*Maffra-Sale	*Red Cliffs	Shepparton	Woorinen
*Merbein			

In districts marked "*" the operations for 1945-46 resulted in an aggregate cash surplus of £19,347. Of this amount, a sum of £14,370 has been applied to depreciation account redemption and interest.

The amount debited to "The Revenue Expenditure chargeable to the State Account" in respect of Districts maintained during 1945-46 by direction of the Governor in Council, in which the Revenue was insufficient to meet operating costs, was £ 381,871

NATIONAL SERVICES.

Included in the heading of "National Services" are such items as River Gaugings and Inspections, Contribution to the River Murray Commission for the Maintenance of River Murray Works, Supervision of Waterworks Trusts and Sewerage Authorities, Administration in respect of expenditure from other funds, &c. In addition, the salaries (provided for under Special Appropriation) paid to the Commissioners of the State Rivers and Water Supply Commission, are debited to the annual cost of operating country water supply works.

The Total Cost of Services of a National Character administered by the Commission during 1945-46, and paid from the Commission's Vote Appropriation, was £ 185,457

From this amount may be deducted miscellaneous revenue collected in respect to diversion permits, rents, recoup payments, &c. £ 137,412

Net Cost to State of National Services 1945-46 (page 59) .. 48,045

No contribution is made to the Commission's revenue to offset the "utility service" and "national services" which the Commission is directed to administer but which are not completely covered by rates or charges.

NET COST TO STATE.

It is indicated on page 103 of the Auditor-General's Report for 1945-46 that the net cost to the State for the year in connexion with country water supply which has been met from general revenue was £1,511,616. This figure includes the cost of the services referred to earlier, also a sum of £10 debited to war precautions. The equivalent figure stated annually is often incorrectly quoted as a "loss" in respect of country water supply, whereas the only amount which, on the existing basis of rates and charges, might be correctly regarded as a cash "loss" is the amount of £381,871, beforementioned, being the deficiency on Districts in which the revenue was insufficient to meet expenses, the operations of which, as already intimated, were continued by direction of the Governor in Council.

A summary of the total cost (£1,511,616) to the State for the year is set out hereunder—a more detailed analysis is set out on page 59 of this Report.

	£	£	£
Total Cost to the State .. .. .	..	..	1,511,616
Loss on "Non-paying" Districts .. ..	..	381,871	
Cost of "National Services"	185,457		
Less Miscellaneous Revenue Collected ..	137,412		
		48,045	
Interest, Exchange, and Loan Conversion Expenses on Headworks, and Capital borne by State	1,107,230		
Less Interest on Lands sold, &c.	792		
		1,106,438	
		1,536,354	
Deduct amount paid to Revenue in respect of Depreciation (£48,420) and Redemption (£1,767)		50,187	
		1,486,167	
Deduct Surplus on "Paying Districts" ..	17,584		
Revenue in excess of operating costs in other ("Non-paying") Districts	4,967		
		22,551	
		1,463,616	
Add amount transferred from Revenue to Depreciation Fund		48,000	
Net Total Cost to State .. .. .	..	..	1,511,616

The net cost to the State (£1,511,616) was £279,697 greater than the comparable figure for the previous year. This is due to the high costs of operations, and particularly the unprecedented expenditure of the huge sum of £330,066 incurred in the removal of the enormous accumulations of sand-drift from the channels in the Wimmera-Mallee area consequent upon the extraordinarily severe drought conditions which prevailed until March, 1946. In addition, the restrictions on water consumption, which were imposed by reason of the low state of the storages, reduced considerably the revenue ordinarily received from water sales.

Although provision exists for the transfer from the "Capital Expenditure borne by the State Account" to the direct liability of the water-users as the respective districts develop, it will not be possible, having regard to the present basis of rates and charges and the increased operating costs, for water-users to meet the full cost of interest, redemption, and operations.

Furthermore major water supply projects in hand will involve a large expenditure of capital funds. As the cost of these works will be borne by the State, the interest charges will not be debited to water-users.

It is inevitable, therefore, notwithstanding increasing development, that the cost to the State will tend to increase in future years. The amount (£1,511,616) borne by the community for the year 1945-46 is equivalent to 15s. 4d. per head of the whole population, and represents the contributions of the individual citizen towards the indirect benefits derived from the State enterprise of Country Water Supply.

FINANCIAL STATEMENTS

RESULTS OF OPERATIONS IN DISTRICTS UNDER CONTROL OF COMMISSION. *Disbursements, 1945-46.*

	Operating Expenses.	Interest on Capital Allotted.	Depreciation Paid by Districts.	Redemption Paid by Districts.	Total Disbursements.
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
Coliban Works	43,583 16 9	10,774 8 7	7,755 0 0	..	62,113 5 4
Irrigation Districts	294,201 12 4	..	14,376 0 0	..	308,577 12 4
Irrigation Urban Divisions	5,773 8 0	553 4 11	727 0 0	13 16 2	7,067 9 1
Waterworks Districts	487,309 15 6	8,768 10 5	8,871 0 0	607 19 1	505,557 5 0
Waterworks Urban Districts	56,292 0 9	21,767 11 8	14,968 14 7	1,145 8 6	94,173 15 6
Flood Protection Districts	6,618 1 0	..	..	..	6,618 1 0
Drainage Districts	48,433 8 2	..	1,722 0 0	..	50,155 8 2
	942,212 2 6*	41,863 15 7	48,419 14 7	1,767 3 9	1,034,262 16 5
Expenditure not chargeable to Districts—					
Free Headworks	9,055 14 2†	..	..	..	9,055 14 2
Other	158,902 5 11	..	..	..	158,902 5 11
	1,110,170 2 7‡	41,863 15 7	48,419 14 7	1,767 3 9	1,202,220 16 6

Inclusive of Grant from Surplus Revenue:—* £11,252 7s. 11d.; † £366 12s. 0d.; ‡ Total, £11,618 19s. 11d.
 Exclusive of Redemption paid in respect of Plant and Machinery Account, £133 0s. 1d.

Receipts, 1945-46.

	Total Receipts.	Less Transfers to Depreciation Fund.	Total Collections Paid to Consolidated Revenue.	Excess.	
	£ s. d.	£ s. d.	£ s. d.	Receipts over Disbursements.	Disbursements over Receipts.
Coliban Works	47,475 6 8	7,678 0 0	39,797 6 8	..	14,637 18 8
Irrigation Districts	321,384 12 11	15,001 0 0	306,383 12 11	12,807 0 7	..
Irrigation Urban Divisions	6,312 0 0	..	6,312 0 0	..	755 9 1
Waterworks Districts	161,626 10 3	23,611 0 0	138,015 10 3	..	343,930 14 9
Waterworks Urban Districts	96,391 4 3	..	96,391 4 3	2,217 8 9	..
Flood Protection Districts	8,852 18 3	..	8,852 18 3	2,234 17 3	..
Drainage Districts	21,648 13 8	1,710 0 0	19,938 13 8	..	28,506 14 6
	663,691 6 0	48,000 0 0	615,691 6 0	17,259 6 7	387,830 17 0
Recoups of amounts paid from Revenue ..	87,498 19 9	..	87,498 19 9	..	..
Free Headworks	5,769 13 1	..	5,769 13 1	..	..
Miscellaneous	16,463 1 0	..	16,463 1 0	..	..
	773,422 19 10	48,000 0 0	725,422 19 10	17,259 6 7	387,830 17 0

SUMMARY OF OPERATIONS FOR YEAR 1945-46.

£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
REVENUE 1945-46—		EXPENDITURE 1945-46—		
From Districts and other activities under the control of the Commission ..	685,924 0 1	From Annual Vote—Commission Districts ..	930,959 14 7	
Recoups of amounts paid from Revenue ..	87,498 19 9	Services of a National Character and Free Headworks ..	167,591 8 1	
	773,422 19 10	Special Appropriation ..	..	1,098,551 2 8
Less transfer to Water Supply Works Depreciation Fund ..	48,000 0 0			3,750 0 0
	725,422 19 10	Surplus Revenue Act No. 4968—		1,102,301 2 8
Grants from Revenue—		Commission Districts ..	11,252 7 11	
Surplus Revenue Act No. 4968 To Assist Sewerage Authorities ..	11,618 19 11	Free Headworks ..	366 12 0	
	27,313 10 9			11,618 19 11
	38,932 10 8			
Balance carried down ..	..		
	349,564 12 1			
	1,113,920 2 7			1,113,920 2 7
Interest paid—		Balance brought down ..		
By Waterworks Trusts and Local Governing Bodies ..	50,751 7 10	Amount debited by Treasury for Pensions and Gratuities ..	..	349,564 12 1
On Shepparton Drainage ..	10 10 5	National Security (Emergency Powers) Act (No. 4645) ..	..	13,739 0 5
„ Sale of Land ..	781 15 3			10 0 0
	51,543 13 6			
Plant and Machinery Account ..	1,800 6 7			
Balance carried down ..	..		
	309,969 12 5			363,313 12 6
	363,313 12 6			
Balance being amount borne by the State		Balance brought down ..		
	1,511,615 14 3	Interest on Total Loan Liability ..	1,084,099 10 1	309,969 12 5
		Exchange on Interest Payments ..	105,102 5 10	
		Loan Conversion Expenses ..	12,444 5 11	
				1,201,646 1 10
	1,511,615 14 3			1,511,615 14 3

ANALYSIS OF EXPENDITURE BORNE BY THE STATE, 1945-46.

Services of a National Character—		£	s.	d.	£	s.	d.
Maintenance and Management of Free Headworks					9,055	14	2
Maintenance River Murray Commission Works—Contribution by State of Victoria in accordance with the provisions of the River Murray Acts					14,150	0	0
Assistance to Sewerage Authorities where works have been suspended to meet Commonwealth requirements		11,180	0	0			
Subsidies to Sewerage Authorities where interest paid on Capital Liability is in excess of the rate of 3 per cent		16,133	10	9			
Subsidies to Waterworks Trusts and Local Governing Bodies to enable a reduction of 33½ per cent. to be made in Water Rates		798	11	3			
					28,112	2	0
Soil Conservation Project—Wychitella					400	0	0
Farm Water Supplies Advances (Act No. 5020, 1944) Administration					1,416	19	7
Administration in respect of expenditure from other funds and works carried out for other Authorities (including Salaries, Pay Roll Tax &c.)					87,145	3	1
Rivers and Reclamation Division, River Gaugings, Diversions, Land Leasing, Surveys and Reports, Investigations							
Underground Water Investigations and Designs Branch					9,634	5	7
Investigations Missions to U.S.A. and New Zealand by Commission Engineers					3,019	19	8
Salaries in connexion with purchase of Plant and Machinery for large developmental projects					1,689	15	2
Irrigation Branch					3,273	18	4
Waterworks Trusts and Sewerage Authorities					2,630	8	4
Maintenance of Suspended Works (Rocklands Reservoir and Toolondo Main Channel) and Mallee Tanks					853	11	9
Special Appropriation					3,750	0	0
Travelling—Minister and Commissioners		1,863	7	3			
Salaries and Pay Roll Tax Minister's Staff; Commissioners' Cost of Living and Pay Roll Tax		1,577	18	3			
					3,441	5	6
Transfer of Officers from Treasury Buildings to Centenary Hall, 100-110 Exhibition-street, Melbourne					1,772	1	6
Miscellaneous Services, Concessions to Soldiers, Free Water for Research, Free Places, Military Leave, &c.					1,362	15	5
Total (From Annual Vote, £167,591 8s. 1d.; Special Appropriation, £3,750; Surplus Revenue £366 12s.)					171,708	0	1
Amount debited by Treasury for Pensions and Gratuities					13,739	0	5
National Security (Emergency Powers) Act No. 4645					10	0	0
					185,457	0	6
Less Revenue received from Free Headworks £5,769 13s. 1d.; Diversion Permits, &c., £16,463 1s.; Oncost on Expenditure from other funds and Recoups, £87,498 19s. 9d.; Grants by State in respect of Subsidies and Assistance to Sewerage Authorities, £27,313 10s. 9d.; and from Surplus Revenue £366 12s.					137,411	16	7
					48,045	3	11
Interest on Capital Expenditure on Free Headworks and other Capital Expenditure borne by the State		987,489	3	7			
Arrears of Interest owing by Waterworks Trusts		2,194	16	6			
Exchange on Overseas Interest Payments		105,102	5	10			
Loan Conversion Expenses		12,444	5	11			
		1,107,230	11	10			
Less Interest on Lands Sold, &c.		792	5	8			
					1,106,430	6	2
					1,154,483	10	1
Commission Districts—							
Districts the Capital Liabilities of which have been adjusted under Acts Nos. 4513 and 5017—							
Surplus of Revenue over Operating Costs after allowing for Depreciation, £16,677 and Redemption, £1,729 10s. 6d.		48,009	4	7			
Less Current Interest—							
Paid		27,900	7	1			
Forward Unpaid		2,525	1	3			
		30,425	8	4			
					17,583	16	3
Districts supplied by direction of Governor in Council, but which show excess Revenue over Operating Costs after allowing for Depreciation £9,409 8s. 9d.; and Redemption £37 13s. 3d.—							
Surplus		9,900	7	4			
Less Current Interest paid		4,932	14	1			
		4,967	13	3			
Total Surplus		22,551	9	6			
Deduct Excess Expenditure in Districts supplied by direction of Governor in Council and showing excess Expenditure over Revenue inclusive of Interest, £6,505 13s. 2d.; and Depreciation, £22,333 5s. 10d.		381,870	12	0			
Net Deficit		359,319	2	6			
Add amount transferred to Water Supply Works Depreciation Fund in Treasury on account of moneys paid to Revenue and Interest credited to Depreciation Account		48,000	0	0			
		407,319	2	6			
Deduct amounts paid to Revenue in respect of Depreciation, £48,419 14s. 7d.; and Redemption, £1,767 3s. 9d.		50,186	18	4			
		357,132	4	2			
Net Expenditure borne by the State					1,511,615	14	3

CAPITAL EXPENDITURE 1945-46.

Expenditure during the year on Capital Works of Water Supply—	£	s.	d.
Ordinary Loan Funds (Details, pages 96-97)	432,905	12	8

LOAN CAPITAL LIABILITY.

Net Loan Liability of State for Works of Country Water Supply at 30th June, 1946	£	s.	d.	£	s.	d.
Represented by—						
Works at Debit of Authorities—						
Commission Districts	1,141,609	2	8			
Water Supply Plant and Machinery Account	72,597	19	6			
Waterworks Trusts and Local Governing Bodies	1,351,530	11	8			
	2,565,737	13	10			
Capital Expenditure Borne by the State—						
Free Headworks	1,237,648	17	4			
Capital Works and Charges not apportionable to Districts	1,625,428	2	1			
Headworks and Distributory Works	21,619,401	10	2			
Waterworks Trusts and Local Governing Bodies	1,720,701	14	1			
Free Grants to Local Authorities in early years	142,356	4	11			
	26,345,536	8	7			
Net Loan Capital Liability of Commission's Districts, Divisions and Works under Control of the Commission	28,911,274	2	5			
Less Amount from National Debt Sinking Fund, being the difference between redemption recoup contributions paid by Districts, Waterworks Trusts, &c. (£421,332 6s. 10d.) and the amount (£2,943,992 15s. 7d.) contributed from Consolidated Revenue to the National Debt Sinking Fund (page 105)	2,522,660	8	9			
Net Liability Country Water Supply Capital Account in Treasury	26,388,613	13	8			

INTEREST AND EXCHANGE.

The Total Interest due on the Loan Liability for 1945-46 is	£	s.	d.	£	s.	d.
To which is to be added—						
Exchange payable on Overseas Interest	105,102	5	10			
Loan Conversion Expenses	12,444	5	11			
	1,201,646	1	10			
Interest Debitable to—						
Works at Debit of Authorities—						
Commission Districts	41,863	15	7			
Trusts	52,946	4	4			
Water Supply Plant and Machinery Account	1,800	6	7			
	96,610	6	6			
Capital Expenditure Borne by the State—						
Free Headworks	46,389	16	7			
Capital Works and Charges not apportionable to Districts	60,924	13	0			
Headworks and Distributory Works not debited to Districts	810,343	3	0			
Waterworks Trusts and Local Governing Bodies	64,495	14	7			
Free Grants to Local Authorities in early years	5,335	16	5			
	987,489	3	7			
Exchange, £105,102 5s. 10d., and Loan Conversion Expenses £12,444 5s. 11d., not apportioned	1,084,099	10	1			
	1,177,546	11	9			
	1,201,646	1	10			

RECEIPTS AND DISBURSEMENTS.

STATEMENT of Moneys Received and Disbursed during the Year Ended 30th June, 1946.

Works.	Receipts.			Disbursements (Exclusive of Interest, Redemption and Depreciation Charges).		
	Total.	Paid to Depreciation Fund.	Paid to Consolidated Revenue.	From Annual Vote and (a) Special Appropriation.	From Surplus Revenue Act No. 4968.	Total.
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
Commission's Districts—						
Coliban Works	47,475 6 8	7,678 0 0	39,797 6 8	43,147 1 6	436 15 3	43,583 16 9
Irrigation Districts	321,384 12 11	15,001 0 0	306,383 12 11	290,965 7 5	3,236 4 11	294,201 12 4
Irrigation Urban Divisions	6,312 0 0	.. ..	6,312 0 0	5,614 13 10	158 14 2	5,773 8 0
Waterworks Districts	161,626 10 3	23,611 0 0	138,015 10 3	484,859 9 10	2,450 5 8	487,309 15 6
Waterworks Urban Districts	96,391 4 3	.. ..	96,391 4 3	53,551 10 3	2,740 10 6	56,292 0 9
Flood Protection Districts	8,852 18 3	.. ..	8,852 18 3	6,618 1 0	.. ..	6,618 1 0
Drainage Districts	21,648 13 8	1,710 0 0	19,938 13 8	46,203 10 9	2,229 17 5	48,433 8 2
Total—Commission's Districts	663,691 6 0	48,000 0 0	615,691 6 0	930,959 14 7	11,252 7 11	942,212 2 6
Other works and services (not directly apportionable to Districts)—						
Free Headworks—						
Broken River Works .. ..	.. ..	.. ..	.. ..	9 18 2	366 12 0	376 10 2
Goulburn River Works	1,032 5 11	.. ..	1,032 5 11	4,628 1 2	.. ..	4,628 1 2
Kerang North-West Lakes Works	998 17 0	.. ..	998 17 0	533 12 6	.. ..	533 12 6
Kow Swamp Works	3,244 7 2	.. ..	3,244 7 2	2,566 4 7	.. ..	2,566 4 7
Lake Lonsdale Reservoir	219 4 3	.. ..	219 4 3	123 18 2	.. ..	123 18 2
Loddon River Works	274 18 9	.. ..	274 18 9	575 18 4	.. ..	575 18 4
Long Lake Pumping Works .. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..
Lower Wimmera Compensation Works .. ..	.. ..	.. ..	.. ..	251 9 3	.. ..	251 9 3
Total—Free Headworks	5,769 13 1	.. ..	5,769 13 1	8,689 2 2	366 12 0	9,055 14 2
River Murray Commission—						
State Contribution towards Maintenance River Murray Works .. ..	.. ..	.. ..	.. ..	14,150 0 0	.. ..	14,150 0 0
Special Appropriation—Act No. 3801, Sections 19 and 20 .. ..	.. ..	.. ..	.. ..	(a)3,750 0 0	.. ..	3,750 0 0
Administration in respect of expenditure from other funds and defence works (including Salaries, Pay Roll Tax, &c.)	87,498 19 9	.. ..	87,498 19 9	87,145 3 1	.. ..	87,145 3 1
Exceptional—Assistance to Sewerage Authorities, Trusts, &c. .. ..	.. ..	.. ..	.. ..	28,112 2 0	.. ..	28,112 2 0
Miscellaneous Expenditure and Services (as itemized hereunder) .. ..	.. ..	.. ..	.. ..	29,495 0 10	.. ..	29,495 0 10
Miscellaneous Collections—						
Diversion Permits, Rents, &c.	16,463 1 0	.. ..	16,463 1 0	.. ..	.. ..	.. ..
Total	103,962 0 9	.. ..	103,962 0 9	(a)3,750 0 0 158,902 5 11	.. ..	162,652 5 11
Total—Other Works and Services	109,731 13 10	.. ..	109,731 13 10	(a)3,750 0 0 167,591 8 1	366 12 0	171,708 0 1
Grand Totals	773,422 19 10	48,000 0 0	725,422 19 10	1,102,301 2 8	11,618 19 11	1,113,920 2 7

	£ s. d.	£ s. d.	£ s. d.
Total Disbursements from Votes, Special Appropriation, and Surplus Revenue .. ..	.. ..	.. ..	1,113,920 2 7
Net Receipts paid to Consolidated Revenue .. ..	.. ..	725,422 19 10	
Grants from Revenue—			
Surplus Revenue	11,618 19 11		
To Assist Sewerage Authorities	27,313 10 9		
	38,932 10 8		764,355 10 6
Deficiency from Commission's Operations .. ..	.. ..	.. ..	349,564 12 1
Less Surplus from other debits and credits .. ..	.. ..	.. ..	39,594 19 8
Deficiency chargeable to State exclusive of Interest, Exchange, and Loan Conversion Expenses (page 58) .. ..	.. ..	.. ..	309,969 12 5

The expenditure on services of a National Character not directly chargeable to water users included Maintenance and Management of Free Headworks £9,955 14s. 2d.; River Murray Commission Works £14,150; Special Appropriation Act No. 3801, £3,750; Administration in respect of expenditure from other funds and defence works (including Salaries, Pay Roll Tax, &c.), £87,145 3s. 1d.; Assistance to Sewerage Authorities, £11,180; Subsidies to Sewerage Authorities, £16,133 10s. 9d.; and Waterworks Trusts, £798 11s. 3d.; Irrigation Branch, £3,273 18s. 4d.; Farm Water Supplies Branch, £1,416 19s. 7d.; Waterworks Trusts and Sewerage Authorities £2,630 8s. 5d.; Salaries in connexion with purchase of Plant and Machinery, £1,689 15s. 2d.; Rivers and Reclamation Division, Surveys and Reports, Land Leasing, River Gaugings, River Works, £9,634 5s. 7d.; Soil Conservation Project, Wychitella, £400; Investigations Missions to U.S.A. and New Zealand by Commission Engineers, £3,019 19s. 8d.; Maintenance of Suspended Works—Rocklands Reservoir and Toolondo Main Channel, £707 9s. 10d.; Mallee Tanks, £146 1s. 11d.; Travelling, Minister and Commissioners, £1,863 7s. 3d.; Salaries and Pay Roll Tax, Minister's Staff and Commissioners' Cost of Living £1,577 18s. 3d.; Transfer of offices to Centenary Hall, 100 Exhibition-street, Melbourne, £1,772 1s. 6d.; Miscellaneous services—Concessions to Soldiers, Free Water for Research, &c., £1,362 15s. 5d.; Total .. 171,708 0 1

Additional Expenditure not included in above statement—Amount debited by Treasury for Pensions and Gratuities .. 13,739 0 5

National Security (Emergency Powers) Act No. 4645 10 0 0

185,457 0 6

Against the foregoing expenditure there may be set off Revenue received from Free Headworks, £5,769 13s. 1d.; Diversion Permits, Rents, &c., £16,463 1s.; Oncost on Expenditure from other funds, and Recoups, £87,498 19s. 9d.; Grants by State in respect of Subsidies and Assistance to Sewerage Authorities, £27,313 10s. 9d.; and from Surplus Revenue Act No. 4968, £366 12s. Total .. 137,411 16 7

Net cost to the State for Services of a National Character 48,045 3 11

COLIBAN SYSTEM.

CASH ACCOUNT.

STATEMENT of Moneys received and disbursed from 1st July, 1905, to 30th June, 1946; also of Interest charged at the rates of 3·679 per cent. on Capital Debts as at June, 1943, and 3 per cent. on Capital Debts subsequent to 30th June, 1943, and of Depreciation and Redemption charged for Financial Year 1945-46.

District.	Receipts.			Expenditure.							Accumulated—			
	Receipts year ended 30th June, 1946.	Total 1905 to 30th June, 1946.	Year ended 30th June, 1946.							Excess Receipts over Expenditure, 1945-46.	Excess Expenditure over Receipts, 1945-46.	Surplus Credited to District Account at 30th June, 1946.	Deficiency Chargeable to District Account at 30th June, 1946.	Deficiency Chargeable to State Account at 30th June, 1946 (inclusive of Column 11).
			Operating Costs.	Interest.	Depreciation.	Redemption.	Total.	Total 1905 to 30th June, 1946.						
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	
1. Harcourt ..	£ s. d. 1,320 14 11	£ s. d. 46,571 11 1	£ s. d. 1,763 8 4	£ s. d. ..	£ s. d. 25 0 0	£ s. d. ..	£ s. d. 1,788 8 4	£ s. d. 48,105 13 5	£ s. d. ..	£ s. d. 458 13 5	£ s. d. ..	£ s. d. 1,534 2 4	£ s. d. ..	
Totals ..	1,320 14 11	46,571 11 1	1,763 8 4	..	25 0 0	..	1,788 8 4	48,105 13 5	..	458 13 5	..	1,534 2 4	..	

The Districts set out hereunder are those whose works will not produce sufficient revenue to cover the expense of the maintenance and management thereof, and where water supplies are being continued by direction of the Governor in Council. The annual amount of loss resulting from the maintenance and management of these districts has been transferred to the "Revenue Expenditure Chargeable to the State Account". (By authority of Orders in Council, dated 8th November, 1943, and 18th December, 1944, and 26th February, 1946, respectively, under the provisions of Section 6, *Water Act* 1937, No. 4513.)

2. Axe Creek ..	238 10 10	10,651 10 6	340 14 0	..	..	..	340 14 0	11,037 8 10	..	102 3 2	..	983 8 1	302 10 3
3. Coliban ..	45,781 7 9	1,688,839 2 0	41,313 14 11	10,773 12 5	7,691 0 0	..	59,778 7 4	2,556,442 13 4	..	13,996 19 7	..	13,729 8 9	853,874 2 7
4. Maroug ..	125 13 2	2,889 13 0	165 19 6	0 16 2	39 0 0	..	205 15 8	3,180 4 4	..	80 2 6	..	210 8 10	80 2 6
Totals ..	46,145 11 9	1,702,380 5 6	41,820 8 5	10,774 8 7	7,730 0 0	..	60,324 17 0	2,571,560 6 6	..	14,179 5 3	..	14,923 5 8	854,256 15 4
Grand Totals ..	47,475 6 8	1,748,051 16 7	43,583 16 9	10,774 8 7	7,755 0 0	..	62,113 5 4	2,619,665 19 11	..	14,637 18 8	..	16,457 8 0	854,256 15 4

The Districts set out hereunder are those whose works will not produce sufficient revenue to cover the expense of the maintenance and management thereof, and where water supplies are being continued by direction of the Governor in Council. The annual amount of loss resulting from the maintenance and management of these districts has been transferred to the "Revenue Expenditure Chargeable to the State Account". (By authority of Orders in Council, dated 8th November, 1943, and 18th December, 1944, and 26th February, 1946, respectively, under the provisions of Section 6, *Water Act* 1937, No. 4513.)

COLIBAN SYSTEM.

PROFIT AND LOSS ACCOUNT FOR FINANCIAL YEAR 1945-46.

STATEMENT of Revenue Assessment (inclusive of Rate, Water Sales, Interest, and Miscellaneous) and Expenditure, Interest, Depreciation, and Redemption charged and Amounts Written Off.

District.	Expenditure.										Profit and Loss.					
	Revenue Assessment.	Operating Costs.	Interest.	Depreciation.	Redemption.	Amounts Written Off.	Total.	Excess Expenditure over Assessment.	Revenue Due for Previous Years Written Off.	Adjustments to Revenue for Years prior to 1946-46. (A) Loss. (B) Gain.	Interest and Other Losses Prior to 30th June, 1938 Borne by State*.	Loss since 30th June, 1938.	Gain as at 30th June, 1946.			
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.			
1. Harcourt ..	1,289 13 9	1,763 8 4	..	25 0 0	..	..	1,788 8 4	498 14 7	..	..	..	1,484 9 4	..
Totals ..	1,289 13 9	1,763 8 4	..	25 0 0	..	..	1,788 8 4	498 14 7	..	..	..	1,484 9 4	..

The Districts set out hereunder are those whose works will not produce sufficient revenue to cover the expense of maintenance and management thereof, and where water supplies are being continued by direction of the Governor in Council. The annual amount of loss resulting from the maintenance and management of these districts has been transferred to the "Revenue Expenditure Chargeable to the State Account". (By authority of Orders in Council, dated 8th November, 1943, 18th December, 1944, and 20th February, 1946, respectively, under the provisions of Section 6, *Water Act 1937*, No. 4513.)

2. Axe Creek ..	207 7 10	340 14 0	..	..	..	..	340 14 0	133 6 2	..	..	..	1,275 19 3	..
3. Coliban ..	45,106 18 9	41,313 14 11	10,773 12 5	7,691 0 0	732 9 9	2 5 1	60,513 2 2	15,406 3 5	154 19 4	(A) 1 0 1	828,373 18 10	50,230 0 9	..
4. Marong ..	113 12 0	165 19 6	0 16 2	39 0 0	0 1 10	..	205 17 6	92 5 6	..	..	..	228 7 1	..
Totals ..	45,427 18 7	41,820 8 5	10,774 8 7	7,730 0 0	732 11 7	2 5 1	61,039 13 8	15,631 15 1	154 19 4	(A) 1 0 1	828,373 18 10	51,734 7 1	..
Grand Totals ..	46,717 12 4	43,583 16 9	10,774 8 7	7,755 0 0	732 11 7	2 5 1	62,848 2 0	16,130 9 8	154 19 4	(A) 1 0 1	828,373 18 10	53,218 16 5	..

The Districts set out hereunder are those whose works will not produce sufficient revenue to cover the expenses of maintenance and management thereof, and where water supplies are being continued by direction of the Governor in Council. The annual amount of loss resulting from the maintenance and management of these districts has been transferred to the Revenue Expenditure Chargeable to the State Account. (By authority of Orders in Council, dated 8th November, 1943, 18th December, 1944, and 26th February, 1946, respectively, under the provisions of Section 6, *Water Act 1937*, No. 4513.)

IRRIGATION AND WATER SUPPLY DISTRICTS.

CASH ACCOUNT.

STATEMENT of Moneys received and disbursed from 1st May, 1906, to 30th June, 1946; also of Interest charged at the rates of 3·679 per cent. on Capital Debts as at 30th June, 1943, and 3 per cent. on Capital Debts subsequent to 30th June, 1943, and of Redemption and Depreciation charged for Financial Year 1945-46 (Free Headworks excluded).

District.	Receipts.			Expenditure.						Excess Receipts over Expenditure, 1945-46.	Excess Expenditure over Receipts, 1945-46.	Accumulated.			
	Receipts, Year ended, 30th June, 1946.	Total 1906 to 30th June, 1946.	3.	Year ended 30th June, 1946.			Total.	Total 1906 to 30th June, 1946.	9.			10.	11.	12.	13.
				Operating Costs.	Contribution to Drainage Districts.	Depreciation..									
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.			
£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.			
1. Bacchus Marsh ..	3,242 17 7	174,248 3 5	3,784 19 1	..	18 0 0	3,802 19 1	206,450 6 4	..	560 1 6	..	11,031 14 8	21,170 8 3			
2. Boort ..	5,733 8 10	156,404 19 8	10,548 17 6	..	27 0 0	10,575 17 6	167,454 10 0	..	4,842 8 8	..	9,428 15 1	1,620 15 3			
3. Callvill ..	4,050 15 5	59,605 4 10	3,485 1 2	..	13 0 0	3,498 1 2	72,170 2 2	552 14 3	..	7,370 11 10	..	19,935 9 2			
4. Campaspe ..	767 12 1	30,028 9 0	603 6 10	..	..	603 6 10	32,355 0 1	164 5 3	..	1,368 15 9	..	3,695 6 10	
5. Cohuna ..	25,279 17 9	625,201 13 0	15,578 5 2	3,683 0 0	..	19,261 5 2	615,609 13 1	6,018 12 7	..	24,213 3 1	..	14,621 3 2			
6. Deakin ..	5,442 12 5	173,784 16 11	3,296 10 10	..	..	3,296 10 10	167,977 7 1	2,146 1 7	..	7,984 14 6	..	2,177 4 8	
7. Dungee ..	2,176 19 2	59,509 3 3	1,729 13 8	..	10 0 0	1,739 13 8	62,561 14 1	437 5 6	..	1,714 0 7	..	4,766 11 5			
8. Katandra ..	4,286 2 4	43,426 16 4	2,466 5 7	641 0 0	12 0 0	3,119 5 7	63,228 2 0	1,166 16 9	..	3,008 8 3	..	27,809 13 11			
9. Kerang ..	9,470 15 4	253,270 5 5	8,613 19 6	1,184 0 0	..	9,797 19 6	249,508 5 0	..	327 4 2	7,341 9 2	..	3,579 8 9			
10. Koondrook ..	12,376 4 1	331,296 1 5	10,555 18 6	..	..	10,555 18 6	686,286 0 7	1,820 5 7	..	..	2,768 7 1	52,221 12 1
11. Maffra-Sale ..	16,652 2 4	253,339 9 5	17,079 5 8	2,839 0 0	130 0 0	20,048 5 8	243,671 11 7	..	3,396 3 4	13,380 19 3	..	3,713 1 5			
12. Murray Valley ..	16,008 5 10	61,487 1 11	11,805 1 6	..	..	11,805 1 6	53,755 7 10	4,203 4 4	..	7,731 14 1	..	..	
13. Mystic Park ..	1,120 18 11	26,300 1 3	3,166 12 4	..	..	3,166 12 4	34,025 16 5	..	2,045 13 5	..	5,612 18 6	2,112 16 8	
14. North Shepparton ..	8,411 15 11	98,189 10 9	5,540 18 0	..	26 0 0	5,566 18 0	136,667 8 2	2,844 17 11	..	4,105 1 10	..	42,582 19 3			
15. Rochester ..	26,592 6 1	635,322 3 11	18,104 4 9	4,310 0 0	117 0 0	22,531 4 9	58,707 2 0	4,061 1 4	..	10,599 1 8	..	33,983 19 9			
16. Rodney ..	29,704 14 0	979,427 12 11	29,919 13 9	913 0 0	128 0 0	30,960 13 9	1,059,772 5 10	..	1,255 19 9	5,489 18 5	..	85,834 11 4			
17. Shepparton ..	8,931 8 9	249,139 8 10	8,643 11 0	1,604 0 0	47 0 0	10,294 11 0	315,396 12 2	..	1,363 2 3	..	5,521 14 4	60,735 9 0			
18. South Shepparton ..	2,391 18 10	50,990 8 10	2,386 3 6	..	10 0 0	2,396 3 6	354,162 10 4	..	4 4 8	..	436 4 9	2,735 16 9			
19. Swan Hill ..	11,626 3 9	305,931 10 7	14,669 10 2	..	340 0 0	15,009 10 2	318,821 16 2	..	3,883 6 5	..	6,653 15 1	6,236 10 6			
20. Third Lake ..	1,226 15 8	21,125 9 10	915 1 11	..	..	915 1 11	24,351 8 9	311 13 9	..	..	786 16 9	2,439 2 2
21. Tongala-Stanhope ..	20,411 15 5	436,488 1 6	13,522 10 11	3,604 0 0	106 0 0	17,232 10 11	509,086 17 7	3,179 4 6	..	582 1 5	..	73,180 17 6			
22. Tragowel Plains ..	16,941 0 6	404,911 1 5	17,945 15 0	..	69 0 0	18,014 15 0	514,092 12 7	..	1,073 14 6	..	6,409 3 6	42,772 7 8			
23. Werribee ..	3,896 0 3	190,472 13 9	4,442 10 2	259 0 0	82 0 0	4,783 10 2	221,827 10 2	..	887 9 11	..	15,923 2 5	15,431 14 0			
Totals ..	236,742 11 3	5,679,900 8 2	208,803 16 6	19,037 0 0	1,135 0 0	228,975 16 6	6,172,940 0 0	26,906 3 4	19,139 8 7	94,889 19 10	64,572 12 2	523,356 19 6			

IRRIGATION AND WATER SUPPLY DISTRICTS—continued.

CASH ACCOUNT—continued.

STATEMENT of Moneys received and disbursed from 1st May, 1906, to 30th June, 1946; also of Interest charged at the rates of 3·679 per cent. on Capital Debts as at 30th June, 1943, and 3 per cent. on Capital Debts subsequent to 30th June, 1943, and of Redemption and Depreciation charged for Financial Year 1945-46 (Free Headworks excluded)—continued.

District.	Receipts.		Expenditure.						Excess Receipts over Expenditure 1945-46.	Excess Expenditure over Receipts 1945-46.	ACCUMULATED.		
	Receipts year ended 30th June, 1946.	Total to 30th June, 1946.	Year ended 30th June, 1946.			Total.	Total 1906 to 30th June, 1946.	Surplus credited to District Account at 30th June, 1946.			Deficiency chargeable to District Account at 30th June, 1946.	Deficiency chargeable to State Account, 30th June, 1946 (Inclusive of column 10.)	
			Operating Costs.	Contribution to Drainage Districts.	Depreciation.								
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	
The Districts set out hereunder are those whose works will not produce sufficient revenue to cover the expense of the maintenance and management thereof, and where water supplies are being continued by direction of the Governor in Council. The annual amount of loss resulting from the maintenance and management of these districts has been transferred to the "Revenue Expenditure Chargeable to the State Account." (By authority of Orders in Council, dated 30th July, 1936, and 16th November, 1942, respectively, under the provisions of Section 6, <i>Water Act</i> 1937, No. 4513.)													
24. Fish Point ..	758 16 6	15,763 18 7	970 13 11	..	..	970 13 11	20,067 0 7	..	211 17 5	..	654 5 10	3,648 16 2
25. Merbeln ..	26,787 13 0	744,375 1 1	30,970 14 9	..	3,223 0 0	34,193 14 9	824,988 7 11	..	7,406 1 9	..	18,888 18 10	61,724 8 0	
26. Nyah ..	9,312 7 7	233,789 2 11	9,497 7 10	..	672 0 0	10,169 7 10	280,250 4 8	..	857 0 3	..	11,264 15 0	35,196 6 9	
27. Red Cliffs ..	45,443 1 3	870,844 8 2	38,102 0 1	..	8,929 0 0	47,031 0 1	921,504 10 11	..	1,587 18 10	..	27,894 4 8	23,265 18 1	
28. Tresco ..	2,340 3 4	51,975 19 0	5,856 19 8	..	417 0 0	6,273 19 3	135,932 1 3	..	3,933 15 11	..	46 8 9	83,909 13 6	
Totals ..	84,042 1 8	1,916,248 9 9	85,397 15 10	..	13,241 0 0	98,638 15 10	2,182,742 5 4	..	13,996 14 2	..	58,748 13 1	207,745 2 6	
Grand Totals ..	321,384 12 11	7,596,148 17 11	294,201 12 4	19,037 0 0	14,376 0 0	327,614 12 4	8,355,682 5 4	26,906 3 4	33,136 2 9	94,889 19 10	123,321 5 3	731,102 2 0	

The Districts set out hereunder are those whose works will not produce sufficient revenue to cover the expense of the maintenance and management thereof, and where water supplies are being continued by direction of the Governor in Council. The annual amount of loss resulting from the maintenance and management of these districts has been transferred to the "Revenue Expenditure Chargeable to the State Account." (By authority of Orders in Council, dated 30th July, 1936, and 16th November, 1942, respectively, under the provisions of Section 6, *Water Act 1937*, No. 4513.)

URBAN DIVISIONS.

CASH ACCOUNT.

STATEMENT of Moneys received and disbursed from 1st May, 1906, to 30th June, 1946; also of Interest charged at the rates of 3-679 per cent. on Capital Debts as at 30th June, 1943, and 3 per cent. on Capital Debts subsequent to 30th June, 1943, and of Redemption and Depreciation Charged for Financial Year 1945-46.

Division.	Receipts.			Expenditure.						Accumulated.				
	Receipts. year ended 30th June, 1946.	Total 1906 to 30th June, 1946.		Year ended 30th June, 1946.						Excess Receipts over Expenditure 1945-46.	Surplus Credited to District Account at 30th June, 1946.	Deficiency Chargeable to District Account at 30th June, 1946.	Deficiency Chargeable to State Account at 30th June, 1946. (Inclusive of Column 11.)	
		£	s.	d.	£	s.	d.	£	s.					d.
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	
1. Bacchus Marsh	£ 1,822 12 8	£ 56,673 9 4	£ 1,856 2 10	£ 372 13 5	£ ..	£ 126 0 0	£ 2,354 16 3	£ 56,408 1 7	£ ..	£ 532 3 7	£ 1,194 2 7	£ ..	£ 928 14 10	
2. Cohuna	998 7 11	29,781 4 5	760 11 0	117 16 1	8 7 8	99 0 0	985 14 9	28,298 13 7	12 13 2	..	1,482 10 10	..	..
3. Lockington	227 5 10	6,372 12 0	116 9 11	4 9 1	0 15 4	61 0 0	182 14 4	5,775 0 0	44 11 6	..	597 12 0	..	..
4. Red Cliffs	2,241 11 2	41,885 9 4	1,844 4 0	58 6 4	4 13 2	193 0 0	2,100 3 6	38,295 6 9	141 7 8	..	3,500 2 7	..	..
Totals	5,289 17 7	134,712 15 1	4,577 7 9	553 4 11	13 16 2	479 0 0	5,023 8 10	128,777 1 11	108 12 4	532 3 7	6,864 8 0	..	928 14 10	

The Divisions set out hereunder are those whose works will not produce sufficient revenue to cover the expense of the maintenance and management thereof, and where water supplies are being continued by direction of the Governor in Council. The annual amount of loss resulting from the maintenance and management of these divisions has been transferred to the "Revenue Expenditure Chargeable to the State Account". (By authority of Orders in Council dated 30th July, 1938, and 18th December, 1944, respectively, under the provisions of Section 6, *Water Act* 1937, No. 4513.)

5. Corop	22 11 1	985 18 0	13 4 11	..	..	6 0 0	19 4 11	1,018 7 2	3 6 2	..	..	..	32 9 2
6. Dungee	48 6 10	1,772 17 1	182 9 11	..	..	14 0 0	196 9 11	2,199 1 5	..	148 3 1	..	167 2 10	259 1 6
7. Heyfield	410 16 9	7,991 8 7	556 16 5	..	..	115 0 0	671 16 5	8,680 19 8	..	260 19 8	..	..	689 11 1
8. Leitchville	293 6 9	8,078 7 10	233 5 8	..	..	45 0 0	278 5 8	7,552 16 1	15 1 1	..	525 11 9	..	..
9. Murrabit	75 13 4	1,141 7 0	66 5 1	..	..	33 0 0	99 5 1	1,760 15 7	..	23 11 9	..	30 16 2	588 12 5
10. Stanhope	171 7 8	5,328 19 11	143 18 3	..	..	35 0 0	178 18 3	4,327 16 11	..	7 10 7	1,001 3 0	..	..
Totals	1,022 2 5	25,298 18 5	1,196 0 3	..	..	248 0 0	1,444 0 3	25,539 16 10	18 7 3	440 5 1	1,526 14 9	197 19 0	1,569 14 2
Grand Totals	6,312 0 0	160,011 13 6	5,773 8 0	553 4 11	13 16 2	727 0 0	7,067 9 1	154,316 18 9	216 19 7	972 8 8	8,391 2 9	197 19 0	2,498 9 0

The Divisions set out hereunder are those whose works will not produce sufficient revenue to cover the expense of the maintenance and management thereof, and where water supplies are being continued by direction of the Governor in Council. The annual amount of loss resulting from the maintenance and management of these divisions has been transferred to the "Revenue Expenditure Chargeable to the State Account". (By authority of Orders in Council dated 30th July, 1938, and 18th December, 1944, respectively, under the provisions of Section 6, *Water Act 1937*, No. 4513.)

URBAN DIVISIONS.

PROFIT AND LOSS ACCOUNT FOR FINANCIAL YEAR 1945-46.

STATEMENT of Revenue Assessment (inclusive of Rate, Water Sales, Interest, Meter Rent, and Miscellaneous), and Expenditure (inclusive of Debits for Rural Water) Interest, Depreciation, and Redemption charged, and Amounts Written Off.

Division.	Revenue Assessment.	Expenditure.					Profit and Loss.					Gain as at 30th June, 1946.
		Operating Costs.	Interest.	Depreciation.	Redemption.	Amounts Written Off.	Total.	Excess— (Cr.) Assessment (Dr.) Expenditure for Year.	Revenue Due for Previous Years Written Off.	Adjustments to Revenue for Years Prior to 1945-46. (A) Loss; (B) Gain.	Interest and Other Losses Prior to 30th June, 1938, Borne by State.	Loss since 30th June, 1938.
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
1. Bacchus Marsh ..	1,946 2 9	1,856 2 10	372 13 5	126 0 0	25 16 9	..	2,380 13 0	(Dr.) 434 10 3	..	..	928 14 10	1,376 9 0
2. Cohuna ..	1,061 13 6	760 11 0	117 16 1	99 0 0	8 7 8	..	985 14 9	(Cr.) 75 18 9	..	(B) 6 19 0	..	1,712 16 0
3. Lockington ..	206 1 11	116 9 11	4 9 1	61 0 0	0 7 10	..	182 6 10	(Cr.) 23 15 1	0 1 0	..	..	687 11 3
4. Red Cliffs ..	2,007 0 4	1,844 4 0	58 6 4	193 0 0	4 13 2	115 0 0	2,215 3 6	(Dr.) 208 3 2	27 3 11	..	..	4,167 17 8
Totals ..	5,220 18 6	4,577 7 9	553 4 11	479 0 0	39 5 5	115 0 0	5,763 18 1	(Cr.) 99 13 10 (Dr.) 642 13 5	27 4 11	(B) 6 19 0	928 14 10	7,944 13 11
<p>The Divisions set out hereunder are those whose works will not produce sufficient revenue to cover the expense of maintenance and management thereof, and where water supplies are being continued by direction of the Governor in Council. The annual amount of loss resulting from the maintenance and management of these divisions has been transferred to the "Revenue Expenditure Chargeable to the State Account". (By authority of Orders in Council dated 30th July, 1938, and 18th December, 1944, respectively, under the provisions of Section 6, <i>Water Act</i>, 1937, No. 4513.)</p>												
5. Corop ..	16 0 2	13 4 11	..	6 0 0	..	..	19 4 11	(Dr.) 3 4 9	..	..	62 8 1	39 8 7
6. Dingee ..	57 8 9	182 9 11	..	14 0 0	..	..	196 9 11	(Dr.) 139 1 2	0 1 2	..	93 10 6	259 6 2
7. Heyfield ..	392 17 0	556 16 5	..	115 0 0	..	10 12 6	682 8 11	(Dr.) 289 11 11	..	..	160 19 2	478 6 7
8. Leitchville ..	310 0 5	233 5 8	..	45 0 0	..	0 3 3	278 8 11	(Cr.) 31 11 6	13 6 3	(B) 0 14 0	..	621 11 4
9. Murrabit ..	53 11 9	66 5 1	..	33 0 0	..	..	99 5 1	(Dr.) 45 13 4	..	..	92 1 10	693 5 6
10. Stanhope ..	179 18 10	143 18 3	..	35 0 0	..	..	178 18 3	(Cr.) 1 0 7	..	..	..	1,023 15 0
Totals ..	1,009 16 11	1,196 0 3	..	248 0 0	..	10 15 9	1,454 16 0	(Cr.) 32 12 1 (Dr.) 477 11 2	13 7 5	(B) 0 14 0	408 19 7	1,430 18 3
Grand Totals ..	6,230 15 5	5,773 8 0	553 4 11	727 0 0	39 5 5	125 15 9	7,218 14 1	(Cr.) 132 5 11 (Dr.) 1120 4 7	40 12 4	(B) 7 13 0	1,337 14 5	9,029 8 10

WATERWORKS DISTRICTS.

CASH ACCOUNT:

STATEMENT of Moneys received and disbursed from 1st May, 1906, to 30th June, 1946; also of Interest charged at the rates of 3·679 per cent. on Capital Debts, as at 30th June, 1943, and 3 per cent. on Capital Debts subsequent to 30th June, 1943, and of Redemption and Depreciation charged for Financial Year 1945-46. (Free Headworks excluded.)

District.	Receipts.			Expenditure.										Accumulated—																						
	Year ended 30th June, 1946.		Total 1905 to 30th June, 1946.	Year ended 30th June, 1946.										Excess Receipts over Expenditure 1945-46.	Excess Expenditure over Receipts 1945-46.	Surplus Credited to District Account at 30th June, 1946.	Deficiency Chargeable to District Account at 30th June, 1946.	Deficiency Chargeable to State Account at 30th June, 1946. (Inclusive of Column 11.)																		
				Total.																																
				Operating Costs.	Interest.	Redemption.	Depreciation.	Total.	£	s.	d.	£	s.						d.	£	s.	d.	£	s.	d.											
1.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.												
1. Bellarine Peninsula	11,547	16	3	92,164	4	8	5,097	16	9	3,069	4	10	212	13	4	8,379	14	11	90,562	0	7	3,168	1	4	11,529	13	9	104	18	3	9,927	9	8			
2. East Loddon	701	8	4	635	18	9	1,990	4	1	..	..	..	..	..	..	1,900	4	7	806	6	7	..	..	..	..	..	..	..	..	..	..	..
3. Loddon	635	18	9	635	18	9	1,990	4	1	..	..	..	..	..	..	1,900	4	7	806	6	7	..	..	..	..	..	..	..	..	..	..	..
4. Morniduron Peninsula	14,221	16	3	127,947	5	0	2,027	2	0	2,358	8	1	163	15	0	4,735	5	1	99,943	5	8	9,516	1	2	29,081	14	8	1,304	5	4	1,077	12	3			
5. Newcastle	1,411	7	10	13,337	18	5	5,395	1	8	..	..	..	..	..	..	5,395	1	8	19,800	2	6	29	0	0	..	..	..	..	..	..	..	..
6. Normansville	10,683	18	2	55,333	18	5	2,406	6	0	..	..	..	..	..	..	7,902	14	3	59,829	6	9	2,181	3	11	..	..	..	..	..	..	..	..
7. Otway	10,683	18	2	55,333	18	5	2,406	6	0	3,340	17	6	231	10	9	7,902	14	3	59,829	6	9	..	..	..	..	..	..	..	..	..	..	..	..
8. Werribee	16,342	18	7	498,078	10	11	22,446	17	8	..	..	..	..	..	..	23,041	13	8	18,179	1	4	..	..	..	..	..	..	..	..	..	..	..	..
9. Western Wimmera	7,786	10	11	24,313	11	0	24,313	11	0	..	..	..	..	..	..	23,554	17	8	534	911	7	..	..	..	..	..	..	..	..	..	..	..	..
10. West Loddon	18,291	16	0	542,731	15	3	24,313	11	0	..	..	..	..	..	..	24,846	11	0	556,446	7	11	..	..	..	..	..	..	..	..	..	..	..	..
11. Wimmera United	74,583	18	8	1,348,976	16	1	67,949	2	5	8,768	10	5	607	19	1	80,063	11	11	1,384,924	10	6	14,894	6	5	20,373	19	8	41,812	7	8	51,105	4	3	26,654	17	10
Totals	74,583	18	8	1,348,976	16	1	67,949	2	5	8,768	10	5	607	19	1	80,063	11	11	1,384,924	10	6	14,894	6	5	20,373	19	8	41,812	7	8	51,105	4	3	26,654	17	10
The Districts set out hereunder are those whose works will not produce sufficient revenue to cover the expense of the maintenance and management thereof, and where water supplies are being continued by direction of the Governor in Council. The annual amount of loss resulting from the maintenance and management of these districts has been transferred to the "Revenue Expenditure Chargeable to the State Account." (By authority of Orders in Council, dated 30th July, 1938, and 21st October, 1941, respectively, under the provisions of section 6, <i>Water Act</i> 1937, No. 4513.)																																				
12. Birchip	3,876	19	6	143,751	6	7	13,173	6	1	..	..	..	..	..	..	13,173	6	1	185,552	3	7	..	..	..	..	..	..	..	..	..	..	..	..	..
13. Carwarp	745	8	2	25,838	11	9	9,975	4	9	..	..	..	..	..	..	10,215	4	9	107,959	12	0	..	..	..	..	..	..	..	..	..	..	..	..	..
14. Carwarp Central	151	10	2	9,489	1	5	1,262	3	7	..	..	..	..	..	..	1,282	3	7	7,858	17	7	..	..	..	..	..	..	..	..	..	..	..	..	..
15. Coorena	1,107	5	3	9,929	6	3	4,767	9	6	..	..	..	..	..	..	5,502	9	6	64,223	4	10	..	..	..	..	..	..	..	..	..	..	..	..	..
16. Hindmarsh	1,037	10	11	21,518	3	10	1,379	12	4	..	..	..	..	..	..	1,518	12	4	21,748	10	10	..	..	..	..	..	..	..	..	..	..	..	..	..
17. Karkaroc	12,836	16	1	380,459	15	0	40,996	4	0	..	..	..	..	..	..	40,996	4	0	496,393	5	3	..	..	..	..	..	..	..	..	..	..	..	..	..
18. Kerang - North-West Lakes	155	2	5	5,514	10	8	199	18	1	..	..	..	..	..	..	6,946	14	7	6,946	14	7	..	..	..	..	..	..	..	..	..	..	..	..	..
19. Long Lake	8,742	16	5	276,643	9	6	43,717	18	6	..	..	..	..	..	..	43,892	18	6	384,926	11	9	..	..	..	..	..	..	..	..	..	..	..	..	..
20. Milawa	2,111	8	3	53,488	0	2	30,811	13	6	..	..	..	..	..	..	33,769	13	6	285,810	18	4	..	..	..	..	..	..	..	..	..	..	..	..	..
21. Milawa Central	1,922	16	10	29,093	14	11	17,412	5	7	..	..	..	..	..	..	18,636	5	7	175,834	18	6	..	..	..	..	..	..	..	..	..	..	..	..	..
22. Sea Lake	8,672	3	4	261,912	16	3	25,221	12	8	..	..	..	..	..	..	25,221	12	8	262,841	12	3	..	..	..	..	..	..	..	..	..	..	..	..	..
23. Tyntynder	8,657	17	10	182,876	12	1	43,874	2	9	..	..	..	..	..	..	43,695	2	9	421,856	7	6	..	..	..	..	..	..	..	..	..	..	..	..	..
24. Tyrell	6,847	5	10	238,741	1	1	41,761	15	8	..	..	..	..	..	..	41,804	15	8	437,841	6	11	..	..	..	..	..	..	..	..	..	..	..	..	..
25. Tyrell West	10,543	17	7	124,215	14	4	90,024	18	6	..	..	..	..	..	..	90,252	18	6	509,349	4	2	..	..	..	..	..	..	..	..	..	..	..	..	..
26. Upper Western Wimmera	4,512	9	2	136,974	1	11	9,017	19	6	..	..	..	..	..	..	9,017	19	6	135,280	19	2	..	..	..	..	..	..	..	..	..	..	..	..	..
27. Upper Wimmera	6,431	8	0	221,584	15	5	16,026	13	5	..	..	..	..	..	..	16,026	13	5	238,658	4	3	..	..	..	..	..	..	..	..	..	..	..	..	..
28. Waipup West	1,608	7	8	49,592	1	10	1,804	10	11	..	..	..	..	..	..	2,064	10	11	62,214	0	5	..	..	..	..	..	..	..	..	..	..	..	..	..
29. Wychoproof	6,583	3	11	230,757	7	8	24,048	6	5	..	..	..	..	..	..	24,048	6	5	294,102	9	0	..	..	..	..	..	..	..	..	..	..	..	..	..
30. Yelta	498	3	11	11,292	11	3	4,084	17	4	..	..	..	..	..	..	4,084	17	4	22,425	10	2	..	..	..	..	..	..	..	..	..	..	..	..	..
Totals	87,042	11	7	2,407,872	1	11	419,360	13	1	..	..	..	..	..	..	425,493	13	1	4,183,824	11	1	..	..	..	..	..	..	..	..	..	..	..	..	..
Grand Totals	161,626	10	3	3,756,648	18	0	487,309	15	6	8,768	10	5	607	19	1	505,557	5	0	5,568,749	1	7	14,894	6	5	43,505	10	5	215,976	19	3	1,639,628	14	9	..		

WATERWORKS DISTRICTS.

PROFIT AND LOSS ACCOUNT FOR FINANCIAL YEAR 1945-46,
STATEMENT of Revenue Assessment (inclusive of Rate, Water Sales, Interest, Miscellaneous and Credits for Urban Water) and Expenditure (inclusive of Debts for Rural Water), Interest, Depreciation and Redemption charged and Amounts Written Off.

District.	Revenue Assessment.				Expenditure.				Profit and Loss.				
	Revenue Assessment.	Operating Costs.	Interest.	Depreciation.	Redemption.	Amounts Written Off.	Total.	Excess— (Dr.) Assessment; (Cr.) Expenditure for Year.	Revenue Due for Previous Years Written Off.	Adjustments to Revenue prior to 1945-46. (A) Loss, (B) Gain.	Interest and Other Losses prior to 30th June, 1938 Borne by State.	Loss since 30th June, 1938.	Gain as at 30th June, 1946.
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
1. Bellarine Peninsula ..	11,500 15 4	5,097 16 9	3,069 4 10	..	212 13 4	..	8,379 14 11	(Cr.) 3,121 0 5	..	..	9,927 9 8	..	11,690 13 11
2. East Loddon ..	746 1 3	704 8 8	..	..	..	..	704 8 8	(Cr.) 41 12 7	..	..	..	..	116 11 10
3. Loddon ..	581 12 0	1,874 13 11	..	..	..	..	1,874 13 11	(Cr.) 1,293 3 3	0 3 4	..	..	1,211 19 5	29,883 11 5
4. Mornington Peninsula ..	10,259 19 5	2,027 2 0	2,358 8 1	186 0 0	163 15 0	30 0 0	4,765 5 1	(Cr.) 5,494 4 4	18 8 2	..	1,077 12 3	..	118 15 0
5. Newcastle ..	29 0 0	..	..	..	..	..	..	(Cr.) 29 0 0	..	..	..	..	..
6. Normanville ..	2,102 13 5	5,395 1 8	..	..	..	..	5,395 1 8	(Cr.) 3,292 8 3	6 9 6	(A) 1,097 4 6	..	2,366 3 4	..
7. Otway ..	10,298 5 2	2,406 6 0	3,340 17 6	1,924 0 0	231 10 9	..	7,902 14 3	(Cr.) 2,365 10 11	..	..	..	4,109 13 8	..
8. Werribee ..	512 19 0	611 13 8	..	..	..	..	611 13 8	(Cr.) 98 14 8	..	..	2,221 10 10	..	1,218 13 10
9. Western Wimmera ..	16,139 1 11	22,446 3 0	..	595 0 0	..	0 14 7	23,041 17 7	(Dr.) 6,902 15 8	133 11 3	(B) 1,097 4 6	13,428 5 1	20,098 4 3	..
10. West Loddon ..	947 9 0	2,245 9 9	..	..	..	..	2,245 9 9	(Dr.) 1,298 0 9	165 18 0	{(A) 1 0 0}	..	124 17 11	..
11. Wimmera United ..	19,088 11 3	24,813 11 0	..	33 0 0	..	4 8 0	24,850 19 0	(Dr.) 5,762 7 9	..	{(B) 17 1 9}	..	3,875 16 0	..
Totals ..	72,175 17 9	67,622 6 5	8,768 10 5	2,738 0 0	607 19 1	35 3 11	79,771 19 10	{(Cr.) 11,051 8 3}	324 10 3	{(A) 1,098 4 6}	26,654 17 10	31,786 14 7	43,028 6 0
<p>The Districts set out hereunder are those whose works will not produce sufficient revenue to cover the expense of the maintenance and management thereof, and where water supplies are being continued by Council. The annual amount of loss resulting from the maintenance and management of these districts has been transferred to the "Revenue Expenditure Chargeable to the State Account." (By authority of Council, 30th July, 1938, and 21st October, 1941, respectively under the provisions of Section 6, <i>Water Act 1937</i>, No. 4513.)</p>													
12. Birchip ..	4,701 8 1	13,173 6 1	..	..	..	3 9 11	13,176 16 0	(Dr.) 8,475 7 11	34 14 5	(B) 0 0 7	24,760 19 9	11,963 19 1	..
13. Carwarp ..	1,181 13 7	9,973 5 9	..	240 0 0	..	0 8 6	10,213 13 2	(Dr.) 9,023 19 8	..	..	53,946 18 10	27,053 6 1	..
14. Carwarp Central ..	282 8 2	1,262 3 7	..	..	..	..	1,262 3 7	(Dr.) 1,079 15 8	..	..	1,426 5 0	2,404 9 11	..
15. Coreena ..	1,445 14 4	4,767 9 6	..	795 0 0	..	0 5 0	5,562 14 6	(Dr.) 4,117 0 2	75 11 4	{(A) 0 10 0}	25,451 16 6	25,329 15 1	..
16. Hindmarsh ..	1,080 10 4	1,379 12 4	..	139 0 0	..	..	1,518 12 4	(Dr.) 488 2 0	34 16 5	..	41,954 17 1	63,186 15 4	909 4 5
17. Karkaroo ..	13,021 14 2	40,906 4 0	..	..	..	66 14 11	41,082 18 11	(Dr.) 28,043 4 9	572 11 0	..	831 10 5	383 13 5	..
18. Kerang ..	162 9 7	199 18 1	..	..	..	5 13 4	265 11 5	(Dr.) 43 1 10	48 11 11	..	..	..	..
19. Long Lake ..	10,793 1 8	43,717 18 6	..	175 0 0	..	..	43,892 18 6	(Dr.) 33,099 16 10	807 10 0	..	22,303 5 10	57,954 6 10	..
20. Milawa ..	4,861 16 6	30,811 13 6	..	2,988 0 0	..	132 0 5	33,981 13 11	(Dr.) 29,069 17 5	1,344 16 0	..	92,290 6 7	140,296 7 7	..
21. Milawa Central ..	3,295 13 1	17,412 15 7	..	1,224 0 0	..	70 5 5	18,708 11 0	(Dr.) 15,410 17 11	439 13 2	..	50,278 6 8	91,760 11 0	..
22. Sea Lake ..	8,620 17 10	25,221 12 8	..	..	..	7 18 11	25,229 11 7	(Dr.) 16,608 13 9	148 2 0	..	29,623 2 3	21,684 9 11	..
23. Tynnynder ..	10,703 7 0	43,674 2 9	..	21 0 0	..	51 8 11	43,746 11 8	(Dr.) 33,043 4 8	2,162 8 2	(B) 24 14 6	105,792 16 6	91,433 7 11	..
24. Tyrell ..	7,607 4 11	41,761 15 8	..	43 0 0	..	14 5 7	41,819 1 3	(Dr.) 34,211 16 4	415 13 0	{(A) 10 6 2}	57,330 5 10	117,186 5 4	..
25. Tyrell West ..	11,724 5 6	90,024 18 6	..	228 0 0	..	70 8 2	90,323 6 8	(Dr.) 78,599 1 2	639 3 11	{(A) 1 8 2}	97,425 14 3	252,154 2 3	..
26. Upper Western Wimmera ..	4,464 8 2	9,017 19 6	..	..	..	..	9,017 19 6	(Dr.) 4,553 11 4	84 16 0	{(B) 50 11 0}	..	..	3,762 13 4
27. Upper Wimmera United ..	7,222 18 5	16,026 13 5	..	..	..	2 16 4	16,029 9 9	(Dr.) 8,806 11 4	332 15 10	{(A) 1 3 6}	8,197 6 11	11,016 17 3	1,609 17 4
28. Walpeup West ..	2,042 8 7	1,804 10 11	..	260 0 0	..	51 4 7	2,115 15 6	(Dr.) 73 6 11	..	{(B) 6 8 10}	..	..	..
29. Wycheproof ..	8,444 6 1	24,048 6 5	..	..	..	8 6 4	24,056 12 9	(Dr.) 15,612 6 8	179 13 5	..	36,844 19 0	14,931 18 3	..
30. Yelta ..	522 18 1	4,084 17 4	..	..	..	..	4,084 17 4	(Dr.) 3,561 19 3	9 12 8	..	3,864 18 11	6,299 9 10	..
Totals ..	102,059 4 1	419,360 13 1	..	6,133 0 0	..	485 6 4	425,978 19 5	(Dr.) 323,919 15 4	7,407 8 0	{(A) 13 7 10}	651,033 10 4	934,469 15 1	6,281 15 1
Grand Totals ..	174,235 1 10	486,982 19 6	8,768 10 5	8,871 0 0	607 19 1	520 10 3	505,750 19 3	{(Cr.) 11,051 8 3}	7,731 18 3	{(B) 142 19 0}	677,688 8 2	966,256 9 8	49,310 1 1
								{(Dr.) 342,567 5 8}		{(A) 1,111 12 4}			
										{(B) 1,257 5 3}			

The Districts set out hereunder are those whose works will not produce sufficient revenue to cover the expense of the maintenance and management thereof, and where water supplies are being continued by direction of the Governor in Council. The annual amount of loss resulting from the maintenance and management of these districts has been transferred to the "Revenue Expenditure Chargeable to the State Account." (By authority of Orders in Council, dated 30th July, 1938, 9th December, 1940, 23rd October, 1945, and 24th April, 1946, respectively, under the provisions of Section 6, Water Act, 1937, No. 4513.)

	408 19 0	4,898 4 11	542 8 3	0 17 7	..	56 0 0	509 5 10	6,875 5 1	.. 0 2	190 6 10	794 0 10	..	..	1,777 0 2
32. Anglesea ..	463 11 7	18,382 7 1	382 9 10	0 1 7	..	23 0 0	405 11 5	17,588 6 3	58 0 2	383 5 4	..	564 5 4	..	1,607 5 1
33. Beulah ..	637 6 1	34,220 8 0	936 11 5	..	..	84 0 0	1,020 11 5	36,891 18 5	..	..	59 18 11	..	..	..
34. Birech ..	141 1 3	3,347 3 7	181 13 11	0 14 9	0 1 3	34 0 0	131 10 10	3,287 4 8	9 10 10	..	620 0 9	..	..	..
35. Bithern ..	368 2 1	6,390 14 7	27 19 2	..	..	144 0 0	336 9 11	5,770 13 10	41 12 2	..	..	..	..	..
36. Bunyip ..	183 10 0	2,335 5 5	27 19 2	..	..	16 0 0	33 19 2	1,215 18 0	20 9 2	..	..	..	..	..
37. Carwar ..	183 10 0	2,772 17 8	217 16 2	..	..	19 14 7	101 10 9	3,721 4 6	80 10 1	..	..	..	..	..
38. Chillingolli ..	183 10 0	3,965 0 11	217 16 2	..	..	129 0 0	225 4 8	3,722 15 8	..	..	..	..	..	..
39. Chinapook ..	472 19 0	3,580 13 1	284 12 6	..	..	129 0 0	499 14 8	8,853 6 9	..	..	..	..	..	..
40. Crib Point ..	499 7 5	5,387 13 3	508 18 5	..	..	11 0 0	20 8 10	6,27 10 4	9 17 11	..	..	..	..	..
41. Doon ..	282 12 4	7,504 2 3	153 15 1	0 14 1	0 1 2	83 0 0	584 11 4	5,333 12 10	..	..	..	..	..	..
42. Drysdale ..	327 15 0	7,504 2 3	600 18 8	0 14 1	0 1 3	111 0 0	265 12 4	4,998 8 5	17 0 0	..	..	..	..	..
43. Hastings ..	317 16 3	27,528 14 10	600 18 8	0 14 1	0 1 3	161 0 0	451 0 11	7,895 7 0	..	..	..	..	..	..
44. Hopetoun ..	112 18 2	13,267 3 5	589 11 6	0 1 0	..	61 0 0	732 15 6	26,519 8 2	165 1 11	..	..	..	..	..
45. Irong Jung ..	309 14 2	13,507 12 4	558 11 8	2 17 4	..	45 0 0	134 15 6	5,057 14 8	..	..	..	..	..	..
46. Koolahook ..	777 17 12	12,641 14 2	707 16 0	4 15 11	..	64 0 0	622 11 3	16,332 12 1	..	..	..	..	..	..
47. Lark Boga ..	230 14 3	1,054 10 1	580 2 10	0 11 6	..	32 0 0	626 18 4	8,496 18 9	..	..	..	..	..	..
48. Lark Boga ..	127 19 0	5,175 3 0	130 4 1	0 11 6	..	31 0 0	151 14 4	5,980 18 10	..	..	..	..	..	..
49. Lark Boga ..	349 10 10	11,954 1 0	404 3 1	0 2 7	..	33 0 0	498 13 7	11,648 7 5	..	..	..	..	..	..
50. Lascelles ..	101 9 3	2,134 5 11	126 12 7	0 2 7	..	33 0 0	1,166 9 10	2,456 1 6	..	..	..	..	..	..
51. Maringatang ..	229 9 3	2,290 9 3	1,127 9 10	0 2 0	..	37 0 0	1,166 9 10	1,166 9 10	..	..	..	..	..	..
52. Maringat ..	446 9 2	6,599 14 9	745 4 10	0 2 0	..	51 0 0	1,111 7 10	7,323 9 2	..	..	..	..	..	..
53. Mitid ..	217 15 10	4,293 16 3	84 19 1	10 6 7	..	10 0 0	105 5 9	3,174 4 6	..	..	..	..	..	..
54. Nandaly ..	194 5 8	15,513 9 8	517 15 3	..	..	31 0 0	189 18 6	3,174 4 6	..	..	..	..	..	..
55. Nwab ..	676 7 4	51,855 0 5	1,760 11 5	1 17 0	0 4 7	116 0 0	532 13 3	14,072 0 9	..	..	..	..	..	..
56. Nwab ..	184 4 11	3,738 14 6	178 1 8	0 1 0	..	17 0 0	105 2 9	3,158 3 2	..	..	..	..	..	..
57. Nwab ..	199 12 8	9,015 10 7	182 5 9	2 6 3	..	52 0 0	234 5 9	9,178 12 11	..	..	..	..	..	..
58. Nwab ..	520 5 6	6,612 2 6	960 18 4	0 2 0	..	195 0 0	1,187 4 7	9,592 6 3	..	..	..	..	..	..
59. Nwab ..	312 2 6	6,972 9 9	290 9 9	0 2 0	..	43 0 0	333 11 9	6,581 0 6	..	..	..	..	..	..
60. Patcheswolk ..	571 19 11	29,509 8 11	541 2 9	56 17 2	13 12 11	75 0 0	686 12 10	28,311 16 1	..	..	..	..	..	..
61. Patcheswolk ..	98 13 10	2,877 15 11	111 7 1	0 0 6	..	19 0 0	130 7 7	3,156 6 9	..	..	..	..	..	..
62. Portlinton ..	706 5 5	9,364 5 0	1,140 2 6	4 3 8	..	17 0 0	154 3 10	3,095 6 7	..	..	..	..	..	..
63. Quamabook ..	316 13 7	13,135 17 10	431 5 1	0 10 5	..	97 0 0	1,241 6 2	11,096 12 11	..	..	..	..	..	..
64. Sea Lake ..	30 8 4	1,616 16 8	88 19 10	..	..	36 0 0	108 19 10	3,056 3 1	..	..	..	..	..	..
65. Speed ..	116 19 7	2,165 1 9	184 15 10	0 14 7	..	18 0 0	198 10 5	2,245 14 6	..	..	..	..	..	..
66. Torquay ..	197 7 6	5,562 2 8	274 11 9	0 1 0	..	13 0 0	316 12 9	6,210 5 7	..	..	..	..	..	..
67. Torquay ..	4,153 4 2	147,936 2 0	2,356 5 7	337 13 6	23 12 1	42 0 0	3,131 11 2	143,000 1 4	..	..	..	..	..	..
68. Ullima ..	168 15 9	3,102 15 10	163 19 1	0 9 5	..	65 0 0	409 12 4	21,681 0 1	..	..	..	..	..	..
69. Wairu ..	642 3 6	29,415 17 2	647 9 8	21 14 2	..	143 0 0	790 9 8	29,785 10 9	..	..	..	..	..	..
70. Wairu ..	70 3 3	2,279 12 8	103 14 0	0 2 3	..	18 0 0	121 16 3	2,483 4 1	..	..	..	..	..	..
71. Wairu ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
72. Wairu ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
73. Wairu ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
74. Wairu ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
75. Wairu ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
76. Wairu ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Totals ..	19,412 2 7	569,466 7 2	19,518 16 1	663 18 8	37 13 3	2,881 14 7	23,102 2 7	583,426 8 11	1,675 11 7	5,365 11 7	11,896 13 6	5,165 7 5	20,691 7 10	..
Grand Totals ..	96,391 4 3	1,811,803 16 5	56,292 0 9	21,767 11 8	1,145 8 6	14,968 14 7	94,173 15 6	1,757,615 2 0	12,797 7 0	10,579 18 3	96,127 1 5	7,049 13 4	34,888 13 8	..

The Districts set out hereunder are those whose works will not produce sufficient revenue to cover the expense of the maintenance and management thereof, and where water supplies are being continued by direction of the Governor in Council. The annual amount of loss resulting from the maintenance and management of these districts has been transferred to "Revenue Expenditure Chargeable to the State Account". (By Authority of Orders in Council dated 30th July, 1938, 9th December, 1940, 18th December, 1945, and 24th April, 1946, respectively, under the provisions of Section 6, *Water Act 1937*, No. 4513.)

	404 9 3	542 8 3	0 17 7	56 0 0	0 1 5	..	599 7 3	(Dr.)	194 18 0	2 14 9	(B)	3 18 0	1,638 15 9	116 15 2	1,133 5 8
32. Anglesa ..	400 10 11	932 9 10	0 1 7	23 0 0	..	..	405 11 5	(Dr.)	54 19 6	..	..	..	96 18 2	..	..
33. Baitan ..	620 11 7	936 11 5	0 9 5	84 0 0	..	0 18 9	1,020 11 5	(Dr.)	389 19 10	..	..	..	873 6 5	1,314 3 0	..
34. Birehip ..	160 5 1	187 13 1	0 9 5	34 0 0	..	..	132 9 7	(Dr.)	27 15 6	..	..	..	..	..	287 1 1
35. Birehip ..	408 12 3	187 13 1	0 14 9	144 0 0	0 1 3	2 16 3	329 6 2	(Dr.)	78 18 7	..	..	..	474 1 9	..	1,285 17 7
36. Bunyap ..	156 12 3	57 18 2	..	6 0 0	..	..	33 19 2	(Dr.)	22 13 1	..	..	..	..	..	283 17 7
37. Chikungah ..	116 11 6	57 18 2	..	6 0 0	..	..	33 19 2	(Dr.)	22 13 1	..	..	..	..	..	44 7 10
38. Chikungah ..	91 11 6	217 4 8	..	6 0 0	..	..	229 13 2	(Dr.)	124 13 2	183 10 5	..	..	157 15 3	499 3 2	..
39. Chikungah ..	586 19 11	284 12 6	86 2 3	129 0 0	6 0 4	1 17 6	507 13 6	(Dr.)	13 7 6	36 8 8	..	..	..	..	..
40. Chikungah ..	83 19 17	8 18 6	0 12 4	13 0 0	..	..	57 13 10	(Dr.)	13 7 6	..	..	..	..	..	..
41. Doreen ..	304 16 11	500 18 5	0 12 1	83 0 0	0 1 11	..	57 13 10	(Dr.)	13 7 6	..	..	..	..	..	..
42. Drydale ..	398 16 11	153 17 1	0 14 1	11 0 0	0 1 2	4 13 9	270 16 1	(Dr.)	34 10 4	..	..	..	..	..	..
43. Garfield ..	388 5 4	289 17 3	0 14 1	11 0 0	0 1 2	5 0 0	270 16 1	(Dr.)	34 10 4	..	..	..	..	..	..
44. Hastings ..	822 10 4	690 18 8	0 14 5	61 0 0	0 1 3	..	456 0 11	(Dr.)	87 15 7	..	..	..	..	..	..
45. Hopeoun ..	108 17 3	89 14 6	0 1 0	64 0 0	..	..	752 14 4	(Dr.)	69 16 0	1 17 0	..	..	..	..	..
46. Jung Jung ..	558 11 3	558 11 3	2 17 4	68 0 0	0 4 9	1 3 4	422 11 3	(Dr.)	25 18 3	..	..	..	..	..	..
47. Koondrook ..	745 11 6	707 16 0	4 15 11	42 0 0	0 6 9	..	780 1 5	(Dr.)	34 9 11	31 18 5	..	..	..	..	..
48. Lake Boga ..	580 2 5	580 2 5	0 9 6	21 0 0	..	..	427 5 1	(Dr.)	413 3 9	1 14 8	..	..	..	..	..
49. Lalbert ..	129 3 1	130 4 10	61 11 6	33 0 0	4 6 6	2 10 0	151 14 4	(Dr.)	114 19 0	3 13 11	..	..	..	..	..
50. Lascelles ..	388 1 1	404 2 1	0 2 7	13 0 0	..	..	503 0 1	(Dr.)	39 8 7	15 10 2	..	..	..	..	..
51. Manangatang ..	102 18 7	126 14 7	0 2 7	39 0 0	..	..	142 7 2	(Dr.)	644 18 8	..	..	..	..	..	..
52. Merino ..	171 4 7	777 3 3	0 2 0	9 0 0	..	..	816 3 3	(Dr.)	20 7 1	16 8 9	..	..	..	..	..
53. Mitiamo ..	72 19 9	84 4 10	64 17 9	51 0 0	4 11 1	..	93 6 10	(Dr.)	438 13 4	..	..	..	..	..	..
54. Newstead ..	111 14 7	84 19 1	10 6 7	10 0 0	0 15 10	..	106 1 6	(Dr.)	9 18 0	..	..	..	..	..	..
55. Nullawil ..	178 1 8	178 1 8	0 1 0	116 0 0	..	..	533 15 3	(Dr.)	42 18 6	..	..	..	..	..	..
56. Nyah ..	178 1 8	178 1 8	0 1 0	116 0 0	..	..	533 15 3	(Dr.)	42 18 6	..	..	..	..	..	..
57. Nyah West ..	178 1 8	178 1 8	0 1 0	116 0 0	..	..	533 15 3	(Dr.)	42 18 6	..	..	..	..	..	..
58. Nyah West ..	178 1 8	178 1 8	0 1 0	116 0 0	..	..	533 15 3	(Dr.)	42 18 6	..	..	..	..	..	..
59. Ouyen ..	178 1 8	178 1 8	0 1 0	116 0 0	..	..	533 15 3	(Dr.)	42 18 6	..	..	..	..	..	..
60. Patchewollock ..	178 1 8	178 1 8	0 1 0	116 0 0	..	..	533 15 3	(Dr.)	42 18 6	..	..	..	..	..	..
61. Plangil ..	218 17 2	182 5 9	2 6 3	195 0 0	0 3 10	0 5 0	1,873 18 0	(Dr.)	135 12 9	120 6 3	..	..	..	..	..
62. Portarlington ..	344 18 9	290 9 9	0 2 0	43 0 0	..	1 7 3	235 13 0	(Dr.)	16 15 10	7 16 3	..	..	..	..	..
63. Quambatook ..	637 6 3	541 2 9	56 17 2	19 0 0	4 2 2	1 5 3	1,167 8 5	(Dr.)	674 8 11	35 10 4	..	..	..	..	..
64. Sea Lake ..	75 17 3	111 7 1	0 10 7	43 0 0	..	..	334 17 0	(Dr.)	10 1 9	..	..	..	..	..	..
65. Speed ..	106 16 11	136 13 3	0 10 7	17 0 0	..	1 16 8	677 2 1	(Dr.)	49 15 10	7 2 11	..	..	..	..	..
66. Tempy ..	711 12 6	1,140 2 6	0 10 7	17 0 0	0 7 5	0 11 11	1,242 5 6	(Dr.)	56 7 0	..	..	..	..	..	..
67. Torquay ..	265 18 5	431 5 1	0 10 5	36 0 0	..	..	154 3 10	(Dr.)	47 6 11	..	..	..	..	..	..
68. Urtina ..	146 11 2	184 15 10	0 14 7	18 0 0	..	..	467 15 6	(Dr.)	530 13 0	1 1 4	..	..	..	..	..
69. Walthie ..	267 7 4	274 11 9	0 1 0	42 0 0	0 1 2	..	106 19 10	(Dr.)	201 17 1	27 10 5	..	..	..	..	..
70. Walpeup ..	4,178 7 10	2,356 5 7	337 13 6	414 0 0	23 12 1	7 12 1	198 11 7	(Dr.)	52 0 5	45 13 4	..	..	..	..	..
71. Werriem ..	429 9 10	163 19 1	0 9 5	65 0 0	..	..	324 4 10	(Dr.)	56 17 6	2 1 10	..	..	..	..	..
72. Wonthaggi ..	160 17 3	163 19 1	21 14 2	143 0 0	1 10 9	5 3 8	408 12 4	(Dr.)	19 17 6	14 18 9	..	..	..	..	..
73. Woomelang ..	634 16 11	103 14 0	0 2 3	18 0 0	..	..	790 12 1	(Dr.)	155 15 2	2 10 6	..	..	..	..	..
74. Woorinen ..	..	..	..	..	..	..	..	(Dr.)	..	..	..	..	..	..	..
75. Wycheproof ..	..	..	..	..	..	..	..	(Dr.)	..	..	..	..	..	..	..
76. Yaapeet ..	..	..	..	..	..	..	..	(Dr.)	..	..	..	..	..	..	..
Totals ..	19,250 8 9	19,108 9 6	663 18 8	2,852 0 0	46 14 3	38 3 10	22,709 6 3	{(Dr.)	1,532 13 8}	514 17 2	{(A)	0 2 11}	12,406 9 9	11,467 3 1	21,964 1 3
Grand Totals ..	98,179 15 7	55,941 14 2	21,767 11 8	14,939 0 0	1,515 1 8	870 4 4	95,033 11 10	{(Dr.)	14,111 5 7}	877 14 7	{(A)	14 14 3}	26,603 15 7	12,731 8 7	120,925 19 3

FLOOD PROTECTION DISTRICTS.

CASH ACCOUNT.

STATEMENT of Moneys received and disbursed from 1st July, 1920, to 30th June, 1946, also of Interest charged at the rates of 3·679 per cent. on Capital Debits as at 30th June, 1943, and 3 per cent. on Capital Debits subsequent to 30th June, 1943, and of Redemption charged for Financial Year 1945-46.

District.	Receipts.			Expenditure.						Excess Receipts over Expenditure 1945-46.	Excess Expenditure over Receipts 1945-46.	Accumulated.								
	Receipts Year Ended 30th June, 1946.		Total 1920 to 30th June, 1946.	Year ended 30th June, 1946.				Total.	Surplus as at 30th June, 1946.			Deficiency chargeable to State Account as at 30th June, 1946.								
				Operating Costs	Interest.	Redemption.	Total.													
	£	s.	d.					£	s.			d.	£	s.	d.	£	s.	d.		
1. Cardinia ..	2,742	10	6	50,023	1	9	..	..	1,859	18	2	882	12	4	5,683	14	2	3,303	19	2
2. Kanyapella ..	241	3	6	5,640	1	10	..	..	16	7	4	224	16	2	919	17	4	..	..	..
3. Loch Garry ..	732	7	2	18,672	15	0	..	..	82	7	5	649	19	9	2,390	16	2	..	..	..
4. Lower Kooweerup ..	5,136	17	1	98,771	13	2	..	..	4,659	8	1	477	9	0	4,807	9	0	7,949	1	8
Totals ..	8,852	18	3	173,107	11	9	..	..	6,618	1	0	2,234	17	3	13,801	16	8	11,253	0	10

PROFIT AND LOSS ACCOUNT FOR FINANCIAL YEAR 1945-46.

STATEMENT of Revenue Assessment (inclusive of Charge, Interest and Miscellaneous) and Expenditure, Interest and Redemption charged, and Amounts Written Off.

District.	Expenditure.						Profit and Loss.									
	Revenue Assessment.	Operating Costs.	Interest.		Redemption.	Amounts Written Off.		Total.	Excess Assessment over Expenditure.	Excess Expenditure over Assessment.	Revenue Due for Previous Years Written Off.	Adjustments of Revenue for Years Prior to 1945-46.		Interest and Other Losses Prior to 30th June, 1938 Borne by State.	Loss since 30th June, 1938.	Gain as at 30th June, 1946.
			£	s. d.		£	s. d.					(A) Loss.	(B) Gain.			
	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.
1. Cardinia ..	2,665 12 10	1,859 18 2	..	..	8 8 5	1,868 6 7	797 6 3	70 10 3	..	..	3,303 19 2	..	7,307 3 1	..	..	7,307 3 1
2. Kanyapella ..	163 2 0	16 7 4	..	..	..	16 7 4	146 14 8	..	..	..	..	..	1,555 15 1	..	..	1,555 15 1
3. Loch Garry ..	376 2 10	82 7 5	..	..	2 8	82 10 1	293 12 9	5 9 6	..	..	..	..	3,409 11 8	..	..	3,409 11 8
4. Lower Kooweerup ..	4,766 18 8	4,659 8 1	..	..	1 4 1	4,660 12 2	106 6 6	1 0 1	..	..	7,949 1 8	..	7,033 0 0	..	..	7,033 0 0
Totals ..	7,971 16 4	6,618 1 0	..	..	9 15 2	6,627 16 2	1,344 0 2	76 19 10	..	..	11,253 0 10	..	19,305 9 10	..	..	19,305 9 10

DRAINAGE DISTRICTS.

CASH ACCOUNT.

STATEMENT of Moneys received and disbursed from 1st July, 1937, to 30th June, 1946; also of Depreciation charged for Financial Year 1945-46.

District.	Receipts.				Expenditure.				Accumulated.				
	Year Ended 30th June, 1946				Year Ended 30th June, 1946				Excess Receipts over Expenditure 1945-46.	Excess Expenditure over Receipts, 1945-46.	Surplus Credited to District Account at 30th June, 1946.	Deficiency Charged to District Account at 30th June, 1946.	Deficiency Chargeable to State Account at 30th June, 1946 (Inclusive of Column 11).
	Receipts	Contribution from Irrigation Districts.	Total.	Total, 1937 to 30th June, 1946.	Operating Costs.	Depreciation.	Total.	Total, 1937 to 30th June, 1946.					
1.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
1. Carrum ..	2,421 13 10	..	2,421 13 10	12,432 7 4	742 18 5	..	742 18 5	11,284 8 8	1,678 15 5	..	1,147 18 8	..	..
Total ..	2,421 13 10	..	2,421 13 10	12,432 7 4	742 18 5	..	742 18 5	11,284 8 8	1,678 15 5	..	1,147 18 8	..	..

The Districts set out hereunder are those whose works will not produce sufficient revenue to cover the expense of the "maintenance and management thereof. The annual amount of loss resulting from the maintenance and management of these districts has been transferred to the "Revenue Expenditure Chargeable to the State Account." (By authority of Order in Council, dated 14th June, 1943, under the provisions of section 6, *Water Act 1937*, No. 4513.)

2. Cohuna ..	1,824 3 9	..	1,824 3 9	18,184 13 0	5,636 17 4	..	5,636 17 4	23,210 13 8	..	129 13 7	..	..	5,026 0 8
3. Kerang East ..	1,205 17 9	1,184 0 0	2,389 17 9	10,015 5 2	1,402 2 5	..	1,402 2 5	8,725 7 0	987 15 4	..	1,289 18 2	..	..
4. Maffra-Sale ..	1,325 15 6	2,839 0 0	4,164 15 6	12,132 8 10	3,934 10 3	..	3,934 10 3	10,893 4 3	230 5 3	..	..	2,505 4 11	5,255 10 6
5. Merbein ..	1,605 16 11	..	1,605 16 11	13,643 4 11	1,582 15 7	535 0 0	2,117 15 7	15,471 6 1	..	511 18 8	..	396 12 8	1,431 8 6
6. Murrabit ..	200 15 6	..	200 15 6	788 12 0	1,475 12 5	..	1,475 12 5	3,079 19 4	..	1,274 16 11	..	..	2,291 7 4
7. Nyah ..	183 0 11	..	183 0 11	638 6 10	95 5 6	95 0 0	190 5 6	724 13 0	..	7 4 7	..	..	86 6 2
8. Red Cliffs ..	2,686 2 5	..	2,686 2 5	22,889 4 7	2,292 6 0	879 0 0	3,171 6 0	23,715 15 3	..	485 3 7	..	..	826 10 8
9. Rochester ..	1,796 17 6	4,310 0 0	6,106 17 6	18,550 10 1	6,499 14 9	..	6,499 14 9	28,871 11 8	..	392 17 3	..	947 0 1	9,404 1 6
10. Rodney ..	1,003 12 6	913 0 0	1,916 12 6	8,255 4 6	1,487 6 6	..	1,487 6 6	9,408 2 7	429 6 0	..	..	763 1 8	389 16 5
11. Shepparton ..	2,853 17 3	2,245 0 0	5,098 17 3	25,453 11 5	5,528 19 7	..	5,528 19 7	34,331 9 11	..	430 2 4	..	1,003 5 6	7,874 13 0
12. Tongala-Stanhope	3,266 18 1	3,604 0 0	6,870 18 1	29,239 7 10	16,018 11 8	..	16,018 11 8	54,012 12 2	..	9,147 13 7	..	2,527 9 9	22,245 14 7
13. Werribee ..	687 14 5	259 0 0	946 14 5	5,766 16 11	857 13 0	..	857 13 0	5,031 1 11	89 1 5	..	735 15 0	..	..
14. Woorinen ..	586 7 4	..	586 7 4	3,614 18 4	878 14 9	213 0 0	1,091 14 9	5,459 11 3	..	505 7 5	..	..	1,844 12 11
Totals ..	19,226 19 10	19,037 0 0	38,263 19 10	169,142 4 5	47,690 9 9	1,722 0 0	49,412 9 9	231,935 8 1	1,736 8 0	12,884 17 11	2,025 13 2	8,142 14 7	56,676 2 3
Grand Totals	21,648 13 8	19,037 0 0	40,685 13 8	181,574 11 9	48,433 8 2	1,722 0 0	50,155 8 2	243,219 16 9	3,415 3 5	12,884 17 11	3,173 11 10	8,142 14 7	56,676 2 3

DRAINAGE DISTRICTS.

PROFIT AND LOSS ACCOUNT FOR FINANCIAL YEAR 1945-46.

STATEMENT of Revenue Assessment (inclusive of Rate, Interest, and Miscellaneous) and of Expenditure, Depreciation charged and Amounts Written Off.

District.	Expenditure.						Profit and Loss.							
	Revenue Assessment.	Operating Costs.	Depreciation.	Amounts Written Off.	Total.	Excess Assessment over Expenditure.	Excess Expenditure over Assessment.	Revenue Due for Previous Years Written Off.	Adjustments to Revenue for Years Prior to 1945-46. (A) Loss. (B) Gain.	Interest and Other Losses Prior to 30th June, 1938 Borne by State.	Loss since 30th June, 1938.	Gain as at 30th June, 1946.		
1. Carrum	£ s. d. 2,312 11 0	£ s. d. 742 18 5	£ s. d. ..	£ s. d. 0 3 5	£ s. d. 743 1 10	£ s. d. 1,569 9 2	£ s. d. ..	£ s. d. 41 9 7	£ s. d. ..	£ s. d. ..	£ s. d. ..	£ s. d. 2,342 13 4		
Total	2,312 11 0	742 18 5	..	0 3 5	743 1 10	1,569 9 2	..	41 9 7	..	..	..	2,342 13 4

The Districts set out hereunder, are those whose works will not produce sufficient revenue to cover the expense of the maintenance and management thereof. The annual amount of loss resulting from the maintenance of these districts has been transferred to the "Revenue Expenditure Chargeable to the State Account". (By authority of Order in Council dated 14th June, 1943, under the provisions of Section 6, *Water Act 1937*, No. 4513.)

2. Cohuna	*5,532 6 4	5,636 17 4	..	..	5,636 17 4	..	104 11 0	111 18 7	(B) 101 13 1	523 17 8	4,376 17 8	..
3. Kerang East	*2,373 0 0	1,402 2 5	..	..	1,402 2 5	970 17 7	..	..	..	424 14 0	..	2,634 0 6
4. Maffra-Sale	*4,151 10 10	3,934 10 3	..	..	3,934 10 3	217 0 7	..	..	..	..	7,715 15 8	..
5. Merbein	1,604 3 4	1,582 15 7	535 0 0	..	2,117 15 7	..	513 12 3	..	..	236 2 10	1,621 13 5	..
6. Murrabit	213 4 10	1,475 12 5	..	1 16 3	1,477 8 8	..	1,264 3 10	..	..	..	2,230 12 2	..
7. Nyah	178 7 2	95 5 6	95 0 0	..	190 5 6	..	11 18 4	..	..	..	148 7 2	..
8. Red Cliffs	2,702 1 8	2,292 6 0	879 0 0	0 12 0	3,171 18 0	..	469 16 4	..	..	153 7 2	606 13 5	..
9. Rochester	*6,069 4 9	6,499 14 9	..	1 8 6	6,501 3 3	..	431 18 6	0 1 11	(B) 0 6 0	1,178 16 9	8,500 12 3	..
10. Rodney	*1,845 7 7	1,487 6 6	..	6 8 2	1,493 14 8	351 12 11	..	28 2 1	..	325 4 3	376 9 10	..
11. Shepparton	*5,058 7 4	5,528 19 7	..	18 1 1	5,547 0 8	..	488 13 4	3 9 8	..	402 11 8	8,376 8 1	..
12. Tongala-Stanhope	*6,752 9 8	16,018 11 8	..	3 11 1	16,022 2 9	..	9,269 13 1	2 13 9	..	520 0 9	23,416 10 9	..
13. Werribee	*917 14 1	857 13 0	..	..	857 13 0	60 1 1	..	..	(B) 0 2 9	43 16 3	..	820 2 2
14. Woorinen	604 18 10	878 14 9	213 0 0	..	1,091 14 9	..	486 15 11	..	..	..	1,826 10 7	..
Totals	38,002 16 5	47,690 9 9	1,722 0 0	31 17 1	49,444 6 10	1,599 12 2	13,041 2 7	146 6 0	(B) 102 1 10	3,808 11 4	59,196 11 0	3,454 2 8
Grand Totals	*40,315 7 5	48,433 8 2	1,722 0 0	32 0 6	50,187 8 8	3,169 1 4	13,041 2 7	187 15 7	(B) 102 1 10	3,808 11 4	59,196 11 0	5,796 16 0

* Includes Contributions from Irrigation Districts—Cohuna £3,683, Kerang East £1,184, Maffra-Sale £2,839, Rochester £4,310, Rodney £913, Shepparton £2,245, Tongala-Stanhope £3,604, Werribee £259. Total £19,087.

SUMMARY OF CASH ACCOUNTS, 1945-46.

Works.	Receipts.				Expenditure.							Accumulated Surplus or Deficiency at 30th June, 1946.			
	Year Ended 30th June, 1946.				Year Ended 30th June, 1946.										
	Receipts.		Contribution from Irrigation Districts.	Total.	Total, 1946, 30th June, 1946.	Operating Costs.		Contribution to Drainage Districts.	(A) Interest; (B) Redemption.	Depreciation.	Total.					Total, 1946, 30th June, 1946.	(S) Excess Receipts over Expenditure ; (D) Excess Expen- diture over Receipts, 1945-46.	(D) Chargeable, or (S) Credited to District Account.	Chargeable to State Account (Inclusive of Column 12).
	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.		
1.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
Coliban System ..	47,475 6 8	..	47,475 6 8	1,748,951 16 7	43,583 16 9	..	(A)10,774 8 7	7,755 0 0	62,113 5 4	2,619,665 19 11	(D) 14,637 18 8	(D) 16,457 8 0	854,256 15 4		
Irrigation Districts ..	321,384 12 11	..	321,384 12 11	7,596,148 17 11	294,201 12 4	19,037 0 0	..	14,376 0 0	327,614 12 4	8,355,682 5 4	{(S) 26,906 3 4 (D) 33,136 2 9}	{(S) 94,889 19 10 (D) 123,321 5 3}	731,102 2 0		
Irrigation Urban Divisions	6,312 0 0	..	6,312 0 0	160,011 13 6	5,773 8 0	..	{(A) 553 4 11 (B) 13 16 2}	727 0 0	7,067 9 1	154,316 18 9	{(S) 216 19 7 (D) 972 8 8}	{(S) 8,391 2 9 (D) 197 19 0}	2,498 9 0		
Waterworks Districts	161,626 10 3	..	161,626 10 3	3,756,648 18 0	487,309 15 6	..	{(A) 8,768 10 5 (B) 607 19 1}	8,871 0 0	505 557 5 0	5,568,749 1 7	{(S) 14,894 6 5 (D) 358,825 1 2}	{(S) 43,505 10 5 (D) 215,976 19 3}	1,639,628 14 9		
Waterworks Districts	96,391 4 3	..	96,391 4 3	1,811,803 16 5	56,292 0 9	..	{(A)21,767 11 8 (B) 1,145 8 6}	14,968 14 7	94,173 15 6	1,757,615 2 0	{(S) 12,797 7 0 (D) 10,579 18 3}	{(S) 96,127 1 5 (D) 7,049 13 4}	34,888 13 8		
Flood Protection Districts	8,852 18 3	..	8,852 18 3	173,107 11 9	6,618 1 0	..	..	..	6,618 1 0	170,558 15 11	(S) 2,234 17 3	(S) 13,801 16 8	11,253 0 10
Drainage Districts ..	21,648 13 8	19,037 0 0	40,685 13 8	181,574 11 9	48,433 8 2	..	..	1,722 0 0	50,155 8 2	243,219 16 9	{(S) 3,415 3 5 (D) 12,884 17 11}	{(S) 3,173 11 10 (D) 8,142 14 7}	56,676 2 3
Totals ..	663,691 6 0	19,037 0 0	682,728 6 0	15,428,247 5 11	942,212 2 6	19,037 0 0†	{(A)41,863 15 7 (B) 1,767 3 9}	*48,419 14 7	1,053,299 16 5	18,869,808 0 3	{(S) 60,464 17 0 (D) 431,036 7 5}	{(S) 259,889 2 11 (D) 371,145 19 5}	3,330,303 17 10		

*. Excludes direct contributions to Depreciation Fund—£390 2s. 6d.

† Excludes Redemption paid in Respect of Plant and Machinery Account—£133 Os. 1d.

(s) Surplus.

(d) Deficiency.

SUMMARY OF PROFIT AND LOSS ACCOUNTS FOR FINANCIAL YEAR 1945-46.

Works.	Expenditure.						Profit and Loss.						
	Revenue Assessment.	Operating Costs.	Interest.	Depreciation.	(A) Redemption ; (B) Contribution to Drainage Districts.	Amounts Written Off.	Total.	Excess— (Cr.) Assessment ; (Dr.) Expenditure for Year.	Revenue Due for Previous Years Written Off.	Adjustments to Revenue for Years prior to 1945-46. (A) Loss. (B) Gain.	Interest and Other Losses prior to 30th June, 1938. Borne by State.	Loss since 30th June, 1938.	Gain as at 30th June, 1946.
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
Coliban System ..	46,717 12 4	43,588 16 9	10,774 8 7	7,755 0 0	(A) 732 11 7	2 5 1	62,848 2 0	(Dr.) 16,130 9 8	154 19 4	(A) 1 0 1	828,373 18 10	53,218 16 5	..
Irrigation Districts ..	308,519 0 5	294,201 12 4	..	14,376 0 0	(B) 19,037 0 0	5,145 3 4	332,759 15 8	{(Cr.) 15,620 12 1} {(Dr.) 39,861 7 4}	392 0 3	{(A) 14 4 0} {(B) 157 13 7}	668,384 11 9	157,209 1 6	193,254 9 5
Irrigation Urban Districts	6,230 15 5	5,773 8 0	553 4 11	727 0 0	(A) 39 5 5	125 15 9	7,218 14 1	{(Cr.) 132 5 11} {(Dr.) 1,120 4 7}	40 12 4	(B) 7 13 0	1,337 14 5	1,430 18 3	9,629 8 10
Waterworks Districts	174,235 1 10	486,982 19 6	8,768 10 5	8,871 0 0	(A) 607 19 1	520 10 3	505,750 19 3	{(Cr.) 11,051 8 3} {(Dr.) 342,567 5 8}	7,731 18 3	{(A) 1,111 12 4} {(B) 1,257 5 3}	677,688 8 2	966,256 9 8	49,310 1 1
Waterworks Urban Districts	98,179 15 7	55,941 14 2	21,767 11 8	14,939 0 0	(A) 1,515 1 8	870 4 4	95,033 11 10	{(Cr.) 14,111 5 7} {(Dr.) 10,965 1 10}	877 14 7	{(A) 14 14 3} {(B) 54 7 6}	26,603 15 7	12,731 8 7	120,925 19 3
Flood Protection Divisions	7,971 16 4	6,618 1 0	..	..	..	9 15 2	6,627 16 2	(Cr.) 1,344 0 2	76 19 10	..	11,253 0 10	..	19,305 9 10
Drainage Districts ..	40,315 7 5*	48,433 8 2	..	1,722 0 0	..	32 0 6	50,187 8 8	{(Cr.) 3,169 1 4} {(Dr.) 13,041 2 7}	187 15 7	(B) 102 1 10	3,808 11 4	50,196 11 0	5,796 16 0
Totals ..	682,169 9 4*	941,534 19 11	41,863 15 7	48,300 0 0	{(A) 2,894 17 9} {(B) 19,037 0 0}	6,705 14 5	1,060,426 7 8	{(Cr.) 45,428 13 4} {(Dr.) 423,685 11 8}	9,462 0 2	{(A) 1,141 10 8} {(B) 1,579 1 2}	2,217,450 0 11	1,250,043 5 5	398,222 4 5

* Includes contributions from Irrigation Districts, £19,037.

DISTRICT BALANCE SHEETS AS AT 30TH JUNE, 1946.

District.	Liabilities.						Assets.						
	Capital borne by— (A) State. (B) District.	Redemption Account.	Depreciation Account.	Sundry Creditors.	Accumulated Deficiency Chargeable to— (A) District Account. (B) State Account.		Profit and Loss Account. Gain.	Works at Cost.	Water Supply Works Depreciation Fund.	Sundry Debtors.	Accumulated Surplus Credited to District Account.	Profit and Loss Account.	
					£	s. d.						£	s. d.	Loss since 30th June, 1938.	Interest and Other Losses prior to 30th June, 1938, Borne by State.
1. Harcourt	.. .. (A) 17,022 9 3	232 18 6	25 1 5	.. ..	(A) 1,534 2 4	.. ..	.. ..	17,255 7 9	25 1 5	49 13 0	.. ..	1,484 9 4	.. ..
Totals	.. .. (A) 17,022 9 3	232 18 6	25 1 5	.. ..	(A) 1,534 2 4	.. ..	.. ..	17,255 7 9	25 1 5	49 13 0	.. ..	1,484 9 4	.. ..
COLIBAN SYSTEM.													
2. Axe Creek	.. .. (A) 4,908 18 4	.. ..	.. ..	.. ..	{ (A) 983 8 1 } { (B) 302 0 3 }	.. ..	.. ..	4,908 18 4	.. ..	9 19 1	.. ..	1,275 19 3	.. ..
3. Coliban	.. .. { (A) 1,397,570 4 5 } { (B) 293,190 19 6 }	7,010 12 3	60,294 5 8	72 8 11	{ (A) 13,729 8 9 } { (B) 853,874 2 7 }	.. ..	.. ..	1,690,770 3 11	50,336 10 5	5,980 8 2	.. ..	50,230 0 9	828,373 18 10
4. Marong	.. .. { (A) 2,081 19 9 } { (B) 22 18 10 }	14 7 4	383 9 3	.. ..	{ (A) 210 8 10 } { (B) 80 2 6 }	.. ..	.. ..	2,119 0 8	383 9 3	62 9 6	.. ..	228 7 1	.. ..
Totals	.. .. { (A) 1,404,561 2 6 } { (B) 293,222 18 4 }	7,024 19 7	60,617 14 11	72 8 11	{ (A) 14,923 5 8 } { (B) 854,256 15 4 }	.. ..	.. ..	1,697,798 2 11	50,719 19 8	6,052 16 9	.. ..	51,734 7 1	828,373 18 10
Grand Totals	.. .. { (A) 1,421,583 11 9 } { (B) 293,222 18 4 }	7,257 18 1	60,642 16 4	72 8 11	{ (A) 16,457 8 0 } { (B) 854,256 15 4 }	.. ..	.. ..	1,715,053 10 8	50,745 1 1	6,102 9 9	.. ..	53,218 16 5	828,373 18 10
												£2,653,493 16s. 9d.	
												£2,653,493 16s. 9d.	

The Districts set out hereunder are those whose works will not produce sufficient revenue to cover the expense of the maintenance and management thereof, and where water supplies are being continued by direction of the Governor in Council. The annual amount of loss resulting from the maintenance and management of these districts has been transferred to the "Revenue Expenditure Chargeable to the State Account". (By authority of Orders in Council, dated 8th November, 1943, 18th December, 1944, and 26th February, 1946, respectively, under the provisions of Section 6, *Water Act* 1937, No 4513.)

The Districts set out hereunder are those whose works will not produce sufficient revenue to cover the expense of the maintenance and management thereof, and where water supplies are being continued by direction of the Governor in Council. The annual amount of loss resulting from the maintenance and management of these districts has been transferred to the "Revenue Expenditure Chargeable to the State Account". (By authority of Orders in Council, dated 8th November, 1943, 18th December, 1944, and 26th February, 1946, respectively, under the provisions of Section 6, *Water Act* 1937, No 4513.)

DISTRICT BALANCE SHEETS AS AT 30TH JUNE, 1946.

District.	Liabilities.					Assets.						
	Capital borne by— State.	Redemption Account.	Depreciation Account.	Sundry Creditors.	Accumulated Deficiency Chargeable to— (A) State Account. (B) District Account.	Profit and Loss Account. Gain.	Works at Cost.	Water Supply Works Depreciation Fund.	Sundry Debtors.	Accumulated Surplus Credited to District Account.	Profit and Loss Account.	
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	Loss since 30th June, 1938.	Interest and Other Losses prior to 30th June, 1938, borne by State.
1. Bacchus Marsh	179,074 2 8	968 9 4	195 0 2	149 8 2	{(A) 21,170 8 3 (B) 11,031 14 8}	..	180,042 12 0	195 0 2	198 7 11	..	10,982 14 11	21,170 8 3
2. Boort	250,596 0 1	215 13 8	289 16 0	23 12 11	{(A) 1,620 15 3 (B) 9,428 15 1}	..	250,811 13 9	289 16 0	3,320 8 11	..	6,131 19 1	1,620 15 3
3. Calivil	194,751 7 8	153 7 2	129 7 11	58 5 10	{(A) 19,935 9 2 (B) 1,788 18 3}	10,493 0 7	194,904 14 10	129 7 11	3,180 14 7	7,370 11 10	..	19,935 9 2
4. Campaspe	18,195 1 8	..	..	67 1 2	{(A) 3,695 6 10 (B) 14,621 3 2}	1,788 18 3	18,195 1 8	..	487 3 8	1,368 15 9	..	3,695 6 10
5. Colurna	826,933 11 2	4,025 5 5	306 14 8	24 6 9	{(A) 2,177 4 8 (B) 4,766 11 5}	32,926 6 6	830,958 16 7	306 14 8	8,137 10 2	24,213 3 1	..	14,621 3 2
6. Deakin	95,284 18 6	506 14 4	..	6 10 11	{(A) 27,809 13 11 (B) 3,579 8 9}	11,730 6 10	95,701 12 10	..	3,752 3 3	7,984 14 6	..	2,177 4 8
7. Dingee	73,784 15 0	198 0 9	99 17 10	1 2 11	{(A) 4,766 11 5 (B) 27,809 13 11}	2,500 15 1	73,982 15 9	99 17 10	787 17 5	1,714 0 7	..	4,766 11 5
8. Katandra	180,763 18 1	220 9 5	119 8 10	..	{(A) 3,579 8 9 (B) 52,221 12 1}	5,586 11 11	180,984 7 6	119 8 10	2,578 3 8	3,008 8 3	..	27,809 13 11
9. Kerang	381,798 15 9	1,110 12 9	49 8 8	7 5 2	{(A) 2,768 7 1 (B) 3,713 1 5}	13,654 0 6	382,909 8 6	49 8 8	6,319 16 6	7,341 9 2	..	3,579 8 9
10. Koondrook	467,530 2 1	1,307 4 9	..	18 7 2	{(A) 52,221 12 1 (B) 2,768 7 1}	4,470 14 3	468,837 6 10	..	7,257 8 6	..	..	52,221 12 1
11. Maffra-Sale	1,270,907 8 1	2,447 15 0	1,365 5 6	10 6 2	{(A) 3,713 1 5 (B) 11,447 10 0}	17,885 17 4	1,273,355 3 1	1,365 5 6	4,515 4 3	13,380 19 3	..	3,713 1 5
12. Murray Valley	1,691,469 17 11	136 0 0	341 13 1	15 5 1	{(A) 2,112 16 8 (B) 5,612 18 6}	11,447 10 0	1,691,005 17 11	341 13 1	3,731 1 0	7,731 14 1	..	..
13. Mystic Park	57,445 2 9	101 8 8	..	9 3 10	..	..	57,546 11 5	..	384 10 4	..	5,237 12 0	2,112 16 8
14. Nambrook-Denison (proposed)	6,893 18 4	..	..	..	..	..	6,893 18 4	..	..	..	..	..
15. North Shepparton	358,479 8 5	1,052 13 5	282 17 2	..	{(A) 42,582 19 3 (B) 33,983 19 9}	6,623 17 3	359,532 1 10	282 17 2	2,518 15 5	4,105 1 10	..	42,582 19 3
16. Rochester	1,187,490 7 3	3,408 12 1	1,377 9 8	88 15 7	{(A) 85,834 11 4 (B) 60,735 9 0}	31,267 17 5	1,190,838 19 4	1,377 9 8	20,757 11 4	10,599 1 8	..	33,983 19 9
17. Rodney	1,488,534 18 11	2,342 14 3	1,582 10 4	12 10 0	{(A) 60,735 9 0 (B) 5,521 14 4}	15,102 8 0	1,490,877 13 2	1,582 10 4	9,634 19 7	5,489 18 5	..	85,834 11 4
18. Shepparton	486,607 6 2	899 3 8	767 15 4	..	{(A) 2,735 16 9 (B) 436 4 9}	..	487,506 9 10	767 15 4	2,307 4 4	..	3,214 10 0	60,735 9 0
19. South Shepparton	118,516 19 6	309 12 3	99 5 2	..	{(A) 6,236 10 6 (B) 2,439 2 2}	14 4 10	118,826 11 9	99 5 2	450 9 7	..	..	2,735 16 9
20. Swan Hill	478,913 9 6	1,033 7 8	4,147 11 5	35 14 4	{(A) 786 16 9 (B) 42,772 7 8}	..	479,946 17 2	4,147 11 5	3,925 5 10	..	2,764 3 7	6,236 10 6
21. Thrd Lake	50,937 10 11	82 3 11	..	32 0 9	{(A) 15,431 14 0 (B) 6,409 3 6}	431 7 0	51,019 14 10	..	1,250 4 6	..	..	2,439 2 2
22. Tongala-Stanhope	943,410 18 9	2,562 12 6	1,157 4 5	46 5 7	{(A) 42,772 7 8 (B) 15,431 14 0}	20,406 13 1	945,973 11 3	1,157 4 5	19,870 17 3	582 1 5	..	73,180 17 6
23. Tragowel Plains	769,128 14 5	1,461 1 9	681 19 7	37 8 0	{(A) 6,409 3 6 (B) 15,431 14 0}	7,554 0 7	770,589 16 2	681 19 7	13,970 12 1	..	..	42,772 7 8
24. Werribee	300,236 18 1	1,491 5 10	887 5 2	679 19 3	{(A) 15,923 2 5 (B) 42,772 7 8}	..	301,728 3 11	887 5 2	1,772 14 4	..	14,889 7 4	15,431 14 0
Totals	11,877,625 11 8	26,034 8 7	13,880 10 11	1,323 9 7	{(A) 523,356 19 6 (B) 64,572 12 2}	103,254 9 5	11,903,660 0 3	13,880 10 11	121,099 4 5	94,889 19 10	43,161 6 11	523,356 19 6

IRRIGATION DISTRICTS.

The Districts set out hereunder are those whose works will not produce sufficient revenue to cover the expense of the maintenance and management thereof, and where water supplies are being continued by direction of the Governor in Council. The annual amount of loss resulting from the maintenance and management of these districts has been transferred to the "Revenue Expenditure Chargeable to the State Account." (By authority of Orders in Council, dated 7th July, 1938, and 18th November, 1942, respectively, under the provisions of Section 6, *Water Act* 1937, No. 4513.)

	..	..	..	..	1 18 1	{(A) 3,648 16 2 (B) 835 3 0	..	..	37,511 11 8	..	1,041 3 6	784 9 3	2,479 7 4
25. Fish Point ..	..	..	..	..	..	..	..	..	..	..	..	..	..
26. Merbada ..	..	..	..	30,835 19 5	0 3 0	{(A) 61,724 8 10 (B) 18,488 18 10	..	..	470,767 17 8	..	3,546 16 4	51,022 6 11	35,437 11 8
27. Nyah ..	..	..	..	6,441 4 1	5 16 0	{(A) 35,196 6 9 (B) 11,264 15 0	..	..	204,956 12 4	..	5,136 10 11	11,032 18 11	30,297 7 11
28. Red Cliffs ..	..	..	..	61,179 10 0	16 5 0	{(A) 23,205 18 1 (B) 27,894 4 8	..	..	1,076,317 18 8	..	14,459 8 10	29,751 12 11	11,787 0 11
29. Tresco ..	..	..	..	3,784 10 9	33 4 0	{(A) 83,909 13 6 (B) 46 8 9	..	..	117,167 16 11	..	8 15 3	21,456 6 7	65,026 4 5
Totals ..	..	54 19 10	102,241 4 3	57 6 1	..	{(A) 207,745 2 6 (B) 58,748 13 1	..	..	1,906,721 17 3	..	24,192 14 10	114,047 14 7	145,027 12 3
Grand Totals ..	..	26,089 8 5	116,121 15 2	1,380 15 8	..	{(A) 731,102 2 0 (B) 123,321 5 3	192,254 9 5	..	13,810,381 17 6	94,889 19 10	145,291 19 3	157,209 1 6	668,384 11 9

£14,975,562 5s.
£14,975,562 5s.

DISTRICT BALANCE SHEETS AS AT 30TH JUNE, 1946.

District.	Liabilities.						Assets.						Profit and Loss Account.			
	Capital borne by— (A) State. (B) District.	Redemption Account.	Depreciation Account.	Sundry Creditors.	Accumulated Deficiency Chargeable to— (A) District Account. (B) State Account.	Profit and Loss Account. Gain.	Works at Cost.	Water Supply Works Depreciation Fund.	Sundry Debtors.	Accumulated Surplus Credited to District Account.						
											£	s.	d.	£	s.	d.
URBAN DIVISIONS.																
1. Bacchus Marsh	{(A) 3,752 4 3 (B) 10,129 14 2}	230 3 7	1,249 16 0	0 15 2	(B) 928 14 10	1,376 9 0	14,086 5 5	1,249 16 0	208 18 4	1,194 2 7	..	928 14 10	..	..	..	..
2. Cohuna	{(A) 5,813 19 11 (B) 3,193 14 4}	160 5 0	643 10 7	1 4 11	..	1,712 16 0	9,167 19 3	643 10 7	231 10 1	1,482 10 10	..	..	..	..	..	..
3. Lockington	{(A) 2,109 4 5 (B) 121 11 9}	34 12 10	436 10 7	0 15 3	..	637 11 3	2,265 9 0	436 10 7	90 14 6	597 12 0	..	..	..	..	..	..
4. Red Cliffs	{(A) 15,125 14 5 (B) 1,624 2 5}	238 8 4	1,468 1 4	3 5 0	..	4,167 17 8	16,988 5 2	1,468 1 4	581 0 1	3,590 2 7	..	..	..	..	..	..
5. Tallygaroopna	{(A) 55 16 4 (B) ..}	..	..	..	..	..	55 16 4	..	..	..	..	..	..	..	..	..
Totals	{(A) 26,856 19 6 (B) 15,069 2 8}	663 9 9	3,797 18 6	6 0 4	(B) 928 14 10	7,944 13 11	42,563 15 2	3,797 18 6	1,112 3 0	6,864 8 0	..	928 14 10	..	..	..	..
The Divisions set out hereunder are those whose works will not produce sufficient revenue to cover the expense of the maintenance and management thereof, and where water supplies are being continued by direction of the Governor in Council. The annual amount of loss resulting from the maintenance and management of these divisions has been transferred to the "Revenue Expenditure Chargeable to the State Account." (By authority of Orders in Council, dated 30th July, 1938, and 18th December, 1944, respectively, under the provisions of Section 6 of the Act 1937, No. 4513.)																
6. Corop	{(A) 231 15 6 (B) 1,534 5 1}	..	59 18 8	0 18 5	(B) 32 9 2	39 8 7	231 15 6	59 18 8	10 8 1	..	..	62 8 1	..	..	..	..
7. Dingee	{(A) 1,534 5 1 (B) 12,793 6 10}	..	59 1 4	..	{(A) 167 2 10 (B) 259 1 6}	..	1,534 5 1	45 1 4	87 7 8	..	259 6 2	93 10 6	..	..	..	..
8. Heyfield	{(A) 12,793 6 10 (B) 3,876 11 3}	..	1,144 6 10	2 8 9	(B) 689 11 1	..	12,793 6 10	1,144 6 10	52 14 1	..	478 6 7	160 19 2	..	..	..	..
9. Leitchville	{(A) 3,876 11 3 (B) 1,030 18 3}	23 19 8	448 7 0	1 13 9	{(A) 30 16 2 (B) 588 12 5}	621 11 4	3,900 10 11	448 7 0	97 13 4	525 11 9	..	..	..	..	..	..
10. Murrabit	{(A) 1,030 18 3 (B) 1,492 14 6}	..	273 19 8	..	..	..	1,030 18 3	101 9 11	6 11 0	..	693 5 6	92 1 10	..	..	..	..
11. Stanhope	{(A) 1,492 14 6 (B) 20,959 11 5}	21 4 4	266 5 1	0 1 0	..	1,023 15 0	1,513 18 10	266 5 1	22 13 0	1,001 3 0	..	..	..	..	..	..
Totals	{(A) 47,816 10 11 (B) 15,069 2 8}	45 4 0	2,251 18 7	5 1 11	{(A) 197 19 0 (B) 1,569 14 2}	1,684 14 11	21,004 15 5	2,065 8 10	277 7 2	1,526 14 9	1,430 18 3	408 19 7	..	..	..	..
Grand Totals	{(A) 47,816 10 11 (B) 15,069 2 8}	708 13 9	6,049 17 1	11 2 3	{(A) 197 19 0 (B) 2,498 9 0}	9,629 8 10	63,568 10 7	5,863 7 4	1,389 10 2	8,391 2 9	1,430 18 3	1,337 14 5	..	..	..	..

£81,981 38s. 6d.

£81,981 38s. 6d.

The Divisions set out hereunder are those whose works will not produce sufficient revenue to cover the expense of the maintenance and management thereof, and where water supplies are being continued by direction of the Governor in Council. The annual amount of loss resulting from the maintenance and management of these divisions has been transferred to the "Revenue Expenditure Chargeable to the State Account." (By authority of Orders in Council, dated 30th July, 1938, and 18th December, 1944, respectively, under the provisions of Section 6 of the Water Act 1937, No. 4513.)

DISTRICT BALANCE SHEETS AS AT 30th JUNE, 1946.

District.	Liabilities.					Assets.						
	Capital borne by— (A) State. (B) District.	Redemption Account.	Depreciation Account.	Sundry Creditors.	Accumulated Deficiency Chargeable to— (A) District (B) State Account.	Profit and Loss Account. Gain.	Works at Cost.	Water Supply Works Depreciation Fund.	Sundry Debtors	Accumulated Surplus Credited to District Account.	Profit and Loss Account.	
											Loss since 30th June, 1938.	Interest and Other Losses prior to 30th June, 1938, borne by State.
	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.
WATERWORKS DISTRICTS.												
1. Bellarine Peninsula	{ (A) 218,121 8 10 (B) 83,399 17 11 (A) 2,227 13 8	1,674 11 4	..	10 0 11	(B) 9,927 9 8	11,690 13 11	303,195 18 1	..	171 1 1	11,529 13 9	..	9,927 9 8
2. East Loddon ..	..	3,281 9 1	..	2 3 3	(A) 104 18 3	116 11 10	5,309 2 9	..	223 13 4	..	..	..
3. Loddon ..	(A) 2,933 13 7	4,320 17 6	..	3 14 4	(A) 1,304 5 4	..	7,254 11 1	..	96 0 3	..	1,211 19 5	..
4. Mornington Peninsula	{ (A) 246,911 18 4 (B) 64,890 10 0 (A) 4,686 6 10	1,111 12 10	3,632 6 8	20 12 0	(B) 1,077 12 3	29,883 11 5	312,914 1 2	3,632 6 8	822 8 9	29,081 14 8	..	1,077 12 3
5. Newstead ..	..	..	..	..	..	118 15 0	4,636 6 10	..	..	118 15 0	..	..
6. Normanville ..	(A) 19,975 17 10	222 1 11	..	6 10 6	(A) 6,462 4 1	..	20,197 19 9	..	4,102 11 3	..	2,366 3 4	..
7. Otway ..	{ (A) 77,157 0 8 (B) 90,914 18 6 (A) 11,513 6 0	1,955 5 5	14,392 13 7	4 16 0	(A) 4,496 2 4	..	170,027 4 7	14,392 13 7	391 4 8	..	4,109 13 8	..
8. Werribee ..	..	82 12 10	..	..	(B) 2,221 10 10	1,218 13 10	11,395 18 10	..	136 9 7	1,082 4 3	..	2,221 10 10
9. Western Wimmera	(A) 353,405 17 6	177 10 2	5,405 10 5	2 5 3	{ (A) 23,404 14 10 (B) 13,428 5 1 (A) 1,618 6 9	..	353,583 7 8	5,405 10 5	3,308 15 10	..	20,098 4 3	13,428 5 1
10. West Loddon ..	(A) 8,576 9 4	3,764 7 3	..	5 1 11	(A) 13,714 12 8	..	12,340 16 7	..	1,498 10 9	..	124 17 11	..
11. Wimmera United	(A) 288,622 11 8	965 12 11	314 14 5	26 17 11	(A) 13,714 12 8	..	289,588 4 7	314 14 5	9,865 14 7	..	3,875 16 0	..
12. Wychitella (proposed)	(A) 65,352 4 4	..	..	..	..	..	65,352 4 4	..	..	..	..	..
Totals	{ (A) 1,299,434 8 7 (B) 239,205 6 5	17,556 1 3	23,745 5 1	82 2 1	{ (A) 51,105 4 3 (B) 26,654 17 10}	43,028 6 0	1,556,195 16 3	23,745 5 1	20,616 10 1	41,812 7 8	31,786 14 7	26,654 17 10

The Districts set out hereunder are those whose works will not produce sufficient revenue to cover the expense of the maintenance and management thereof, and where water supplies are being continued by direction of the Governor in Council. The annual amount of loss resulting from the maintenance and management of these districts has been transferred to the "Revenue Expenditure Chargeable to the State Account." (By authority of Orders in Council, dated 30th June, 1938, and 21st October, 1941, respectively, under the provisions of Section 6, Water Act 1937, No. 4513.)

13. Birchip ..	(A) 141,326 2 2	381 13 5	..	0 3 3	{(A) 5,384 11 0 (B) 36,486 6 0 (A) 3,539 8 8	..	..	141,707 15 7	..	5,076 1 5	..	11,963 19 1	24,780 19 9	..
14. Garwarp ..	(A) 41,470 7 5	..	2,178 3 0	0 8 11	{(A) 78,581 11 7 (B) 763 19 2 (A) 3,605 17 0	..	..	41,470 7 5	738 3 0	2,961 4 3	..	27,053 6 1	53,546 18 10	..
15. Garwarp Central ..	(A) 2,363 1 10	..	188 9 10	..	{(A) 2,922 13 10 (B) 51,371 4 9 (A) 230 7 0	..	..	2,363 1 10	68 9 10	659 1 3	..	2,404 9 11	1,426 5 0	..
16. Coreena ..	(A) 46,101 11 10	..	7,215 2 5	..	{(A) 13,179 4 6 (B) 102,754 5 9	909 4 5	..	46,101 11 10	2,445 2 5	8,282 7 0	..	25,329 15 1	25,451 16 6	..
17. Hindmarsh ..	(A) 19,586 6 8	103 4 3	1,566 2 10	..	..	..	..	19,689 10 11	1,566 2 10	1,139 11 5	..	..	..	..
18. Karkaroo ..	(A) 316,543 9 10	..	..	4 19 4	..	..	..	316,543 9 10	..	11,486 17 2	..	63,186 15 4	41,284 17 1	..

Note.—Waterworks Districts' Balance Sheets continued on next page.

DISTRICT BALANCE SHEETS AS AT 30TH JUNE, 1946.

District.	Liabilities.						Assets.						Profit and Loss Account.			
	Capital borne by— (A) State. (B) District.		Redemption Account.	Depreciation Account.	Sundry Creditors.	Accumulated Deficiency Chargeable to— (A) District Account. (B) State Account.	Profit and Loss Account.		Works at Cost.	Water Supply Works Depreciation Fund.	Sundry Debtors.	Accumulated Surplus Credited to District Account.	Loss since 30th June, 1938, prior to Borne by State.	Interest and Other Losses prior to 30th June, 1938, Borne by State.		
							Gain.									
	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.
URBAN DISTRICTS.																
1. Allansford	{ (A) 1,729 11 5 (B) 824 2 8 }	16 10 3	93 8	..	..	(A) 6 2 2 (B) ..	43 17 10	205 5 6	2,568 2 5	93 8 3	52 1 11	..	..	..	..	..
2. Antwerp	{ (A) 444 18 4 (B) 257 15 4 }	12 18 2	25 0 0	0 19 8	..	..	205 5 6	714 18 4	714 18 4	25 0 0	14 17 11	192 0 9	..	..	..	..
3. Barwon Heads and Ocean Grove	{ (A) 33,170 14 10 (B) 8,048 1 4 }	306 11 2	1,474 10 0	2 4 7	..	..	1,329 7 5	41,483 19 0	41,483 19 0	1,474 10 0	556 19 0	816 1 4	..	..	..	..
4. Berrillock	{ (A) 5,168 9 7 (B) 3 9 8 }	24 13 8	159 16 9	0 17 1	(B) 216 18 8	..	467 0 11	5,196 12 11	5,196 12 11	159 16 9	14 12 6	453 5 6	..	..	216 18 8	..
5. Berwick	{ (A) 19,988 16 5 (B) 3,128 12 3 }	96 14 0	2,174 5 1	14 6 4	..	..	1,834 7 3	23,214 2 8	23,214 2 8	2,174 5 1	301 10 1	1,547 3 6	..	..	..	..
6. Birregurra	{ (A) 3,142 10 4 (B) .. }	..	..	..	..	..	..	3,142 10 4	..	..	..	..	..	..	..	..
7. Brim	{ (A) 3,191 17 5 (B) 332 8 6 }	40 18 7	327 3 9	0 16 0	..	..	690 5 10	3,564 5 10	3,564 5 10	327 3 9	103 2 1	588 18 5	..	..	..	..
8. Camperdown	{ (A) 40,552 2 3 (B) 55,182 13 5 }	1,290 4 6	4,671 17 4	4 12 6	..	..	2,273 10 8	96,605 13 8	96,605 13 8	4,671 17 4	349 12 0	2,347 17 8	..	..	..	..
9. Chelsea-Frankston	{ (A) 201,735 0 10 (B) 134,948 17 8 }	2,893 4 9	26,284 11 6	27 19 5	(B) 9,188 12 3	..	14,788 5 4	339,577 3 3	339,577 3 3	26,284 11 6	3,087 6 8	11,728 18 1	..	..	9,188 12 3	..
10. Cobden	{ (A) 12,334 18 2 (B) 12,912 1 2 }	326 19 1	1,124 15 0	9 12 6	..	..	282 8 2	25,480 11 2	25,480 11 2	1,124 15 0	226 9 3	158 18 8	..	..	..	..
11. Cranbourne	{ (A) 8,893 19 4 (B) 600 2 9 }	57 0 5	1,008 19 0	2 1 0	(B) 538 9 1	..	1,100 2 9	9,551 2 6	9,551 2 6	1,008 19 0	2 9 5	1,099 14 4	..	..	538 9 1	..
12. Culgoa	{ (A) 2,163 9 2 (B) 2,239 16 5 }	68 7 7	182 7 8	2 4 6	..	..	258 2 9	4,465 18 0	4,465 18 0	182 7 8	101 13 8	164 8 9	..	..	..	..
13. Dandenong	{ (A) 80,421 7 1 (B) 51,577 4 3 }	969 13 2	13,567 19 4	23 19 6	(B) 3,601 18 7	..	10,626 14 7	138,968 4 6	138,968 4 6	13,567 19 4	997 5 8	9,653 8 5	..	..	3,601 18 7	..
14. Dimboola	{ (A) 6,963 10 10 (B) 10,886 1 0 }	309 0 5	922 1 11	5 8 9	..	..	2,431 8 4	18,158 12 3	18,158 12 3	922 1 11	199 10 7	2,237 6 6	..	..	..	..
15. Dromana-Portsea	{ (A) 152,802 6 4 (B) 4,339 9 4 }	481 19 7	8,140 4 3	18 0 2	..	..	6,132 4 5	157,623 15 3	157,623 15 3	8,140 4 3	1,012 4 2	5,138 0 5	..	..	..	..
16. Jeparit	{ (A) 7,535 12 8 (B) 5,712 13 8 }	227 8 6	291 9 9	9 10 6	..	..	1,148 11 5	13,475 14 10	13,475 14 10	291 9 9	108 7 10	1,049 14 1	..	..	..	..
17. Longwarry	{ (A) 2,405 6 2 (B) 9,253 4 3 }	240 19 5	921 1 8	1 11 11	..	..	964 19 10	11,899 9 10	11,899 9 10	921 1 8	115 1 4	851 10 5	..	..	..	..
18. Marnoo	{ (A) 2,708 11 2 (B) 1,361 17 2 }	64 15 3	487 16 9	3 3 5	..	..	447 10 11	4,188 1 7	4,188 1 7	487 16 9	104 18 11	352 17 5	..	..	..	..
19. Merbein	{ (A) 14,452 8 8 (B) 4,178 13 7 }	277 12 0	1,301 13 9	0 7 3	{ (A) 204 12 10 (B) 510 10 1 }	..	9 17 4	18,792 11 4	18,792 11 4	1,301 13 9	331 0 4	..	..	..	510 10 1	..
20. Minyip	{ (A) 7,236 17 0 (B) 3,060 18 6 }	179 15 3	432 11 1	0 6 2	..	..	1,067 0 2	10,469 9 5	10,469 9 5	432 11 1	211 2 3	864 5 5	..	..	..	..
21. Mornington	{ (A) 23,634 17 10 (B) 53,077 6 6 }	1,222 19 4	5,855 16 11	9 19 6	..	..	12,447 9 4	77,835 3 8	77,835 3 8	5,855 16 11	630 6 11	11,827 1 11	..	..	..	..
22. Natimuk	{ (A) 836 11 0 (B) 4,057 19 0 }	94 15 1	499 9 5	1 7 8	..	..	543 2 4	4,979 17 9	4,979 17 9	499 9 5	64 6 5	489 10 11	..	..	..	..
23. Pakenham	{ (A) 8,970 0 1 (B) 9,686 11 6 }	295 9 11	2,254 3 10	10 5 1	..	..	1,863 15 11	18,952 1 6	18,952 1 6	2,254 3 10	227 15 8	1,646 5 4	..	..	..	..
24. Pyramid Hill	{ (A) 5,312 19 4 (B) 71,292 4 10 }	87 0 6	330 14 8	8 7 11	..	..	1,262 15 2	6,692 4 8	6,692 4 8	330 14 8	182 16 11	1,088 6 2	..	..	..	..
25. Queenscliff and Point Lonsdale	{ (A) 71,847 19 9 (B) 18,382 19 1 }	595 7 6	4,816 18 0	1 5 2	(A) 1,484 4 9	..	..	88,701 0 5	88,701 0 5	4,816 18 0	504 2 3	..	..	1,106 13 7	..	..
26. Rainbow	{ (A) 7,563 12 10 (B) 6,062 12 9 }	216 4 1	445 6 1	5 5 2	..	..	4,117 0 1	11,683 7 10	11,683 7 10	445 6 1	142 14 6	3,979 10 9	..	..	..	..
27. Rupanyup	{ (A) 4,202 15 7 (B) .. }	161 18 2	439 12 5	11 17 9	..	..	407 8 1	10,945 14 3	10,945 14 3	439 12 5	110 7 8	330 10 5	..	..	..	..

Note—Urban Districts Balance Sheets continued on next page.

DISTRICT BALANCE SHEETS AS AT 30TH JUNE, 1946.

District.	Liabilities.						Assets.							
	Capital borne by— (A) State. (B) District.	Redemption Account.	Depreciation Account.	Sundry Creditors.	Accumulated Deficiency Chargeable to— (A) District Account. (B) State Account.		Profit and Loss Account. Gain.	Works at Cost.	Water Supply Works Depreciation Fund.	Sundry Debtors.	Accumulated Surplus (Credited to District Accounts.	Profit and Loss Account.		
					£	s. d.						£	s. d.	Loss since 30th June, 1938, prior to Borne by State.
	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.
28. Somerville	{ (A) 2,965 0 5 (B) 4,595 8 4 }	121 16 4	583 8 9	5 18 6	..	923 6 11	7,683 5 1	583 8 9	..	56 4 3	873 1 2	..	..	..
29. South Frankston	{ (A) 21,134 0 8 (B) 25,859 9 11 }	716 15 1	2,103 16 0	4 13 10	..	4,967 10 1	47,710 5 8	2,103 16 0	..	333 12 7	4,638 11 4	..	..	..
30. Spring Vale	{ (A) 14,679 5 7 (B) 11,954 12 9 }	2,021 16 8	8,085 19 1	28 14 6	..	26,151 1 1	128,655 15 0	8,085 19 1	..	6,098 14 6	20,081 1 1	..	..	..
31. Terang	{ (A) 20,128 11 6 (B) 28,280 2 5 }	776 19 4	3,726 14 3	1 15 4	(A) 189 6 2 (B) 140 17 2	..	58,041 9 2	3,726 14 3	..	177 13 8	..	157 11 11	..	..
32. Watchem	{ (A) 4,940 8 3 (B) 125 6 10 }	36 1 5	380 6 6	3 13 10	(B) 140 17 2	177 7 7	5,101 0 3	380 6 6	..	149 18 6	31 19 2	..	140 17 2	..
Totals	{ (A) 806,929 4 1 (B) 575,956 14 6 }	14,232 9 2	93,113 18 9	221 5 6	{ (A) 1,884 5 11 (B) 14,197 5 10 }	98,961 18 0	1,396,122 4 4	93,113 18 9	..	16,568 19 5	84,230 7 11	1,264 5 6	14,197 5 10	..

URBAN DISTRICTS—continued.

The Districts set out hereunder are those whose works will not produce sufficient revenue to cover the expense of the maintenance and management thereof, and where water supplies are being continued by direction of the Governor in Council. The annual amount of loss resulting from the maintenance and management of these districts has been transferred to the "Revenue Expenditure Chargeable to the State Account." (By authority of Orders in Council, dated 30th July, 1938, 9th December, 1940, 23rd October, 1945, and 24th April, 1946, respectively, under the provisions of Section 6, Water Act 1937, No. 4513.)

33. Anglessea	{(A) 18,859 17 10 (B) 29 10 1}	1 11 1	557 5 3	0 12 6	(B) 1,777 0 2	..	18,890 16 7	557 5 3	..	22 4 2	..	116 15 2	1,638 15 9	..	..
34. Beulah	{(A) 7,573 6 6 (B) 2 13 2}	10 5 8	153 12 0	7 5 11	..	1,133 5 8	7,586 5 4	153 12 0	..	249 12 7	794 0 10	..	96 18 2	..	..
35. Birchip	{(A) 12,430 17 4 (B) 2 13 2}	12 12 3	816 0 8	3 13 8	{(A) 564 5 4 (B) 1,607 5 1}	..	12,443 9 7	648 0 8	..	155 14 8	..	1,314 3 0	873 6 5	..	..
36. Bittern	{(A) 2,874 6 8 (B) 15 13 3}	3 15 1	243 2 5	2 3 9	..	237 1 1	2,893 15 0	243 2 5	..	179 5 11	59 18 11	..	..	..	..
37. Bunyip	{(A) 11,844 14 3 (B) 26 6 3}	2 5 8	1,206 14 2	1 17 6	..	1,365 17 7	11,373 6 2	1,206 14 2	..	273 12 7	620 0 9	..	474 1 9	..	..
38. Carwarp	{(A) 635 19 0 (B) 2 6 3}	..	106 7 0	..	{(A) 318 7 11 (B) 262 3 8}	293 11 7	635 19 0	88 2 4	..	892 7 10	..	..	..	..	..
39. Chillingollah	{(A) 2,477 14 6 (B) 2 6 3}	8 14 5	99 12 5	..	{(A) 682 4 6 (B) 266 2 4}	44 7 10	2,486 8 11	99 12 5	..	773 16 7	..	..	218 18 1	..	..
40. Chinkapook	{(A) 2,551 11 7 (B) 2 6 3}	..	135 13 0	0 1 0	{(A) 68 7 0 (B) 589 7 9}	..	2,551 11 7	87 13 0	..	48 17 4	..	499 3 2	157 15 3	..	..
41. Crib Point	{(A) 9,582 12 8 (B) 2,340 12 3}	99 10 11	610 2 7	0 3 0	{(A) 92 13 9 (B) 39 15 3}	317 7 4	11,988 8 10	481 2 7	..	573 11 1	..	..	..	..	..
42. Doocen	{(A) 681 4 0 (B) 17 3 0}	0 0 5	109 15 4	0 12 6	..	116 9 8	698 7 5	109 15 4	..	26 12 8	..	..	130 4 9	..	..
43. Drysdale	{(A) 14,105 13 5 (B) 38 9 8}	7 19 3	826 3 0	6 4 10	..	975 5 0	14,152 0 5	826 3 0	..	133 7 3	321 8 5	..	326 16 1	..	..
44. Garfield	{(A) 8,759 10 2 (B) 27 8 9}	12 0 10	911 3 6	7 14 9	..	581 12 9	8,798 19 9	911 3 6	..	107 8 1	100 13 10	..	381 5 7	..	..
45. Hastings	{(A) 14,090 15 9 (B) 6 5 0}	12 1 0	1,296 15 3	4 0 3	{(A) 317 10 5 (B) 73 12 11}	93 15 6	14,109 1 7	1,296 15 3	..	40 5 6	..	..	448 13 9	..	..
46. Hopetoun	{(A) 10,534 16 9 (B) 24 0 0}	30 1 3	536 18 5	1 11 3	..	1,925 3 6	10,588 18 0	536 18 5	..	337 5 3	1,009 6 8	..	580 2 10	..	..
47. Jung Jung	{(A) 3,379 12 4 (B) 1 12 6}	..	430 11 10	..	{(A) 20 1 0 (B) 670 10 3}	..	3,381 4 10	303 4 10	..	22 0 6	..	255 14 10	540 2 11	..	..
48. Koondrook	{(A) 5,920 18 4 (B) 1 12 6}	..	563 6 3	0 8 7	{(A) 193 2 9 (B) 2,629 17 0}	..	5,920 18 4	196 16 9	..	337 14 10	..	2,445 5 9	408 17 3	..	..
49. Lake Boga	{(A) 5,815 1 11 (B) 95 11 3}	0 7 2	702 19 8	6 10 8	{(A) 404 7 6 (B) 963 17 2}	..	5,910 13 2	294 19 8	..	338 2 7	..	886 5 6	558 14 5	..	..

50. Labert	..	{(A)} {(B)}	4,540 2 9 1,300 7 0	34 4 10	259 16 4	..	{(A)} {(B)}	350 14 8 1,091 14 0	..	4,674 6 5	248 6 5	193 1 5	..	1,247 16 9	43 8 7
51. Lascelles	..	{(A)} {(B)}	4,225 13 11 1,177 9 5	5 9 7	194 12 5	2 7 3	{(A)} {(B)}	30 4 4 471 10 9	0 12 0	4,278 5 6	194 12 5	98 18 10	..	..	411 15 11
52. Manangatang	..	{(A)} {(B)}	3,503 3 1 1,673 14 0	89 16 3	250 10 3	2 0 0	{(A)} {(B)}	..	608 13 9	5,232 12 1	250 10 3	340 1 5	304 13 7	..	..
53. Morineur	..	{(A)} {(B)}	1,757 1 4 2,072 16 2	0 0 1	168 12 6	0 2 6	{(A)} {(B)}	131 15 6 220 0 1	73 2 5	1,761 8 0	142 12 6	451 0 7	..	..	..
54. Mitiamo	..	{(A)} {(B)}	1,749 13 11 3 5 0	2,982 17 4	587 18 9	5 11 9	{(A)} {(B)}	51 4 2 32 10 9	..	5,055 13 6	587 18 9	77 17 5	..	864 14 11	..
55. Nandaly	..	{(A)} {(B)}	5,800 5 2 1,763 13 10	..	45 13 7	..	{(A)} {(B)}	32 10 9 36 13 8	..	1,752 18 11	45 13 7	31 10 10	..	332 10 1	..
56. Newsstead	..	{(A)} {(B)}	3,370 15 4 280 16 6	101 11 11	505 10 8	..	{(A)} {(B)}	780 13 9 0 13 10	..	7,622 4 8	454 10 8	9 12 3	..	911 8 5	..
57. Nullawil	..	{(A)} {(B)}	643 14 5	37 13 10	25 17 11	0 2 2	{(A)} {(B)}	..	45 2 2	3,686 18 2	25 17 11	48 5 8	..	..	..
58. Nyah ..	..	{(A)} {(B)}	5,870 1 10	2 8 10	253 17 9	2 1 1	{(A)} {(B)}	..	122 2 10	646 3 3	253 17 9	60 6 7	15 14 6	..	48 2 10
59. Nyah West	..	{(A)} {(B)}	21,172 12 10 61 9 0	0 8 10	1,234 3 2	..	{(A)} {(B)}	..	923 14 9	5,870 10 8	1,234 3 2	385 5 10	538 8 11	..	..
60. Ouyen	..	{(A)} {(B)}	3,644 6 10 1 12 6	87 2 11	767 2 5	1 4 7	{(A)} {(B)}	..	2,058 12 10	21,321 4 9	767 2 5	931 1 5	1,128 16 0	..	..
61. Patchewollock	..	{(A)} {(B)}	6,160 16 10	0 1 4	80 14 1	2 15 0	{(A)} {(B)}	..	770 11 7	3,646 0 8	80 14 1	494 18 3	278 6 4	..	..
62. Piangil	..	{(A)} {(B)}	26,927 15 8 77 14 6	..	464 10 11	..	{(A)} {(B)}	163 2 4 101 9 6	232 2 11	6,100 16 10	352 6 10	507 9 4	..	..	..
63. Portarlington	..	{(A)} {(B)}	4,818 15 5 3 4 11	1 3 9	1,882 7 1	2 18 5	{(A)} {(B)}	3,218 14 3 ..	..	27,006 8 3	1,572 10 10	97 14 4	..	1,810 8 2	1,724 12 7
64. Quambatook	..	{(A)} {(B)}	6,179 6 6 2,838 19 1	19 18 1	429 2 2	4 2 9	{(A)} {(B)}	..	505 15 1	4,841 18 5	429 2 2	178 8 7	391 9 3	..	..
65. Sea Lake	..	{(A)} {(B)}	2,625 4 8 17 13 7	128 17 9	529 4 10	1 14 1	{(A)} {(B)}	217 12 5 60 18 5	1,475 18 7	7,823 5 3	529 4 10	298 0 2	1,197 14 10	..	..
66. Speed	..	{(A)} {(B)}	32,707 1 8 145 10 2	..	287 17 4	0 18 9	{(A)} {(B)}	47 13 2 111 14 0	..	2,839 16 10	287 17 4	89 6 5	..	190 3 2	..
67. Tempy	..	{(A)} {(B)}	6,560 19 0 17 6 8	0 0 5	251 14 7	3 17 6	{(A)} {(B)}	1,732 7 11 245 10 3	105 9 4	2,642 18 8	251 14 7	268 14 9	..	..	..
68. Torquay	..	{(A)} {(B)}	2,530 14 4	40 17 4	963 5 4	0 13 0	{(A)} {(B)}	816 0 6 80 12 9	204 19 3	32,892 17 10	963 5 4	183 3 11	..	..	1,755 7 7
69. Ultima	..	{(A)} {(B)}	2,011 11 10 24 5 8	0 0 5	188 14 4	0 2 6	{(A)} {(B)}	150 10 8 497 12 3	..	6,578 5 8	80 5 1	667 19 9	..	404 5 5	..
70. Waitechie	..	{(A)} {(B)}	4,848 13 8 1 12 6	..	172 14 0	..	{(A)} {(B)}	623 5 11 816 0 6	..	2,520 14 4	154 14 0	899 8 7	..	59 9 8	498 8 2
71. Walpeup	..	{(A)} {(B)}	64,109 7 5 9,162 13 2	6 5 11	478 3 8	0 2 9	{(A)} {(B)}	193 1 0 305 3 1	244 13 1	2,042 2 3	128 2 6	325 7 0	..	..	..
72. Werrimull	..	{(A)} {(B)}	1,394 5 6 590 1 5	3 3 6	4,822 16 8	21 5 2	{(A)} {(B)}	32 17 6 218 10 4	293 6 3	4,853 9 8	472 3 5	662 12 6	..	..	284 19 8
73. Wonthaggi	..	{(A)} {(B)}	2,294 12 6 3 14 4	36 18 10	649 6 11	3 2 6	{(A)} {(B)}	151 3 3 218 10 4	6,473 13 11	73,574 2 11	4,822 16 8	1,558 18 5	4,936 0 8	..	..
74. Woomelang	..	{(A)} {(B)}	..	26 3 6	194 7 8	0 0 1	{(A)} {(B)}	675 13 0 ..	..	9,283 3 11	649 6 11	66 15 1	..	..	805 1 5
75. Woorinen	..	{(A)} {(B)}	..	16 12 0	1,663 2 11	8 3 11	{(A)} {(B)}	..	..	2,008 19 8	194 7 8	310 1 0	..	29 10 5	..
76. Wycheproof	..	{(A)} {(B)}	..	3 16 8	71 14 8	1 2 6	{(A)} {(B)}	..	..	10,903 5 8	1,663 2 11	287 1 9	..	90 15 9	..
77. Yaaapeet	..	{(A)} {(B)}	..	..	..	..	{(A)} {(B)}	..	..	2,302 3 6	71 14 8	196 1 0	..	8 12 11	..
Totals	..	{(A)} {(B)}	376,054 12 9 18,155 0 9	4,129 1 3	26,857 18 2	107 6 5	{(A)} {(B)}	5,165 7 5 20,691 7 10	21,964 1 3	398,173 0 9	24,950 6 3	14,231 2 6	11,896 13 6	11,467 3 1	12,406 9 9
Grand Totals	..	{(A)} {(B)}	1,182,983 16 10 594,111 15 3	18,361 10 5	119,971 16 11	328 11 11	{(A)} {(B)}	7,049 13 4 34,888 13 8	120,925 19 3	1,794,295 5 1	118,064 5 0	30,800 1 11	96,127 1 5	12,731 8 7	26,603 15 7

£2,078,621 17s. 7d.

£2,078,621 17s. 7d.

DISTRICT BALANCE SHEETS AS AT 30TH JUNE, 1946.

District.	Liabilities.						Assets.											
	Capital Borne by State.	Depreciation Account.	Sundry Creditors.	Accumulated Deficiency Chargeable to— (A) District Account. (B) State Account.	Profit and Loss Account.		Works at Cost.	Water Supply Works Depreciation Fund.	Sundry Debtors.	Accumulated Surplus Credited to District Account.	Profit and Loss Account.							
					£	s.					d.	£	s.	d.	Loss since 30th June, 1938, prior to Borne by State.	£	s.	d.
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.						
1. Carrum	24,352	15	3	..	..	5 6 1	2,342 13 4	24,352 15 3	..	1,200 0 9	1,147 18 8	..				
2. Dingee (proposed)	248	17	1	..	..	..	..	248 17 1	..	..	..	..		
3. Tresco (proposed)	182	9	3	..	..	..	..	182 9 3	..	..	..	..		
Totals	24,784	1	7	..	..	5 6 1	2,342 13 4	24,784 1 7	..	1,200 0 9	1,147 18 8	..				

DRAINAGE DISTRICTS.

DRAINAGE DISTRICTS.

The Districts set out hereunder are those whose works will not produce sufficient revenue to cover the expense of the maintenance and management thereof. The annual amount of loss resulting from the maintenance and management of these districts has been transferred to the "Revenue Expenditure Chargeable to the State Account." (By authority of Order in Council, dated 14th June, 1943, under the provisions of Section 6, *Water Act* 1937, No. 4513.)

4. Cohuna	9,566 12 6	..	6 5 0	(B) 5,026 0 8	..	..	9,566 12 6	..	131 10 4	..	4,376 17 8	523 17 8
5. Kerang East.. .. .	821 17 11	..	1 4 5	..	2,634 0 6	..	821 17 11	..	920 12 9	1,289 13 2	..	424 14 0
6. Maffra-Sale	1,176 19 7	..	..	{(A) 2,505 4 11 (B) 5,255 10 6}	..	..	1,176 19 7	..	44 19 9	..	7,715 15 8	..
7. Merbein	747 13 6	4,973 15 7	..	{(A) 396 12 8 (B) 1,431 8 6}	..	..	747 13 6	4,939 19 6	4 1 0	..	1,621 13 5	236 2 10
8. Murrabit	2,449 7 8	..	0 7 10	{(B) 2,291 7 4	..	..	2,449 7 8	..	61 3 0	..	2,230 12 2	..
9. Nyah	10,829 19 7	389 10 11	..	(B) 86 6 2	..	..	10,829 19 7	325 5 7	2 4 4	..	148 7 2	..
10. Red Cliffs	1,218 5 8	8,125 1 7	0 0 9	(B) 826 10 8	..	..	1,218 5 8	8,125 1 7	66 10 10	..	606 13 5	153 7 2
11. Rochester	1,766 6 2	..	2 6 6	{(A) 917 0 1 (B) 9,404 1 6}	..	..	1,766 6 2	..	673 19 1	..	8,500 12 3	1,178 16 9
12. Rodney	4,947 6 2	..	..	{(A) 763 1 8 (B) 389 16 5}	..	..	4,947 6 2	..	451 4 0	..	376 9 10	325 4 3
13. Shepparton	16,397 16 8	..	..	{(A) 1,003 5 6 (B) 7,874 13 0}	..	..	16,397 16 8	..	98 18 9	..	8,376 8 1	402 11 8
14. Tongala-Stanhope	3,388 11 2	..	6 11 7	{(A) 2,327 9 9 (B) 22,245 14 7}	..	..	3,388 11 2	..	843 4 5	..	23,416 10 9	520 0 9
15. Werribee	168 19 2	..	1 0 0	..	820 2 2	..	168 19 2	..	41 10 11	735 15 0	..	43 16 3
16. Woorinen	684 19 6	1,360 11 7	0 9 2	(B) 1,844 12 11	..	..	684 19 6	1,360 11 7	18 11 6	..	1,826 10 7	..
Totals	54,164 15 3	14,848 19 8	18 5 3	{(A) 8,142 14 7 (B) 56,676 2 3}	3,454 2 8	..	54,164 15 3	14,750 18 3	3,358 10 8	2,025 13 2	59,196 11 0	3,808 11 4
Grand Totals	78,948 16 10	14,848 19 8	23 11 4	{(A) 8,142 14 7 (B) 56,676 2 3}	5,796 16 0	..	78,948 16 10	14,750 18 3	4,558 11 5	3,173 11 10	59,196 11 0	3,808 11 4

£104,437. 0s. 8d.

£104,437. 0s. 8d.

DISTRICT BALANCE SHEETS AS AT 30TH JUNE, 1946.

District.	Liabilities.						Assets.					
	Capital borne by State.	Redemption Account.	Depreciation Account.	Sundry Creditors.	Accumulated Deficiency Chargeable to State Account.	Profit and Loss Account.	Works at Cost.	Water Supply Works Depreciation Fund.	Sundry Debtors.	Accumulated Surplus Credit to District Account.	Profit and Loss Account.	
											Loss since 30th June, 1938.	Interest and Other Losses prior to 30th June, 1938, Borne by State.
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
1. Cardinia	5 15 2	3,303 19 2	7,307 3 1	105,293 11 11	..	1,629 4 1	5,683 14 2	..	3,303 19 2
2. Kanyapella	..	64 4 2	..	..	..	1,555 15 1	3,949 5 7	..	635 17 9	919 17 4	..	..
3. Loch Garry	3,409 11 8	18,621 18 11	..	1,018 15 6	2,390 16 2	..	..
4. Lower Kooweerup	11 19 3	7,949 1 8	7,033 0 0	275,894 12 6	..	2,237 10 3	4,807 9 0	..	7,949 1 8
Totals	..	64 4 2	..	17 14 5	11,253 0 10	19,305 9 10	403,759 8 11	..	5,521 7 7	13,801 16 8	..	11,253 0 10
£434,335 14s.												
£434,335 14s.												

FLOOD PROTECTION DISTRICTS.

STATEMENT OF REVENUE SETTING OUT ARREARS AS AT 1ST JULY, 1945, AND AS AT 30TH JUNE, 1946, RESPECTIVELY.

	Total.	Water Act 1940, (No. 4740), Sec. 3.		General Rate.		Irrigation Charge.		Drainage Rate.		Flood Protection Charge.		Sales of Water.		Meter Rent.	Miscellaneous.
		Consolidated Arrears.	Interest.	Rate.	Interest.	Charge.	Interest.	Rate.	Interest.	Charge.	Interest.	Sales.	Interest.		
	£	£	£	£	£	£	£	£	£	£	£	£	£	£	£
Arrears as at 1st July, 1945 ..	468,566	257,644	12,674	105,258	14,146	19,239	1,179	2,954	438	1,621	154	46,077	548	791	6,143
Assessments 1945-46 ..	518,023	..	..	266,309	..	223,330	..	21,026	..	7,358	..	..	..	..	..
Additional Water Sales, Meter Rents, and Interest Charges to 30th June, 1946 ..	166,558	..	4,528	..	6,980	..	1,324	..	182	..	137	118,011	682	2,866	31,848
Total Amount Collectable, 1945-46 ..	1,153,447	257,644	17,202	371,567	21,126	242,569	2,503	23,980	620	8,979	291	164,088	1,230	3,657	37,991
Deduct—															
(i) Revenue Collected 1945-46	684,931	26,641	521	247,137	3,062	216,173	1,137	20,916	118	7,552	107	126,978	606	2,332	31,651
(ii) Credits Absorbed ..	3,662	8	1	719	1	820	..	19	..	4	..	532	..	18	1,540
Balance ..	464,854	230,995	16,680	123,711	18,063	25,576	1,366	3,045	502	1,423	184	36,578	624	1,307	4,800
Add—Amounts Overpaid ..	3,241	3	7	490	6	784	..	12	..	11	1	380	2	53	1,492
Total = Gross Arrears at 30th June, 1946 ..	468,095	230,998	16,687	124,201	18,069	26,360	1,366	3,057	502	1,434	185	36,958	626	1,360	6,292
Deduct—Amounts recommended for Writing off 1945-46 ..	17,062	2,735	1,772	4,221	813	4,967	4	195	18	10	8	458	22	943	896
BALANCE = Net Arrears as at 30th June, 1946 ..	451,033	228,263	14,915	119,980	17,256	21,393	1,362	2,862	484	1,424	177	36,500	604	417	5,396

This Statement is subject to Audit and minor adjustments.

WATER SUPPLY WORKS DEPRECIATION ACCOUNTS AS AT 30TH JUNE, 1946.

District.	Balance at 1st July, 1945.	Amounts Paid into Account 1945-46.	Interest Credited 1945-46.	Total.	Expenditure 1945-46.	Balance in Account at 30th June, 1946.
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
IRRIGATION AND WATER SUPPLY DISTRICTS.						
Bacchus Marsh	172 13 10	18 0 0	4 6 4	195 0 2	..	195 0 2
Boort	256 7 10	27 0 0	6 8 2	289 16 0	..	289 16 0
Calivil	113 11 2	13 0 0	2 16 9	129 7 11	..	129 7 11
Cohuna-Leitchville ..	295 10 11	*8 12 6	2 11 3	306 14 8	..	306 14 8
Dingee	87 14 0	10 0 0	2 3 10	99 17 10	..	99 17 10
Katandra	104 16 5	12 0 0	2 12 5	119 8 10	..	119 8 10
Kerang	30 6 0	*18 7 6	0 15 2	49 8 8	..	49 8 8
Maffra-Sale	1,197 19 6	*137 7 0	29 19 0	1,365 5 6	..	1,365 5 6
Merbein	17,778 6 11	3,223 0 0	441 7 5	21,442 14 4	..	21,442 14 4
Murray Valley	244 10 9	*91 0 1	6 2 3	341 13 1	..	341 13 1
North Shepparton ..	250 11 10	26 0 0	6 5 4	282 17 2	..	282 17 2
Nyah	5,628 9 10	672 0 0	140 14 3	6,441 4 1	..	6,441 4 1
Red Cliffs	46,933 17 2	8,929 0 0	1,156 16 0	57,019 13 2	661 18 1	56,357 15 1
Rochester	1,162 2 5	*186 6 2	33 14 5	1,582 10 4	..	1,582 10 4
Rodney	1,348 18 1	*199 17 10	29 1 1	1,377 9 8	..	1,377 9 8
Shepparton	621 18 10	*130 5 6	15 11 0	767 15 4	..	767 15 4
South Shepparton ..	87 1 8	10 0 0	2 3 6	99 5 2	..	99 5 2
Swan Hill	3,696 18 10	*370 17 3	79 15 4	4,147 11 5	..	4,147 11 5
Tongala-Stanhope ..	1,022 16 4	*108 16 8	25 11 5	1,157 4 5	..	1,157 4 5
Tragowel Plains ..	598 0 7	69 0 0	14 19 0	681 19 7	..	681 19 7
Tresco	844 8 6	417 0 0	21 2 3	1,282 10 9	..	1,282 10 9
Werribee	779 3 7	*88 12 0	19 9 7	887 5 2	..	887 5 2
Totals	83,256 5 0	14,766 2 6	2,044 5 9	100,066 13 3	661 18 1	99,404 15 2

* Direct Contributions to Depreciation Fund—Cohuna-Leitchville, £8 12s. 6d.; Kerang, £18 7s. 6d.; Maffra-Sale, £7 7s.; Murray Valley, £91 0s. 1d.; Rochester, £69 6s. 2d.; Rodney, £71 17s. 10d.; Shepparton, £83 5s. 6d.; Swan Hill, £30 17s. 3d.; Tongala-Stanhope, £2 16s. 8d.; Werribee, £6 12s. Total, £390 2s. 6d.

URBAN DIVISIONS OF IRRIGATION AND WATER SUPPLY DISTRICTS.

Bacchus Marsh	1,096 7 10	126 0 0	27 8 2	1,249 16 0	..	1,249 16 0
Cohuna	532 6 8	99 0 0	13 5 7	644 12 3	1 1 8	643 10 7
Corop	52 12 4	6 0 0	1 6 4	59 18 8	..	59 18 8
Dingee	30 6 2	14 0 0	0 15 2	45 1 4	..	45 1 4
Heyfield	1,004 4 9	115 0 0	25 2 1	1,144 6 10	..	1,144 6 10
Leitchville	393 10 5	45 0 0	9 16 7	448 7 0	..	448 7 0
Lockington	366 7 5	61 0 0	9 3 2	436 10 7	..	436 10 7
Murrabit	66 16 6	33 0 0	1 13 5	101 9 11	..	101 9 11
Red Cliffs	1,263 18 2	193 0 0	31 2 0	1,488 0 2	19 18 10	1,468 1 4
Stanhope	225 12 3	35 0 0	5 12 10	266 5 1	..	266 5 1
Totals	5,032 2 6	727 0 0	125 5 4	5,884 7 10	21 0 6	5,863 7 4

WATERWORKS DISTRICTS.

Carwarp	486 0 0	240 0 0	12 3 0	738 3 0	..	738 3 0
Carwarp Central	47 9 7	20 0 0	1 0 3	68 9 10	..	68 9 10
Coreena	1,609 17 6	795 0 0	40 4 11	2,445 2 5	..	2,445 2 5
Harcourt	1 3 1	25 0 0	..	26 3 1	1 1 8	25 1 5
Hindmarsh	1,397 1 11	139 0 0	30 0 11	1,566 2 10	..	1,566 2 10
Long Lake	354 7 6	175 0 0	8 17 2	538 4 8	..	538 4 8
Millewa	5,565 12 11	2,988 0 0	133 14 11	8,687 7 10	215 15 3	8,471 12 7
Millewa Central	1,856 3 10	1,224 0 0	46 8 1	3,126 11 11	..	3,126 11 11
Mornington Peninsula ..	3,367 10 6	186 0 0	84 1 2	3,637 11 8	5 5 0	3,632 6 8
Otway	12,164 11 4	1,924 0 0	304 2 3	14,392 13 7	..	14,392 13 7
Tyntynder	43 1 0	21 0 0	1 1 6	65 2 6	..	65 2 6
Tyrrell	87 1 6	43 0 0	2 3 6	132 5 0	..	132 5 0
Tyrrell West	461 14 0	228 0 0	11 10 10	701 4 10	..	701 4 10
Upper Western Wimmera ..	169 1 2	..	..	169 1 2	..	169 1 2
Walpeup West	2,137 17 2	260 0 0	52 16 9	2,450 13 11	24 5 4	2,426 8 7
Western Wimmera	4,693 3 10	595 0 0	117 6 7	5,405 10 5	..	5,405 10 5
Wimmera United	274 17 0	33 0 0	6 17 5	314 14 5	..	314 14 5
Totals	34,716 13 10	8,896 0 0	852 9 3	44,465 3 1	246 7 3	44,218 15 10

URBAN DISTRICTS OF WATERWORKS DISTRICTS.

Allansford	71 12 5	20 0 0	1 15 10	93 8 3	..	93 8 3
Anglesea	489 0 9	56 0 0	12 4 6	557 5 3	..	557 5 3
Antwerp	22 11 3	2 0 0	0 8 9	25 0 0	..	25 0 0
Barwon Heads and Ocean Grove ..	1,166 6 10	279 0 0	29 3 2	1,474 10 0	..	1,474 10 0
Berriwillook	140 6 7	16 0 0	3 10 2	159 16 9	..	159 16 9
Berwick	1,933 1 11	263 0 0	46 12 4	2,242 14 3	68 9 2	2,174 5 1
Beulah	127 8 4	23 0 0	3 3 8	153 12 0	..	153 12 0
Birchip	550 5 6	84 0 0	13 15 2	648 0 8	..	648 0 8
Bittern	204 0 5	34 0 0	5 2 0	243 2 5	..	243 2 5
Brim	289 16 10	31 0 0	6 6 11	327 3 9	..	327 3 9
Bunyip	1,184 2 6	144 0 0	25 18 4	1,354 0 10	147 6 8	1,206 14 2
Camperdown	3,935 9 7	638 0 0	98 7 9	4,671 17 4	..	4,671 17 4
Carwarp	81 5 11	6 0 0	0 16 5	88 2 4	..	88 2 4
Chelsee-Frankston	28,056 3 0	3,458 0 0	556 14 11	32,070 17 11	5,786 6 5	26,284 11 6
Chillingollah	78 9 11	19 14 7	1 7 11	99 12 5	..	99 12 5

WATER SUPPLY WORKS DEPRECIATION ACCOUNTS AS AT 30TH JUNE, 1946—continued.

District.	Balance at 1st July, 1945.	Amounts Paid into Account 1945-46.	Interest Credited 1945-46.	Total.	Expenditure 1945-46.	Balance in Account at 30th June, 1946.
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
URBAN DISTRICTS OF WATERWORKS DISTRICTS—continued.						
Chinkapook	79 4 11	8 0 0	0 8 1	87 13 0	..	87 13 0
Cobden	946 1 11	155 0 0	23 13 1	1,124 15 0	..	1,124 15 0
Coliban	46,936 14 7	7,691 0 0	1,040 2 8	55,667 17 3	5,331 6 10	50,336 10 5
Cranbourne	885 16 1	101 0 0	22 2 11	1,008 19 0	..	1,008 19 0
Crib Point	343 10 10	129 0 0	8 11 9	481 2 7	..	481 2 7
Culgoa	160 8 9	18 0 0	3 18 11	182 7 8	..	182 7 8
Dandenong	11,823 10 7	1,455 0 0	295 8 9	13,573 19 4	6 0 0	13,567 19 4
Dimboola	748 7 9	155 0 0	18 14 2	922 1 11	..	922 1 11
Dooen	96 7 2	11 0 0	2 8 2	109 15 4	..	109 15 4
Dromana-Portsea	6,144 2 2	1,535 0 0	161 2 1	8,140 4 3	..	8,140 4 3
Drysdale	725 0 6	83 0 0	18 2 6	826 3 0	..	826 3 0
Garfield	781 12 9	111 0 0	19 10 4	912 3 1	0 19 7	911 3 6
Hastings	1,108 1 3	161 0 0	27 14 0	1,296 15 3	..	1,296 15 3
Hopetoun	464 6 3	61 0 0	11 12 2	536 18 5	..	536 18 5
Jeparit	246 6 7	39 0 0	6 3 2	291 9 9	..	291 9 9
Jung Jung	251 18 10	45 0 0	6 6 0	303 4 10	..	303 4 10
Koondrook	129 12 0	64 0 0	3 4 9	196 16 9	..	196 16 9
Lake Boga	223 10 10	68 0 0	3 8 10	294 19 8	..	294 19 8
Lalbert	211 19 1	42 0 0	5 0 8	258 19 9	10 13 4	248 6 5
Lascelles	169 7 9	21 0 0	4 4 8	194 12 5	..	194 12 5
Longwarry	908 6 2	113 0 0	19 14 2	1,041 0 4	119 18 8	921 1 8
Manangatang	212 4 2	33 0 0	5 6 1	250 10 3	..	250 10 3
Marnoo	447 12 0	33 0 0	7 4 9	487 16 9	..	487 16 9
Marong	336 1 3	39 0 0	8 8 0	383 9 3	..	383 9 3
Merbein	1,201 5 3	137 0 0	28 8 2	1,366 13 5	64 19 8	1,301 13 9
Meringur	127 9 8	13 0 0	2 2 10	142 12 6	..	142 12 6
Minyip	348 16 8	75 0 0	8 14 5	432 11 1	..	432 11 1
Mitiamo	809 11 5	39 0 0	13 7 9	852 19 2	265 0 5	587 18 9
Mornington	5,083 17 1	848 0 0	122 2 11	6,054 0 0	198 3 1	5,855 16 11
Nandaly	18 4 6	27 0 0	0 9 1	45 13 7	..	45 13 7
Natimuk	438 10 2	50 0 0	10 19 3	499 9 5	..	499 9 5
Newstead	393 13 10	51 0 0	9 16 10	454 10 8	..	454 10 8
Nullawil	15 10 2	10 0 0	0 7 9	25 17 11	..	25 17 11
Nyah	217 12 10	31 0 0	5 4 11	253 17 9	..	253 17 9
Nyah West	1,099 6 2	116 0 0	25 2 5	1,240 8 7	6 5 5	1,234 3 2
Ouyen	640 2 4	111 0 0	16 0 1	767 2 5	..	767 2 5
Pakenham	2,009 18 0	231 0 0	49 6 11	2,290 4 11	36 1 1	2,254 3 10
Patchewollock	62 19 6	17 0 0	0 14 7	80 14 1	..	80 14 1
Piangil	293 0 4	52 0 0	7 6 6	352 6 10	..	352 6 10
Portarlington	1,344 7 8	195 0 0	33 12 2	1,572 19 10	..	1,572 19 10
Pyramid Hill	284 12 4	39 0 0	7 2 4	330 14 8	..	330 14 8
Quambatook	376 14 9	43 0 0	9 7 5	429 2 2	..	429 2 2
Queenscliff and Point Lonsdale	4,237 18 6	514 0 0	104 19 0	4,856 17 6	39 19 6	4,816 18 0
Rainbow	387 12 3	48 0 0	9 13 10	445 6 1	..	445 6 1
Rupanyup	373 5 9	57 0 0	9 6 8	439 12 5	..	439 12 5
Sea Lake	443 3 3	75 0 0	11 1 7	529 4 10	..	529 4 10
Somerville	511 12 11	59 0 0	12 15 10	583 8 9	..	583 8 9
South Frankston	2,166 5 8	312 0 0	43 14 1	2,521 19 9	418 3 9	2,103 16 0
Speed	264 15 2	19 0 0	4 2 2	287 17 4	..	287 17 4
Springvale	7,091 6 8	865 0 0	176 2 5	8,132 9 1	46 10 0	8,085 19 1
Tempy	3,142 3 2	17 0 0	78 11 1	3,726 14 3	..	3,726 14 3
Terang	231 0 4	506 0 0	3 14 3	251 14 7	..	251 14 7
Torquay	845 2 9	97 0 0	21 2 7	963 5 4	..	963 5 4
Ultima	43 3 6	36 0 0	1 1 7	80 5 1	..	80 5 1
Waitchie	133 7 4	18 0 0	3 6 8	154 14 0	..	154 14 0
Walpeup	112 6 4	13 0 0	2 16 2	128 2 6	..	128 2 6
Watchem	337 13 0	35 0 0	7 13 6	380 6 6	..	380 6 6
Werrimull	421 3 6	42 0 0	8 19 11	472 3 5	..	472 3 5
Wonthaggi	4,700 4 5	414 0 0	90 9 9	5,204 14 2	381 17 6	4,822 16 8
Woomelang	570 1 10	65 0 0	14 5 1	649 6 11	..	649 6 11
Woorinen	174 19 2	16 0 0	3 8 6	194 7 8	..	194 7 8
Wycheproof	1,488 15 10	143 0 0	31 7 1	1,663 2 11	..	1,663 2 11
Yaapeet	156 6 3	18 0 0	1 6 2	175 12 5	103 17 9	71 14 8
Totals	155,599 6 2	22,698 14 7	3,518 2 9	181,816 3 6	13,031 18 10	168,784 4 8

DRAINAGE DISTRICTS.

Merbein	4,297 10 9	535 0 0	107 8 9	4,939 19 6	..	4,939 19 6
Nyah	224 13 3	95 0 0	5 12 4	325 5 7	..	325 5 7
Red Cliffs	7,069 6 11	879 0 0	176 14 8	8,125 1 7	..	8,125 1 7
Woorinen	1,119 11 9	213 0 0	27 19 10	1,360 11 7	..	1,360 11 7
Totals	12,711 2 8	1,722 0 0	317 15 7	14,750 18 3	..	14,750 18 3
Grand Totals	291,315 10 2	48,809 17 1	6,857 18 8	346,983 5 11	13,961 4 8	333,022 1 3

**RECONCILIATION OF WATER SUPPLY WORKS DEPRECIATION ACCOUNT WITH WATER
SUPPLY WORKS DEPRECIATION FUND (ACT 3801 AS AMENDED BY ACT 4513).**

Water Supply Works Depreciation Account.				Water Supply Works Depreciation Fund (in Treasury).					
	£	s.	d.	£	s.	d.	£	s.	d.
Balance from 1944-45	..	..		290,514	18	9	Credit Balance as at 30th June, 1945	..	62,844 7 5
Paid into Account 1945-46	..	48,419	14 7				Less Expenditure 1945-46	..	13,961 4 8
Paid by Commission direct to Fund 1945-46	..	1,190	13 11						
				49,610	8	6			
				340,125	7	3			
Interest Credited 1945-46	..	..		6,857	18	8			
				346,983	5	11			
Less Expenditure 1945-46	..	..		13,961	4	8			
				333,022	1	3			
									</

WATER SUPPLY PLANT AND MACHINERY ACCOUNT (ACT 4761).

SUMMARY OF CAPITAL TRANSACTIONS FOR YEAR ENDED 30TH JUNE, 1946.

	£	s.	d.	£	s.	d.
Plant and Machinery—						
Debit Balance in Account as at 30th June, 1945	33,669	8	4			
Add—Purchases of Plant during 1945-46	38,659	1	2			
				72,328	9	6
				132	10	0
Deduct—Redemption paid to Treasury 30th June, 1946						72,195 19 6
Plant and Machinery Depot and Workshops at Bendigo—						
Establishment Expenditure during 1945-46	402	10	1			
Deduct—Redemption paid to Treasury 30th June, 1946		10	1			
						402 0 0
Total Capital Liability						72,597 19 6

Note.—Interest paid to Treasury in respect to Capital Liability of Plant and Machinery Account.

Plant and Machinery—						
Payments to 30th June, 1945	10,273	4	7			
Amount due and paid for year 1945-46	1,794	5	10			
						12,067 10 5
Depot and Workshops—						
Amount due and paid for year 1945-46						6 0 9
						12,073 11 2

SUMMARY OF OPERATING TRANSACTIONS FOR YEAR ENDED 30TH JUNE, 1946.

	£	s.	d.	£	s.	d.		£	s.	d.	£	s.	d.
Amounts charged on moneys authorized for carrying out construction and maintenance of Commission works on which plant and machinery were engaged—							Interest due for year paid to Revenue No. 2, to 30th June, 1946	..			1,800	6	7
Interest with respect to Capital Liability of—							Redemption paid to Revenue No. 9, Miscellaneous, to 30th June, 1946	..			133	0	1
As at 30th June, 1946,							Water Supply Plant and Machinery Depreciation Fund (in Treasury)	9,720	4	4			
£72,195 19s. 6d. ..	2,280	18	0				Interest on Fund Investment ..	1,353	0	5			
Redemption	142	11	8								11,073	4	9
Depreciation	9,720	4	4				Cost of Operation, Maintenance, and Repairs				14,195	8	11
Cost of Operation, Maintenance and Repairs	12,099	0	9				Stores Suspense Account Reserve ..				11,472	6	6
				24,242	14	9							
Interest—Depreciation Fund Investment				1,353	0	5							
Balance from 1944-45				13,078	11	8							
				38,674	6	10					38,674	6	10

RECONCILIATION OF WATER SUPPLY PLANT AND MACHINERY DEPRECIATION ACCOUNT WITH WATER SUPPLY PLANT AND MACHINERY DEPRECIATION FUND (ACT 4761).

Water Supply Plant and Machinery Depreciation Account.

	£	s.	d.	£	s.	d.
Credit Balance as at 30th June, 1945	..			54,120	18	2
Paid into Account 1945-46—						
Proceeds from Hire of Plant ..	9,720	4	4			
Interest credited for year 1945-46	1,353	0	5			
				11,073	4	9
Less expenditure for replacement of Plant during year 1945-46 ..	2,114	0	11			
				8,959	3	10
				63,080	2	0

Water Supply Plant and Machinery Depreciation Fund (in Treasury).

	£	s.	d.	£	s.	d.
Balance as per Treasury General Account as at 30th June, 1945	..			17,725	17	8
Less Amount transferred by Treasury to Investment Account during 1945-46				15,000	0	0
				2,725	17	8
Payments to Fund during 1945-46	9,720	4	4			
Interest credited by Treasury on Investments for year 1945-46..	947	18	10			
				10,668	3	2
Less Withdrawal for replacement of Plant	2,114	0	11			
				8,554	2	3
Balance as per Treasury General Account as at 30th June, 1946	..			11,279	19	11
Amount invested in Treasury Investment Account				50,000	0	0
Interest earned but not yet transferred to Fund—						
As at 30th June, 1945 ..	2,532	13	11			
Earned for year 1945-46 ..	1,353	0	5			
				3,885	14	4
Less amount credited to Fund by Treasury—						
As at 30th June, 1945 ..	1,137	13	5			
Cr. for year 1945-46 ..	947	18	10			
				2,085	12	3
				1,800	2	1
				63,080	2	0

CAPITAL EXPENDITURE.

STATEMENT OF MONEYS EXPENDED FROM STATE FUNDS UNDER WATER SUPPLY LOAN ACTS FOR THE
YEAR ENDED 30TH JUNE, 1946.

Works.	Water Supply Loan Funds.					
	Act 5048.		Act 5099.		Total.	
	£	s. d.	£	s. d.	£	s. d.
<i>Free Headworks.</i>						
Goulburn Weir .. .. .	..	..	19 11 0		19 11 0	
Kow Swamp Works	1,311	6 5	2,100 16 4		3,412 2 9	
North West Lakes .. .. .	..	..	55 18 1		55 18 1	
<i>Main Supply Works.</i>						
Cairn Curran Reservoir	879	6 10	6,659 2 1		7,538 8 11	
Eildon Reservoir Enlargement	8,696	1 8	12,239 10 2		20,935 11 10	
Eppalock Reservoir	193	10 11	388 18 6		582 9 5	
Glenelg River to Wimmera-Mallee, Section 1	Cr. 2	3 4	679 3 10		677 0 6	
Glenmaggie Weir	636	2 4	717 5 10		1,353 8 2	
Goulburn-Waranga Channel Duplication	1,041	2 6	1,771 4 9		2,812 7 3	
Lauriston Reservoir	95	18 9	630 0 0		725 18 9	
Melton Reservoir	39	15 3	11 1 2		50 16 5	
Plant and Machinery	9,903	18 0	29,157 13 3		39,061 11 3	
Pyke's Creek Reservoir	338	14 8	..		338 14 8	
Rocklands Reservoir	607	0 6	31,746 5 3		32,353 5 9	
Rocklands Outlet Channel .. .. .	..	..	3,354 7 2		3,354 7 2	
Surveys and Investigations	7,465	5 11	16,021 18 8		23,487 4 7	
Toolondo Outlet Channel	448	16 10	8,985 3 10		9,434 0 8	
Torrumbarry System (excluding Weir)	120	5 3	1,662 0 7		1,782 5 10	
Waranga-Western Channel	1	1 10	..		1 1 10	
Wimmera Main Channels .. .. .	..	..	253 10 10		253 10 10	
<i>Irrigation and Water Supply Districts.</i>						
Bacchus Marsh	34	14 1	139 16 9		174 10 10	
Boort	79	7 2	6 3 6		85 10 8	
Calivil .. .. .	..	..	0 12 2		0 12 2	
Campaspe	93	2 6	70 1 11		163 4 5	
Cohuna	45	8 8	532 3 6		577 12 2	
Deakin	1	10 6	109 9 11		111 0 5	
Katandra	9	14 5	0 12 3		10 6 8	
Kerang	17	10 4	484 15 1		502 5 5	
Koondrook	25	17 8	184 14 10		210 12 6	
Maffra-Sale	621	18 9	3,184 6 4		3,806 5 1	
Merbein	6	10 11	0 12 3		7 3 2	
Murray Valley	37,953	17 7	63,285 8 4		101,239 5 11	
Mystic Park	1	12 4	52 4 0		53 16 4	
Nambrook-Denison (under construction)	3,234	0 6	3,659 17 10		6,893 18 4	
North Shepparton	3	12 11	8 14 5		12 7 4	
Nyah .. .. .	..	..	14 19 5		14 19 5	
Red Cliffs	166	10 9	0 12 3		167 3 0	
Rochester	369	13 6	390 16 9		760 10 3	
Rodney	105	4 3	448 14 11		553 19 2	
Shepparton	21	12 4	14 1 8		35 14 0	
South Shepparton .. .. .	..	..	4 4 2		4 4 2	
Swan Hill	96	14 10	43 12 5		140 7 3	
Tongala-Stanhope	111	19 11	235 1 6		347 1 5	
Tragowel Plains	186	1 6	934 12 6		1,120 14 0	
Tresco	0	11 0	27 12 3		28 3 3	
Werribee	1	12 10	0 12 3		2 5 1	
<i>Urban Divisions of Irrigation and Water Supply Districts.</i>						
Bacchus Marsh .. .. .	..	..	4 5 0		4 5 0	
Dingee .. .. .	..	..	82 0 8		82 0 8	
Heyfield	3	2 2	444 0 5		447 2 7	
Red Cliffs .. .. .	..	..	17 18 4		17 18 4	
Tallygaroopna	28	14 8	27 1 8		55 16 4	
<i>Waterworks Districts.</i>						
Bellarine Peninsula (including Headworks)	5,538	8 9	4,066 8 4		9,604 17 1	
Birchip	0	11 0	9 2 6		9 13 6	
Hindmarsh	3	10 1	..		3 10 1	
Karkaroc	40	10 11	30 15 7		71 6 6	
Kerang North-west Lakes .. .. .	..	..	11 18 4		11 18 4	
Long Lake	12	0 5	17 10 0		29 10 5	
Millewa .. .. .	..	..	10 16 9		10 16 9	
Mornington Peninsula (including Headworks)	1,694	8 10	1,058 0 2		2,752 9 0	
Normanville	332	14 1	785 5 11		1,118 0 0	
Otway	640	7 0	1,343 8 9		1,983 15 9	
Sea Lake	16	16 9	49 13 8		66 10 5	
Tyntynder	14	11 8	33 5 4		47 17 0	
Tyrrell	0	11 0	12 1 2		12 12 2	
Tyrrell West .. .. .	..	..	0 12 2		0 12 2	
Upper Western Wimmera	1	4 7	40 17 10		42 2 5	
Upper Wimmera United	311	2 4	311 14 1		622 16 5	
Western Wimmera	23	13 3	88 15 4		112 8 7	
Wimmera United	995	2 3	3,557 5 6		4,552 7 9	
Wycheproof	19	17 6	12 6 7		32 4 1	
Wycheproof (under construction)	145	11 5	40,825 13 3		40,971 4 8	
Carried forward	84,788	2 3	243,129 1 10		327,917 4 1	

CAPITAL EXPENDITURE—continued.

STATEMENT OF MONEYS EXPENDED FROM STATE FUNDS UNDER WATER SUPPLY LOAN ACTS FOR THE
YEAR ENDED 30TH JUNE, 1946—continued.

Works.	Water Supply Loan Funds.					
	Act 5048.		Act 5099.		Total.	
	£	s. d.	£	s. d.	£	s. d.
Brought forward	84,788	2 3	243,129	1 10	327,917	4 1
<i>Urban Districts of Waterworks Districts.</i>						
Anglesea	14	18 10	18	15 0	33	13 10
Barwon Heads and Ocean Grove	80	4 9	175	17 1	256	1 10
Berwick	197	11 2	195	16 9	393	7 11
Beulah .. .. .	..	..	4	3 5	4	3 5
Birchip .. .. .	..	..	23	11 8	23	11 8
Birregurra .. .. .	..	..	3,142	10 4	3,142	10 4
Bunyip	3	12 1	11	13 4	15	5 5
Camperdown	13	2 6	178	11 1	191	13 7
Chelsea—Frankston	2,950	17 2	3,903	4 6	6,854	1 8
Cobden .. .. .	..	..	607	14 5	607	14 5
Coliban	1,289	18 8	16,889	12 10	18,179	11 6
Cranbourne	10	16 8	65	4 10	76	1 6
Crib Point	40	16 9	63	19 1	104	15 10
Culgoa .. .. .	..	..	9	15 0	9	15 0
Dandenong	86	16 9	170	18 7	257	15 4
Dimboola .. .. .	..	..	19	11 11	19	11 11
Dromana—Portsea	29	9 7	254	14 1	284	3 8
Drysdale .. .. .	..	..	42	9 9	42	9 9
Garfield	8	2 4	1	3 3	9	5 7
Hastings .. .. .	..	..	5	12 3	5	12 3
Hopetoun .. .. .	..	..	53	11 0	53	11 0
Jeparit .. .. .	..	..	7	8 8	7	8 8
Koondrook .. .. .	..	..	97	12 10	97	12 10
Lalbert .. .. .	..	..	7	11 8	7	11 8
Lascelles	2	15 0	3	9 1	6	4 1
Longwarry	3	11 1	17	17 8	21	8 9
Manangatang .. .. .	..	..	7	11 8	7	11 8
Marnoo .. .. .	..	..	10	11 8	10	11 8
Minyip	12	0 11	38	13 4	50	14 3
Mornington	247	12 2	294	7 8	541	19 10
Natimuk .. .. .	..	..	7	11 8	7	11 8
Nyah .. .. .	..	..	8	19 8	8	19 8
Nyah West .. .. .	..	..	2	11 7	2	11 7
Ouyen .. .. .	..	..	15	3 4	15	3 4
Pakenham	255	3 8	35	7 10	290	11 6
Patchewollock .. .. .	..	..	6	19 6	6	19 6
Partarlington	33	14 8	146	7 9	180	2 5
Pyramid Hill	35	7 1	2	5 0	37	12 1
Queenscliff and Point Lonsdale	551	12 2	690	19 11	1,242	12 1
Rainbow	8	5 0	30	1 1	38	6 1
Rupanyup	9	11 6	7	11 8	17	3 2
Sea Lake .. .. .	..	..	9	5 6	9	5 6
Somerville .. .. .	..	..	21	19 8	21	19 8
South Frankston	13	8 10	83	5 11	96	14 9
Speed .. .. .	..	..	4	3 10	4	3 10
Spring Vale	185	2 7	290	16 5	475	19 0
Terang	93	14 3	103	4 8	196	18 11
Torquay	11	3 4	75	0 4	86	3 8
Ultima .. .. .	..	..	1	17 4	1	17 4
Watchem	0	11 0	10	0 0	10	11 0
Wonthaggi	111	9 8	229	3 9	340	13 5
Woomelang .. .. .	..	..	13	13 8	13	13 8
Woorinen .. .. .	..	..	13	13 8	13	13 8
Wycheproof .. .. .	..	..	9	15 0	9	15 0
<i>Flood Protection Districts.</i>						
Cardinia	1	15 6	0	18 4	2	13 10
Lower Koo-wee-rup	2,309	12 4	1,917	14 4	4,227	6 8
<i>Drainage Districts.</i>						
Cohuna	2	14 10	98	2 2	100	17 0
Dingee .. .. .	..	..	248	17 1	248	17 1
Kerang East	33	18 6	536	1 11	570	0 5
Maffra—Sale	43	0 2	168	16 7	211	16 9
Merbein	107	4 1	220	16 10	328	0 11
Nyah	3,094	12 10	2,562	7 8	5,657	0 6
Red Cliffs	336	4 0	317	1 7	653	5 7
Rochester	530	1 10	38	15 3	568	17 1
Rodney	115	3 8	472	11 11	587	15 7
Shepparton	185	19 1	212	2 1	398	1 2
Tongala—Stanhope .. .. .	..	..	5	0 0	5	0 0
Waterworks Trusts and Local Governing Bodies	19,717	0 2	37,266	12 6	56,983	12 8
Totals	117,566	19 5	315,338	13 3	432,905	12 8

LOAN CAPITAL ACCOUNTS.

WORKS UNDER CONTROL OF COMMISSION.

The following statement gives a brief description, summary of Loan Capital expenditure under Loan Application Acts, and other particulars relative to the undermentioned works.

A.—FREE HEADWORKS.		Expenditure.	Totals at 30th June, 1946.	
		£ s. d.	£	s. d.
Broken River Works. —Casey's Weir and offtake, with about 59 chains of channel to the Broken Creek; Gowangardie Weir with offtake sluice		14,832 15 0		
Goulburn River Works. —Weir on the Goulburn River, about 9 miles above Murchison; channel therefrom, about 23½ miles, to Waranga Reservoir; and that Reservoir (but exclusive of the work of its enlargement)		740,022 9 2		
Kerang North-West Lakes Works. —Weir on the Loddon River at its confluence with the Pyramid Creek; regulating weirs at the effluence from the Loddon of the Sheepwash and Washpen Creeks; channel from the Washpen Creek regulator to Reedy Lake, Middle Lake, Third Lake, Lake Charm, Racecourse Lake, Cullen's Lake, Kangaroo Lake, and Lake Tutchevop, and to the Little Murray River, with water storage works at these lakes		26,671 12 10		
Kow Swamp Works. —Intake from the River Murray with regulator, at the effluence of the Gunbower Creek; channel thence to the Kow Swamp Reservoir; and that Reservoir; channel along the northern side of the reservoir; channel from the outlet of the reservoir, about 23½ miles, to the left bank of the Loddon River		197,728 11 8		
Lake Lonsdale Reservoir. —Reservoir at Lake Lonsdale, on the Little Wimmera River, near Ledcourt		49,057 4 2		
Loddon River Works. —Laanecoorie Weir, on the Loddon; Bridgewater Weir, on the Loddon; Kinypaniel Weir, on the Loddon		173,366 13 10		
Long Lake Pumping Works. —Inlet to Lake Baker, from the Little Murray River; water storage works at Lake Baker and Long Lake, with channel connecting these lakes; pumping plant at Long Lake, with rising main thence about 7 miles to allotment 10M, parish of Kooen; system of main distributary channels, about 85 miles in length		27,305 18 5		
Lower Wimmera Compensation Works. —Drung Drung Weir, on the Wimmera, near allotment 29, parish of Longerenong; Dimboola Weir, on the Wimmera, near Dimboola township; Antwerp Weir, on the Wimmera at Antwerp Station homestead; Jeparit Weir on the Wimmera, near Jeparit township		8,663 12 3		
			1,237,648	17 4
B.—CAPITAL WORKS AND CHARGES NOT APPORTIONABLE TO DISTRICTS.				
Geelong (inclusive of Loan Flotation Expenses)		161,851 0 10		
Eppalock Reservoir		112,543 18 7		
Goulburn Levees		30,797 0 4		
Torrumbarry System (excluding Weir)		8,366 11 5		
Lang Lang River Works		48,543 8 9		
Surveys and Preliminary Investigations		274,724 17 9		
Loan Flotation Expenses		988,601 4 5		
Plant and Machinery Suspense		72,597 19 6		
			1,698,026	1 7

C.—HEADWORKS (EXCLUSIVE OF FREE HEADWORKS).
IN RESPECT OF IRRIGATION AND WATER SUPPLY DISTRICTS AND WATERWORKS DISTRICTS.

Goulburn and Loddon Storages (exclusive of Free Headworks)—				£	s.	d.	£	s.	d.
Investigations	..	..	..	6,534	7	4			
Eildon Reservoir	..	..	..	1,900,241	11	2			
Eildon Reservoir Enlargement (Proposed—Not Apportioned to Districts)	..	..	..	20,935	11	10			
Waranga Reservoir Enlargement	..	..	..	609,128	16	4			
Laanecoorie Weir Improvements	..	..	..	2,509	9	3			
Cairn Curran Reservoir (Under construction—Not apportioned to districts)	..	..	..	25,523	8	11			
							2,564,873	4	10
Goulburn Main Channels—									
East Goulburn Main	..	..	..	363,962	18	7			
Goulburn-Waranga	..	..	..	6,922	8	4			
Goulburn-Waranga Duplication (Proposed—Not Apportioned to Districts)	..	..	..	2,812	7	3			
Waranga-Western Main	..	..	..	1,047,525	10	6			
Main Distributaries	..	..	..	10,635	13	0			
							1,431,858	17	8
Total Goulburn and Loddon Works (exclusive of Free Headworks)				..	..		3,996,732	2	6
Less Debited to Wimmera-Mallee				..	..		100,119	6	0
									3,896,612 16 6
Bacchus Marsh and Werribee Schemes—									
Ballan Tunnel	..	..	..	..	..		21,677	14	8
Pykes Creek Reservoir	..	..	..	..	..		142,673	10	3
Melton Reservoir	..	..	..	..	..		99,909	4	7
Lerderberg River Flats	..	..	..	..	..		330	0	8
									264,590 10 2
Bellarine Peninsula Waterworks District (exclusive of cost of Urban Reticulation)				..	..		481,401	12	7
Less Redemption paid to Revenue				..	..		1,674	11	4
									479,727 1 3
Mornington Peninsula Waterworks District (exclusive of cost of Distributary Works and Urban Reticulation)				..	..		996,178	5	5
Less Redemption paid to Revenue				..	..		1,111	12	10
									995,066 12 7
Maffra Sale Scheme—Glenmaggie Reservoir				..	..		..		680,509 10 0
River Murray Agreement Works (Victorian Contributions under River Murray Waters Acts)				..	..		..		2,990,745 13 8
River Murray State Works—Surveys, &c.				..	..		..		7,506 18 7
Otway Waterworks District (exclusive of cost of Urban Reticulation)				..	..		259,631	4	7
Less Redemption Paid to Revenue				..	..		1,955	5	5
									257,675 19 2
Wimmera-Mallee—									
Main Channels and Storages inclusive of £100,119 6s. 0d. from Goulburn Works				..	..		948,494	12	3
Glenelg River Development Works (Under Construction, Not Apportioned to Districts)				..	..		231,048	2	10
							1,179,542	15	1
									10,751,977 17 0
Carried forward				..	..				13,687,652 15 11

LOAN CAPITAL ACCOUNTS—continued.

Totals at
30th June, 1946.
£ s. d.
13,687,652 15 11

Brought forward ..

Name of District.	Loan Capital Expenditure.						Allotted to District.		Capital Expenditure borne by the State Account.							
	Headworks.			Distributary Works.					Headworks.			Distributary Works.				
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	
D.—IRRIGATION AND WATER SUPPLY DISTRICTS.																
1. Bacchus Marsh	..	82,998	11	11	96,075	10	9	..	..	82,998	11	11	96,075	10	9	179,074 2 8
2. Boort	..	170,720	10	9	79,875	9	4	..	..	170,720	10	9	79,875	9	4	250,596 0 1
3. Calivil	..	81,859	8	3	112,891	19	5	..	..	81,859	8	3	112,891	19	5	194,751 7 8
4. Campaspe	..	5,044	10	10	13,150	10	10	..	..	5,044	10	10	13,150	10	10	18,195 1 8
5. Cohuna	..	500,500	8	1	326,433	3	1	..	..	500,500	8	1	326,433	3	1	826,933 11 2
6. Deakin	..	37,015	13	6	58,269	5	0	..	..	37,015	13	6	58,269	5	0	95,284 18 6
7. Dingee	..	58,425	9	3	15,359	5	9	..	..	58,425	9	3	15,359	5	9	73,784 15 0
8. Fish Point	..	21,707	0	0	15,804	11	8	..	..	21,707	0	0	15,804	11	8	37,511 11 8
9. Katandra	..	75,229	6	3	105,534	11	10	..	..	75,229	6	3	105,534	11	10	180,763 18 1
10. Kerang	..	251,516	0	0	130,282	15	9	..	..	251,516	0	0	130,282	15	9	381,798 15 9
11. Koondrook	..	247,864	0	0	219,666	2	1	..	..	247,864	0	0	219,666	2	1	467,530 2 1
12. Maffra-Sale	..	680,509	10	0	530,397	18	1	..	..	680,509	10	0	530,397	18	1	1,270,907 8 1
13. Merbein	..	195,760	0	0	275,007	17	8	..	..	195,760	0	0	275,007	17	8	470,767 17 8
14. Murray Valley	..	897,294	4	6	794,175	13	5	..	..	897,294	4	6	794,175	13	5	1,691,469 17 11
15. Mystic Park	..	39,419	19	8	18,025	3	1	..	..	39,419	19	8	18,025	3	1	57,445 2 9
16. Nambrook-Denison	6,893	18	4	..	..	..	..	..	6,893	18	4	6,893 18 4
17. North Shepparton	..	158,786	4	7	199,693	3	10	..	..	158,786	4	7	199,693	3	10	358,479 8 5
18. Nyah	..	74,857	0	0	130,044	12	6	..	..	74,857	0	0	130,044	12	6	204,901 12 6
19. Red Cliffs	..	283,152	0	0	793,165	18	8	..	..	283,152	0	0	793,165	18	8	1,076,317 18 8
20. Rochester	..	846,990	8	4	340,439	18	11	..	..	846,990	8	4	340,439	18	11	1,187,430 7 3
21. Rodney	..	910,538	12	9	577,996	6	2	..	..	910,538	12	9	577,996	6	2	1,488,534 18 11
22. Shepparton	..	288,150	18	9	198,456	7	5	..	..	288,150	18	9	198,456	7	5	486,607 6 2
23. South Shepparton	..	59,034	19	3	59,432	0	3	..	..	59,034	19	3	59,432	0	3	118,516 19 6
24. Swan Hill	..	293,437	0	0	185,476	9	6	..	..	293,437	0	0	185,476	9	6	478,913 9 6
25. Third Lake	..	25,637	0	0	25,300	10	11	..	..	25,637	0	0	25,300	10	11	50,937 10 11
26. Tongala-Stanhope	..	646,606	12	5	296,804	6	4	..	..	646,606	12	5	296,804	6	4	943,410 18 9
27. Tragowel Plains	..	508,888	13	7	260,240	0	10	..	..	508,888	13	7	260,240	0	10	769,128 14 5
28. Tresco	..	25,960	0	0	91,207	16	11	..	..	25,960	0	0	91,207	16	11	117,167 16 11
29. Werribee	..	181,591	18	3	118,644	19	10	..	..	181,591	18	3	118,644	19	10	300,236 18 1
Totals	..	7,649,546	0	11	6,134,746	8	2	..	..	7,649,546	0	11	6,134,746	8	2	13,784,292 9 1

E.—URBAN DIVISIONS OF IRRIGATION AND WATER SUPPLY DISTRICTS.

1. Bacchus Marsh	..	13,881	18	7	13,881	18	7	10,129	14	2	..	3,752	4	5
2. Cohuna	..	..	..	..	9,007	14	3	3,193	14	4	..	5,813	19	11
3. Corop	..	..	..	..	231	15	6	..	..	..	..	231	15	6
4. Dingee	..	..	..	..	1,534	5	1	..	..	..	..	1,534	5	1
5. Heyfield	..	..	..	..	12,793	6	10	..	..	..	..	12,793	6	10
6. Leitchville	..	..	..	..	3,876	11	3	..	..	..	..	3,876	11	3
7. Lockington	..	..	..	..	2,230	16	2	121	11	9	..	2,109	4	5
8. Murrabit	..	..	..	..	1,030	18	3	..	..	..	..	1,030	18	3
9. Red Cliffs	..	..	..	..	16,749	16	10	1,624	2	5	..	15,125	14	5
10. Stanhope	..	..	..	..	1,492	14	6	..	..	..	..	1,492	14	6
11. Tallygaroopna	..	..	..	..	55	16	4	..	..	..	..	55	16	4
Totals	..	..	..	..	62,885	13	7	15,069	2	8	..	47,816	10	11

62,885 13 7

F.—WATERWORKS DISTRICTS.

1. Axe Creek	..	..	..	..	4,908	18	4	..	..	..	..	4,908	18	4
2. Bellarine Peninsula	..	..	..	..	301,521	6	9	83,399	17	11	..	218,121	8	10
3. Birchip	..	..	..	..	141,326	2	2	..	..	..	..	141,326	2	2
4. Carwarp	..	..	..	..	41,470	7	5	..	..	..	..	41,470	7	5
5. Carwarp Central	..	..	..	..	2,363	1	10	..	..	..	..	2,363	1	10
6. Coreena	..	..	..	..	46,101	11	10	..	..	..	..	46,101	11	10
7. East Loddon	..	..	..	..	2,227	13	8	..	..	..	..	2,227	13	8
8. Harcourt	..	..	..	..	17,022	9	3	..	..	..	..	17,022	9	3
9. Hindmarsh	..	..	..	..	15,457	7	9	..	..	..	..	15,457	7	9
10. Karkaroc	..	..	..	..	316,543	9	10	..	..	..	..	316,543	9	10
11. Kerang North-West Lakes	..	..	..	..	3,863	4	6	..	..	..	..	3,863	4	6
12. Loddon	..	..	..	..	2,933	13	7	..	..	..	..	2,933	13	7
13. Long Lake	..	..	..	..	171,121	17	4	..	..	..	..	171,121	17	4
14. Millewa	..	..	..	..	484,031	14	8	..	..	..	..	484,031	14	8
15. Millewa Central	..	..	..	..	170,647	0	0	..	..	..	..	170,647	0	0
16. Mornington Peninsula	..	..	..	..	10,281	0	3	..	..	..	..	10,281	0	3
17. Newstead	..	..	..	..	4,636	6	10	64,890	10	0	..	246,911	18	4
18. Normanville	..	..	..	..	19,975	17	10	..	..	..	..	19,975	17	10
19. Otway	..	..	..	..	168,071	19	2	90,914	18	6	..	77,157	0	8
20. Sea Lake	..	..	..	..	46,522	11	7	..	..	..	..	46,522	11	7
21. Tynnynder	..	..	..	..	118,184	11	11	..	..	..	..	118,184	11	11
22. Tyrrell	..	..	..	..	84,484	6	2	..	..	..	..	84,484	6	2
23. Tyrrell West	..	..	..	..	148,417	13	10	..	..	..	..	148,417	13	10
24. Upper Western Wimmera	..	..	..	..	58,004	11	8	..	..	..	..	58,004	11	8
25. Upper Wimmera United	..	..	..	..	75,974	18	8	..	..	..	..	75,974	18	8
26. Walpeup West	..	..	..	..	35,838	16	6	..	..	..	..	35,838	16	6
27. Werribee	..	..	..	..	11,513	6	0	..	..	..	..	11,513	6	0
28. West Loddon	..	..	..	..	8,576	9	4	..	..	..	..	8,576	9	4
29. Western Wimmera	..	..	..	..	115,629	14	3	..	..	..	..	115,629	14	3
30. Wimmera United	..	..	..	..	97,252	14	2	..	..	..	..	97,252	14	2
31. Wycheproof	..	..	..	..	63,428	2	6	..	..	..	..	63,428	2	6
32. Wychitella (Under construction)	..	..	..	..	..	..	..	..	..	..	..	..	..	..
33. Yelta	..	..	..	..	6,146	7	2	..	..	..	..	6,146	7	2
Totals	..	..	..	..	1,860,757	6	3	239,205	6	5	..	1,621,552	9	10
	..	..	..	..	2,820,140	16	11	2,820,140	6	11	..	4,441,692	16	9

2,820,140 16 11

Carried forward

22,705,425 14 7

LOAN CAPITAL ACCOUNTS—continued.

Totals at
30th June, 1946.
£ s. d.
22,705,425 14 7

Name of District.	Loan Capital Expenditure.						Allotted to District.	Capital Expenditure borne by the State Account.							
	Headworks.			Distributary Works.				Headworks.			Distributary Works.				
	£	s.	d.	£	s.	d.		£	s.	d.	£	s.	d.		
G.—URBAN DISTRICTS OF WATERWORKS DISTRICTS.															
1. Allansford ..	1,600	0	0	953	14	1	824	2	8	1,544	1	3	185	10	2
2. Anglesea ..	9,094	14	4	9,794	13	7	29 10	1		9,065	4	3	9,794	13	7
3. Antwerp ..	..	..	..	702	13	8	257 15	4		..	..	..	444	18	4
4. Barwon Heads and Ocean Grove ..	33,772	1	7	7,446	14	7	8,048	1	4	32,807	11	3	363	3	7
5. Berriwillock ..	..	..	..	5,171	19	3	3 9	8		..	..	..	5,168	9	7
6. Berwick ..	13,733	4	8	9,384	4	0	3,128	12	3	13,733	4	8	6,255	11	9
7. Beulah ..	..	..	..	7,575	19	8	2 13	2		..	..	..	7,573	6	6
8. Birchip ..	..	..	..	12,430	17	4	..			..	..	..	12,430	17	4
9. Birregurra ..	..	..	..	3,142	10	4	..			..	..	..	3,142	10	4
10. Bittern ..	1,671	1	8	1,218	18	3	15 13	3		1,671	1	8	1,203	5	0
11. Brim ..	..	..	..	3,524	5	11	332 8	6		..	..	..	3,191	17	5
12. Bunyip ..	5,382	2	7	5,988	17	11	26 6	3		5,382	2	7	5,962	11	8
13. Camperdown ..	46,469	0	0	49,265	15	8	55,182	13	5	39,927	1	3	625	1	0
14. Carwarp ..	..	..	..	635	19	0	..			..	..	..	635	19	0
15. Chelsea-Frankston ..	266,576	16	7	70,107	1	11	134,948	17	8	175,558	5	11	26,176	14	11
16. Chillingollah ..	..	..	..	2,477	14	6	..			..	..	..	2,477	14	6
17. Chinkapook ..	..	..	..	2,551	11	7	..			..	..	..	2,551	11	7
18. Cobden ..	9,213	0	0	16,033	19	4	12,912	1	2	..	..	..	3,121	18	2
19. Coliban ..	..	..	..	1,690,770	3	11	293,199	19	6	..	..	..	1,397,570	4	5
20. Cranbourne ..	6,614	0	11	2,880	1	2	600 2	9		6,614	0	11	2,279	18	5
21. Crib Point ..	8,766	18	0	3,156	6	11	2,340	12	3	8,766	18	0	815	14	8
22. Culgoa ..	..	..	..	4,403	5	7	2,239	16	5	..	..	..	2,163	9	2
23. Dandenong ..	95,869	19	5	42,128	11	11	51,577	4	3	85,267	11	7	1,153	15	6
24. Dimboola ..	..	..	..	17,849	11	10	10,886	1	0	..	..	..	6,963	10	10
25. Doon ..	..	..	..	698	7	0	17 3	0		..	..	..	681	4	0
26. Dromana-Portsea ..	84,519	6	5	72,622	9	3	4,339	9	4	84,519	6	5	68,282	19	11
27. Drysdale ..	11,879	7	8	2,264	15	5	38 9	8		11,840	17	0	2,264	16	5
28. Garfield ..	4,188	16	4	4,598	2	7	27 8	9		4,188	16	4	4,570	13	10
29. Hastings ..	7,403	4	5	6,693	16	4	6 5	0		7,403	4	5	6,687	11	4
30. Hopetoun ..	..	..	..	10,558	16	9	24 0	0		..	..	..	10,534	16	9
31. Jeparit ..	..	..	..	13,248	6	4	5,712	13	8	..	..	..	7,535	12	8
32. Jung Jung ..	..	..	..	3,381	4	10	1 12	6		..	..	..	3,379	12	4
33. Koondrook ..	..	..	..	5,920	18	4	..			..	..	..	5,920	18	4
34. Lake Boga ..	..	..	..	5,910	13	2	95 11	3		..	..	..	5,815	1	11
35. Lalbert ..	..	..	..	4,670	9	9	130 7	0		..	..	..	4,540	2	9
36. Lascelles ..	..	..	..	4,272	16	4	17 2	5		..	..	..	4,255	13	11
37. Longwarry ..	6,740	15	11	4,917	14	6	9,253	4	3	2,384	0	0	21 6	2	
38. Manangatang ..	..	..	..	5,176	17	1	1,673	14	0	..	..	..	3,503	3	1
39. Marnoo ..	..	..	..	4,130	8	4	1,361	17	2	..	..	..	2,768	11	2
40. Marong ..	..	..	..	2,104	18	7	22 18	10		..	..	..	2,081	19	9

41. Merbein ..	..	18,631 2 3	18,631 2 3	4,178 13 7	..	14,452 8 8
42. Meringur ..	..	1,761 8 0	1,761 8 0	4 6 8	..	1,757 1 4
43. Minyip ..	..	10,297 15 6	10,297 15 6	3,060 18 6	..	7,236 17 0
44. Mitiamo ..	..	2,072 16 2	2,072 16 2	..	..	2,072 16 2
45. Mornington ..	47,951 8 7	28,660 15 9	76,6 2 4 4	53,077 6 6	23,240 10 2	23,534 17 10
46. Nandaly ..	..	1,752 18 11	1,752 18 11	3 5 0	..	1,749 13 11
47. Natimuk ..	..	4,894 10 0	4,894 10 0	4,057 19 0	..	836 11 0
48. Newstead ..	..	7,563 19 0	7,563 19 0	1,763 13 10	..	5,800 5 2
49. Nullawil ..	..	3,651 11 10	3,651 11 10	280 16 6	..	3,370 15 4
50. Nyah ..	..	643 14 5	643 14 5	..	..	643 14 5
51. Nyah West ..	..	5,870 1 10	5,870 1 10	..	..	5,870 1 10
52. Ouyen ..	..	21,234 1 10	21,234 1 10	61 9 0	..	21,172 12 10
53. Pakenham ..	10,542 18 9	8,113 12 10	18,656 11 7	9,686 11 6	8,892 18 11	8,970 0 1
54. Patchewollock ..	..	3,645 19 4	3,645 19 4	1 12 6	..	3,644 6 10
55. Piangil ..	..	6,100 16 10	6,100 16 10	..	..	6,100 16 10
56. Portarlington ..	23,960 11 8	3,044 18 6	27,005 10 2	77 14 6	23,882 17 2	26,927 15 8
57. Pyramid Hill ..	..	6,605 4 2	6,605 4 2	1,292 4 10	..	5,312 19 4
58. Quambatook ..	..	4,822 0 4	4,822 0 4	3 4 11	..	4,818 15 5
59. Queenscliff and Point Lonsdale ..	76,631 15 7	11,599 3 3	88,230 18 10	16,382 19 1	69,838 19 6	71,847 19 9
60. Rainbow ..	..	11,467 3 9	11,467 3 9	7,593 14 10	..	3,873 8 11
61. Rupanyup ..	..	10,805 8 4	10,805 8 4	4,202 15 7	..	6,602 12 9
62. Sea Lake ..	..	7,712 9 10	7,712 9 10	1,533 3 4	..	6,179 6 6
63. Somerville ..	4,833 10 8	2,727 18 1	7,561 8 9	4,595 8 4	2,944 0 9	2,966 0 5
64. South Frankston ..	30,743 19 9	16,249 10 10	46,993 10 7	25,859 9 11	21,046 5 8	21,134 0 8
65. Speed ..	..	2,839 16 10	2,839 16 10	0 17 9	..	2,838 19 1
66. Spring Vale ..	98,006 19 10	28,626 18 6	126,633 18 4	111,954 12 9	14,061 3 5	14,679 5 7
67. Tempy ..	..	2,642 18 3	2,642 18 3	17 13 7	..	2,625 4 8
68. Terang ..	32,322 0 0	25,086 13 11	57,408 13 11	28,280 2 5	28,860 4 6	29,128 11 6
69. Torquay ..	22,867 3 8	9,985 8 2	32,852 11 10	145 10 2	22,793 0 1	32,707 1 8
70. Ultima ..	..	6,578 5 8	6,578 5 8	17 6 8	..	6,560 19 0
71. Waitehie ..	..	2,520 14 4	2,520 14 4	..	..	2,520 14 4
72. Walpeup ..	..	2,035 17 6	2,035 17 6	24 5 8	..	2,011 11 10
73. Watchem ..	..	5,065 15 1	5,065 15 1	125 6 10	..	4,940 8 3
74. Werrimull ..	..	4,850 6 2	4,850 6 2	1 12 6	..	4,848 13 8
75. Wonthaggi ..	..	73,272 0 7	73,272 0 7	9,162 13 2	..	64,109 7 5
76. Woomelang ..	..	9,246 5 1	9,246 5 1	15 10 8	..	9,230 14 5
77. Woorinen ..	..	1,984 6 11	1,984 6 11	590 1 5	..	1,394 5 6
78. Wycheproof ..	..	10,886 13 8	10,886 13 8	..	..	10,886 13 8
79. Yaapeet ..	..	2,298 6 10	2,298 6 10	3 14 4	..	2,294 12 6
Totals ..	961,354 19 0	2,508,615 15 7	3,469,970 14 7	887,334 13 7	715,446 7 8	2,582,636 1 0

2,508,615 15 7

H.—FLOOD PROTECTION DISTRICTS.

1. Cardinia ..	..	105,293 11 11	105,293 11 11	..	..	105,293 11 11
2. Kanyapella ..	..	3,885 1 5	3,885 1 5	..	..	3,885 1 5
3. Lower Koo-wee-rup ..	..	275,894 12 6	275,894 12 6	..	..	275,894 12 6
4. Loch Garry ..	..	18,621 18 11	18,621 18 11	..	..	18,621 18 11
Totals ..	..	403,695 4 9	403,695 4 9	..	..	403,695 4 9
Carried forward						25,617,736 14 11

403,695 4 9

25,617,736 14 11

LOAN CAPITAL ACCOUNTS—continued.

Totals at
30th June, 1946.
£ s. d.
25,617,736 14 11

Name of District.	Loan Capital Expenditure.						Allotted to District.	Capital Expenditure borne by the State Account.						Brought forward ..
	Headworks.			Distributary Works.				Headworks.			Distributary Works.			
	£	s.	d.	£	s.	d.		£	s.	d.	£	s.	d.	

I.—DRAINAGE DISTRICTS.															
1. Carrum ..	..	..	..	24,352	15	3	..	..	..	24,352	15	3	24,352	15	3
2. Cohuna ..	..	..	..	9,566	12	6	..	..	..	9,566	12	6	9,566	12	6
3. Dingee (under construction)	..	..	..	248	17	1	..	..	..	248	17	1	248	17	1
4. Kerang East ..	..	..	..	821	17	11	..	..	..	821	17	11	821	17	11
5. Maffra-Sale ..	..	..	..	1,176	19	7	..	..	..	1,176	19	7	1,176	19	7
6. Merbein ..	..	..	..	747	13	6	..	..	..	747	13	6	747	13	6
7. Murrabit ..	..	..	..	2,449	7	8	..	..	..	2,449	7	8	2,449	7	8
8. Nyah ..	..	..	..	10,829	19	7	..	..	..	10,829	19	7	10,829	19	7
9. Red Cliffs ..	..	..	..	1,218	5	8	..	..	..	1,218	5	8	1,218	5	8
10. Rochester ..	..	..	..	1,766	6	2	..	..	..	1,766	6	2	1,766	6	2
11. Rodney ..	..	..	..	4,947	6	2	..	..	..	4,947	6	2	4,947	6	2
12. Shepparton ..	..	..	..	16,397	16	8	..	..	..	16,397	16	8	16,397	16	8
13. Tongala-Stanhope	..	..	..	3,388	11	2	..	..	..	3,388	11	2	3,388	11	2
14. Tresco ..	..	..	..	182	9	3	..	..	..	182	9	3	182	9	3
15. Werribee ..	..	..	..	168	19	2	..	..	..	168	19	2	168	19	2
16. Woornen ..	..	..	..	684	19	6	..	..	..	684	19	6	684	19	6
Totals, Loan Liability ..	..	..	..	78,948	16	10	..	..	..	78,948	16	10	78,948	16	10

Totals, Commission's Districts (Statements D, E, F, G, H, and I.) ..																				
10,471,658	6	2†	12,009,032	15	10	22,480,691	2	0‡	1,141,609	2	8*	9,986,544	18	5	11,352,537	0	11	21,339,081	19	4

† Exclusive of following Works not apportioned to Districts, viz: Glenelg River Development Works, £231,048 2s. 10d., Cairn Curran Reservoir, £25,523 8s. 11d., Goulburn Waranga Channel Duplication, £25,523 8s. 11d., Eldon Reservoir Enlargement, £20,935 11s. 10d., Total, £280,319 10s. 10d. (Statement C).
* Exclusive of Plant and Machinery Suspense Account, £72,597 19s. 8d. (Statement B.) ‡ Exclusive of £1,182,780 granted free by Government from Unemployment Relief Funds, 1/6/1930 to 30/6/1942.

WORKS UNDER GENERAL SUPERVISION OF COMMISSION.

J.—WATERWORKS TRUSTS AND LOCAL GOVERNING BODIES.

Waterworks Trusts, First Mildura Irrigation Trust and Local Governing Bodies	..	..	..	..	..	..	..	..	..	..	..	..	£	s.	d.
Local Governing Bodies for Construction of Mallee Tanks	..	..	..	..	..	..	..	..	..	..	..	..	1,351,373	10	7
	..	..	..	..	..	..	..	..	..	..	..	..	157	1	1
Total Loan Liability	..	..	..	..	..	..	..	..	..	..	..	..	1,351,530	11	8
Amounts Written Off (Acts Nos. 1625, 1651, 2016, 4002, 4175, 4176), and Free Grants to Local Authorities, Borne by the State, £1,243,361 15s. 8d. (For details see Annual Report for Year 1938/39.) Less transferred to the Commission 1/7/45, £7,717. (Loddon United Waterworks Trust)	..	..	..	..	..	..	..	..	..	..	..	..	1,235,644	15	8
Under Water Act 1943, No. 4983, ££28,342 5s. 1d., less transferred to the Commission 1/7/45, £929 1s. 9d., (Loddon United Waterworks Trust)	..	..	..	..	..	..	..	..	..	..	..	..	627,413	3	4

Grand Total Net Loan Capital Expenditure (Exclusive of Equity in National Debt Sinking Fund)

3,214,588 10 8
28,911,274 2 5

SUMMARY STATEMENT OF LOAN CAPITAL ACCOUNTS AS AT 30th JUNE, 1946.

Reference to Preceding Statements.	Works.	Total Loan Capital Expenditure.	Deduct Redemption Paid.	Net Loan Capital.	At Debit of Authorities and Borne by Districts.	Capital Expenditure Borne by the State.
		£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
A	Free Headworks	1,238,168 17 10	520 0 6	1,237,648 17 4	..	1,237,648 17 4
B	Capital Works and Charges not Apportionable to Districts	2,057,202 10 5	359,176 8 10	1,698,026 1 7	72,597 19 6	1,625,428 2 1
C	Headworks Costs in respect of Irrigation and Water Supply	..	..	..	485,113 7 9	10,266,864 9 3
D	Waterworks Districts	10,883,165 4 0	131,187 7 0	10,751,977 17 0	..	6,134,746 8 2
E	Irrigation and Water Supply Districts, exclusive of Headworks Costs	6,239,605 3 8	104,858 15 6	6,134,746 8 2	..	47,816 10 11
F	Urban Divisions of Irrigation Districts	64,897 19 3	2,012 5 8	62,885 13 7	15,069 2 8	2,820,140 6 11
G	Waterworks Districts, exclusive of Headworks Costs	2,882,355 17 3	62,215 0 4	2,820,140 16 11	10 0	1,867,189 13 4
H	Urban Districts of Waterworks Districts, exclusive of Headworks Costs	2,560,625 10 10	52,009 15 3	2,508,615 15 7	641,426 2 3	403,695 4 9
I	Flood Protection Districts	411,849 18 8	8,154 13 11	403,695 4 9	..	78,948 16 10
	Drainage Districts	79,626 1 1	677 4 3	78,948 16 10	..	..
	Totals, Works under control of Commission	26,417,497 3 0	720,811 11 3	25,696,685 11 9	1,214,207 2 2	24,482,478 9 7
J	Waterworks Trusts and Local Governing Bodies	3,995,967 1 0	781,378 10 4	3,214,588 10 8	1,351,530 11 8	1,863,057 19 0
		30,413,464 4 0	1,502,190 1 7	28,911,274 2 5	2,565,737 13 10	26,345,536 8 7

RECONCILIATION STATEMENT.

COUNTRY WATER SUPPLY AND STATE DEVELOPMENT ACCOUNTS IN THE BOOKS OF THE TREASURY WITH CAPITAL ACCOUNTS IN THE BOOKS OF THE COMMISSION
AS AT 30th JUNE, 1946.

	Total.	Water Supply.	State Development Account.
	£ s. d.	£ s. d.	£ s. d.
Treasury "Finance" (Page 79)	26,243,535 15 7	2,690,136 14 4	23,553,399 1 3
Add—	145,077 18 1	..	145,077 18 1
Cost of Geelong Works "Finance" (Page 80)	..	..	..
National Debt Sinking Fund contributions from Consolidated Revenue pursuant to the provisions of the <i>Commonwealth and States Financial Agreement Act 1927</i> , No. 3554, as amended by Act No. 5051, 1941. "Finance" (Page 79). These amounts not credited to Districts and Works excepting recoup contributions shown below	2,927,219 12 10	296,933 6 4	2,630,286 6 6
Contributions in respect of Geelong Works. "Finance" (Page 80)	16,773 2 9	..	16,773 2 9
	29,332,606 9 3	2,987,070 0 8	26,345,536 8 7
Less—	421,332 6 10	421,332 6 10	..
Redemption recoup contributions paid into Consolidated Revenue by Commission Districts and Works, Waterworks Trust, &c.	..	..	..
Totals of amounts at debit of Authorities and Districts, and the Capital Expenditure borne by the State Account in the books of the Commission	28,911,274 2 5	2,565,737 13 10	26,345,536 8 7

ESTIMATES 1946-47. PROPOSED DISBURSEMENTS.

	Estimated Requirements.		Amount Provided in Budget.		Paying Districts Accumulated Gain at 30th June, 1946.
	£	£	£	£	£
Coliban Works—					
Paying Districts	985	..	688	..	..
Non-Paying Districts	22,340	..	16,508	..	..
		23,325		17,196	..
Free Headworks—					
Non-Paying Districts	10,568	10,568	4,443	4,443	..
Irrigation Districts—					
Paying Districts	114,182	..	99,771	..	..
Non-Paying Districts	106,886	..	64,923	..	..
		221,068		164,694	201,199
Waterworks Districts—					
Paying Districts	71,995	..	55,936	..	..
Non-Paying Districts	109,305	..	59,215	..	..
		181,300		115,151	141,991
Flood Protection Districts—					
Paying Districts	41,980	41,980	4,123	4,123	19,036
Drainage Districts—					
Paying Districts	7,253	..	228	..	..
Non-Paying Districts	44,393	..	34,869	..	..
		51,646		35,097	2,343
Removal of Sand Drift .. .. .	..	*125,000	..	117,000	..
Salaries of Permanent and Temporary Employees† .. .. .	..	361,746	..	361,746	..
General Expenditure† .. .. .	..	79,500	..	79,500	..
River Murray Works—Contribution by State .. .. .	..	18,830	..	16,830	..
Pay-Roll Tax .. .. .	..	22,770	..	22,770	..
Assistance to certain Sewerage Authorities where suspension of works is being continued .. .. .	..	12,000	..	12,000	..
Subsidies to Sewerage Authorities in cases where the interest paid on capital liability is in excess of the rate, 3 per cent. .. .. .	..	25,000	..	20,000	..
Subsidies to Waterworks Trusts and Local Governing Bodies to enable a Reduction of 33½ per cent. to be made in Water Rates .. .. .	..	800	..	800	..
Grant to Kerang Sewerage Authority in connexion with urgent reconditioning works .. .. .	..	3,650	..	3,650	..
	..	1,179,183	..	975,000	..

* As a result of adverse climatic conditions which developed subsequent to the preparation of the Commission's Estimates, it is anticipated that the total cost of removal of drift sand from the channels during 1946-47 will involve an expenditure of £167,000.

† To be apportioned over the above Districts.

ESTIMATED RECEIPTS.

	£	£
Coliban Works—		
Paying Districts	1,652	
Non-Paying Districts	45,348	
		47,000
Irrigation Districts—		
Paying Districts	258,352	
Non-Paying Districts	83,648	
		342,000
Waterworks Districts—		
Paying Districts	113,619	
Non-Paying Districts	109,381	
		223,000
Flood Protection and Drainage Districts—		
Paying Districts	9,722	
Non-Paying Districts	18,278	
		28,000
General .. .. .	..	30,000
Recoup on account of amounts paid from Revenue in connexion with River Murray Commission, Loan Works, &c. .. .. .	..	70,000
		740,000
Add estimated Revenue from Other Authorities—		
Waterworks Trusts	49,750	
Local Bodies	21,250	
		71,000
		811,000
Total estimated amount available from Revenues of Commission Paying Districts to meet interest .. .. .	..	48,000

For a more detailed analysis see Appendix 107. See also comments under heading "Control of Finance" on pages 10-12 of this report.

**SUMMARY OF REVENUE AND DISBURSEMENTS SHOWING SURPLUS OR DEFICIENCY FOR
FINANCIAL YEAR 1945-46 AND THE AGGREGATE SURPLUS OR DEFICIENCY AS AT
30TH JUNE, 1946.**

Groups "A" and "B" (see remarks hereunder).	Revenue 1945-46.	Disbursements 1945-46.	Surplus 1945-46.	Deficiency 1945-46.	Aggregate Surplus as at 30th June, 1946.	Aggregate Deficiency Since 30th June, 1938 as at 30th June, 1946.
	£	£	£	£	£	£
Irrigation and Water Supply Districts—						
(1) Group "A"	189,152	181,559	15,619	8,026	193,254	..
(2) Group "B"	119,359	151,193	..	31,834	..	157,209
Irrigation Urban Divisions—						
(3) Group "A"	5,220	5,762	100	642	7,945	..
(4) Group "B"	1,008	1,453	33	478	1,684	1,430
Waterworks Districts—						
(5) Group "A"	23,048	14,462	8,685	99	43,030	..
(6) Group "B"	151,187	491,287	2,366	342,466	6,282	966,257
Waterworks Urban Districts—						
(7) Group "A"	73,201	63,791	12,575	3,165	98,961	..
(8) Group "B"	24,978	31,245	1,532	7,799	21,964	12,733
Flood Protection Districts—						
(9) Group "A"	7,972	6,628	1,344	..	19,306	..
Drainage Districts—						
(10) Group "A"	2,313	743	1,570	..	2,343	..
(11) Group "B"	*38,002	49,445	1,600	13,043	3,454	59,198
Coliban System—						
(12) Group "B"	46,718	62,848	..	16,130	..	53,218
Totals	682,158	1,060,416	45,424	423,682	398,223	1,250,045

* Revenue, £38,002, comprises Assessment, £18,965; and Revenue transferred from Irrigation Districts, £19,037.

GROUP "A".—Districts from which revenue in 1945-46 was sufficient to carry all charges:—

- (1) *Irrigation and Water Supply Districts.*—Calivil, Campaspe, Cohuna, Deakin, Dingee, Katandra, †Kerang, Koondrook, †Maffra-Sale, Murray Valley, North Shepparton, Rochester, †Rodney, †South Shepparton, Third Lake, Tongala-Stanhope, †Tragowel Plains.
- (3) *Irrigation Urban Divisions.*—†Bacchus Marsh, Cohuna, Lockington, †Red Cliffs.
- (5) *Waterworks Districts.*—Bellarine Peninsula, East Loddon, Mornington Peninsula, Newstead, †Werribee.
- (7) *Waterworks Urban Districts.*—Allansford, †Antwerp, †Barwon Heads and Ocean Grove, Berriwillock, Berwick, †Brim, †Camperdown, Chelsea-Frankston, †Cobden, Cranbourne, †Culgoa, Dandenong, †Dimboola, Dromana-Portsea, Jeparit, Longwarry, †Marnoo, †Merbein, Minyip, Mornington, †Natinuk, Pakenham, Pyramid Hill, Rainbow, †Rupanyup, Somerville, South Frankston, Spring Vale, †Watchem.
- (9) *Flood Protection Districts.*—Cardinia, Kanyapella, Lower Kooweerup, Loch Garry.
- (11) *Drainage Districts.*—Carrum.

† Districts having an Aggregate Surplus as at 30th June, 1946, from which is met the deficiency arising from 1945-46 transactions.

GROUP "B".—Districts from which revenue in 1945-46 was insufficient to carry all charges:—

- (2) *Irrigation and Water Supply Districts.*—Bacchus Marsh, Boort, Fish Point, Merbein, Mystic Park, Nyah, Red Cliffs, Shepparton, Swan Hill, Tresco, Werribee.
- (4) *Irrigation Urban Divisions.*—Corop, Dingee, Heyfield, Leitchville, Murrabit, Stanhope.
- (6) *Waterworks Districts.*—Birchip, Carwarp, Carwarp Central, Coreena, Hindmarsh, Karkarooc, Kerang North-west Lakes, Loddon, Long Lake, Millewa, Millewa Central, Normanville, †Otway, Sea Lake, Tyntynder, Tyrrell, Tyrrell West, Upper Western Wimmera, Upper Wimmera United, Walpeup West, Western Wimmera, West Loddon, Wimmera United, Wycheproof, Yelta.
- (8) *Waterworks Urban Districts.*—Anglesea, Beulah, Birchip, Bittern, Bunyip, Carwarp, Chillingollah, Chinkapook, Crib Point, Dooen, Drysdale, Garfield, Hastings, Hopetoun, Jung Jung, Koondrook, Lake Boga, Lalbert, Lascelles, Manangatang, Meringur, Mitiamo, Nandaly, Newstead, Nullawil, Nyah, Nyah West, Ouyen, Patchewollock, Piangil, Partarlinton, Quambatook, Queenscliff and Point Lonsdale, Sea Lake, Speed, Tempy, Terang, Torquay, Ultima, Waitchie, Walpeup, Werrimull, Wonthaggi, Woomelang, Woorinen, Wycheproof, Yaapeet.
- (10) *Drainage Districts.*—Cohuna, Kerang East, †Maffra-Sale, Merbein, Murrabit, Nyah, Red Cliffs, Rochester, †Rodney, Shepparton, Tongala-Stanhope, Werribee, Woorinen.
- (12) *Coliban System.*—Axe Creek Waterworks District, Coliban Urban District, Harcourt Waterworks District, Marong Urban District.

‡ Districts having an Aggregate Deficiency since 30th June, 1938, as at 30th June, 1946, against which is set off the surplus arising from 1945-46 transactions.

CONTRACTS.

STATEMENT OF CONTRACTS ENTERED INTO DURING THE YEAR ENDED 30TH JUNE, 1946.

No.	Name of Contractor.	Work or Supply.	Amount (Loan and Vote).
			£ s. d.
3185	Jaques Bros., Pty. Ltd.	Six $\frac{3}{4}$ -c.yd. and six $\frac{1}{2}$ -c.yd. drag line excavators—Districts generally	40,200 0 0
3186	Mephan Ferguson Pty Ltd.	8,790 lin. ft. of concrete lined M.S. pipes—Coliban ..	4,153 9 3
3187	Rolls Engineering Co.	Venturi type Water Meter combined with By-pass Meter of same type—Mornington Peninsula	1,455 6 0
3188	Mephan Ferguson Pty. Ltd.	2,640 lin. ft. of concrete lined M.S. pipes	2,528 18 0
3189	W. L. Sides and Son Pty. Ltd.	Test-boring—Cairn Curran	591 5 0
3190	Australian Cement Ltd.	1,700 tons Portland Cement—Districts generally ..	6,743 6 8
3191	Armstrong-Holland (Melb.) Pty. Ltd. ..	Three self-propelled excavators—Mornington Peninsula	13,066 0 0
3192	A. H. Schulz	100 pre-fabricated portable huts—Works generally ..	4,950 0 0
3193	Victorian and Interstate Airways Ltd. ..	Stressed skin type pre-fabricated building panels ..	19,257 0 0
3194	Babcock and Wilcox Ltd.	Two water tube Boiler Units—Red Cliffs, Power Station	19,360 0 0
3195	Hume Pipe Co. (Aust.) Ltd.	4,059 lin. ft. R.C. pressure pipes—Coliban	1,355 7 9
3196	Hume pipe Co. (Aust.) Ltd.	2,100 lin. ft. R.C. pressure pipes—Coliban	1,988 5 0
	<i>Contracts at Piecework Rates.</i>		
	Channel Construction	Murray Valley District	9,490 8 7
	Firewood Supplies	Pumping Plants	9,883 16 0
	Miscellaneous .. ..	.. ..	4,928 15 0
		Total	139,951 17 3

DIRECT LABOUR 1945-46:

	Works.	Loan Funds.
		£
Murray Valley District		36,679
Glenelg River Works		18,856
Wimmera Mallee System		1,513
Wycheitella District		10,429
Merbein and Red Cliffs Districts		681
Rivers and Reclamation Division—		
Kooweerup and Cardinia Districts		1,038
Main Urban Supplies Division—		
Mornington Peninsula		2,131
Bellarine Peninsula		6,845
Otway District		792
Coliban System		10,017
Goulburn Division—		
Deakin, Rochester, Rodney, Tongala-Stanhope and Shepparton Districts		1,063
Loddon Division—		
Boort, Tragowel Plains, Nyah, Swan Hill, Kerang, Koondrook, Mystic Park, Tresco and Normanville Districts		5,490
Gippsland and Southern Division—		
Maffra-Sale, Bacchus Marsh and Werribee Districts		398
Miscellaneous		414
Surveys and Investigations		19,418
Total		115,764

APPENDIX A.

STATE RIVERS AND WATER SUPPLY COMMISSION.

IRRIGATION SYSTEMS.

RETURN OF WATER DELIVERED—YEAR 1945-46.

District.	Gross Supply at District Offtakes (excluding volumes passed to other Districts).	Total Water Rights Allotted to District.	Delivered to Water-Users in Commission's District.				Delivered to Water-Users Outside District from District Channels.	Total Quantity Delivered from District Channels.	Delivered to Water-Users Outside District from Main Channels.
			Irrigation.		Domestic and Stock Purposes.	Total Quantity Delivered in District.			
			Water Rights.	Sales of Water.					
	acre feet.	acre feet.	acre feet.	acre feet.	acre feet.	acre feet.	acre feet.	acre feet.	acre feet.
GOULBURN SYSTEM—									
(Main Eastern Channel.)									
South Shepparton	4,236	4,404	2,880	343	60	3,283	5	3,288	..
Shepparton	29,280	21,391	14,665	288	92	15,045	61	15,106	..
North Shepparton	26,086	13,203	8,459	768	147	9,374	..	9,374	5
Katandra	10,260	7,329	6,479	725	143	7,347	7	7,354	4
Totals	69,862	46,327	32,483	2,124	442	35,049	73	35,122	9
(WARANGA RESERVOIR.)									
Rodney	163,491	60,838	49,236	15,055	2,460	66,751	(a) 535	67,286	..
Tongala-Stanhope	83,068	48,052	41,941	5,274	1,490	48,705	..	48,705	..
Deakin	10,792	5,660	4,261	883	227	5,371	..	5,371	..
Rochester	99,728	57,466	51,781	11,506	2,218	65,505	578	66,083	..
Dingee	6,062	4,361	4,129	1,111	201	5,441	..	5,441	..
Calivil (including Loddon water)	14,210	6,505	5,861	2,809	361	9,031	..	9,031	(b) 53
Tragowel Plains (including Loddon water)	77,935	31,192	29,381	5,736	1,201	36,318	..	36,318	(b) 24
Loddon United (including Loddon water)	4,452	..	..	..	245	245	440	685	712
Boort (including Loddon water)	32,328	11,339	10,998	3,197	514	14,709	142	14,851	..
Normanville (including Loddon Water)	1,779	..	..	..	261	261	..	261	..
Totals	493,845	225,413	197,588	45,571	9,178	252,337	1,695	254,032	789
Totals (Goulburn System)	563,707	271,740	230,078	47,695	9,620	287,386	1,768	289,154	798
RIVER MURRAY SYSTEM—									
(Yarrawonga Weir)									
Murray Valley	(d) 37,376	24,223	11,295	3,031	235	14,561	54	14,615	..
(Torrumbarry System)									
Cohuna	97,833	49,111	45,391	8,295	1,844	55,530	156	55,686	..
Koondrook	68,561	24,522	20,486	3,649	354	24,489	146	24,635	..
Kerang	47,546	18,949	17,692	7,803	747	26,242	375	26,617	..
Third Lake	4,330	2,513	2,221	47	..	2,268	9	2,277	..
Mystic Park	2,870	2,677	1,639	92	..	1,731	316	2,047	..
Tresco	4,171	..	..	..	1,918	1,918	..	1,918	..
Fish Point	2,093	1,845	1,470	7	..	1,477	..	1,477	..
Swan Hill	38,516	25,886	21,147	3,229	9	24,385	111	24,496	..
Pental Island Private Diversions .. .. .	..	..	..	..	..	..	..	..	5,001
Kerang Private Diversions .. .. .	..	..	..	..	..	..	..	..	754
Kerang North-West Lakes Private Diversions .. .. .	..	..	..	..	..	..	..	..	3,391
Upper Gunbower Creek Private Diversions .. .. .	..	..	..	..	..	..	..	..	3,423
Lower Gunbower Creek Private Diversions .. .. .	..	..	..	..	..	..	..	..	5,756
Taylor's Creek Private Diversions .. .. .	..	..	..	..	..	..	..	..	1,125
Kow Swamp Private Diversions .. .. .	..	..	..	..	..	..	..	..	1,986
Pyramid Creek Private Diversions .. .. .	..	..	..	..	..	..	..	..	3,196
Totals (Torrumbarry System)	265,920	125,503	110,046	23,122	4,872	138,040	1,113	139,153	24,632
(Pumped from River Murray)									
Nyah	(e) 11,844	7,357	6,428	203	222	6,853	101	6,954	..
Coreena	797	..	..	..	(g) 120	120	..	120	..
Red Cliffs	39,369	28,177	22,799	423	..	23,222	480	23,702	..
Carwarp	2,737	..	..	..	2,737	2,737	..	2,737	..
Merbein	30,321	19,233	16,780	658	..	17,438	..	17,438	..
Yelta	583	..	..	..	583	583	..	583	..
Millewa	12,950	..	..	..	(f) 2,590	2,590	..	2,590	..
Totals	98,601	54,767	46,007	1,284	6,252	53,543	581	54,124	..
Totals (River Murray System)	401,897	204,493	167,348	27,437	11,359	206,144	1,748	207,892	24,632
CAMPASPE SYSTEM—									
Coliban .. .. .	..	..	..	(c) 3,017	5,200	8,217	..	8,217	..
Campaspe	2,843	..	..	501	131	632	15	647	..
Totals	2,843	..	..	3,518	5,331	8,849	15	8,864	..
WERRIBEE SYSTEM—									
Bacchus Marsh	2,131	3,331	1,426	9	..	1,435	(b) 414	1,849	..
Werribee	6,939	8,154	3,898	1	214	4,113	265	4,378	..
Totals	9,070	11,485	5,324	10	214	5,548	679	6,227	..
MACALISTER SYSTEM—									
Maffra-Sale	47,067	22,708	17,545	1,412	679	19,636	422	20,058	..
Grand Totals	1,024,584	510,426	420,288	80,072	27,203	527,563	4,632	532,195	25,430

(a) Includes Waterworks Trusts. (b) Includes Urban Districts. (c) Includes 511.9 acre feet for crushing, and 6.2 acre feet for motive power. (d) Includes 1,491 acre feet turned into Broken Creek at Katamatite. (e) Includes 3,466 acre feet supplementary supply to Tyntynder District. (f) Estimated on basis 20 per cent. delivery to land. (g) Estimated on basis 15 per cent. delivery to land.

Total Supplementary Supply to Wimmera-Mallee for period 1st July, 1945, to date—

From Waranga Western Channel	25,430
From Loddon River	24,634
Total	50,064

Volume supplied, present run commenced 10th June, 1946—

Waranga Western Channel	486
Loddon River	6,082
Total	6,568

APPENDIX B.

STATE RIVERS AND WATER SUPPLY COMMISSION.

DOMESTIC AND STOCK SYSTEMS.

Return of Water Delivered to Waterworks Districts during Waterings in Year 1945; measurements being made at Headworks or at Pumping Stations.

Districts.							Quantity.	Total.
Wimmera-Mallee System—							Acre feet.	Acre feet.
Wimmera River and Storages	..	..	..	..	..	..	36,025	77,329*
Loddon and Goulburn Water	..	..	..	..	..	..	37,838	
River Murray (Nyah Pump)	..	..	..	..	..	..	3,466	
Normanville (Loddon and Goulburn)							1,779	1,779
River Murray—								
Millewa	..	..	..	..	..	..	12,950	14,439
Coreena	..	..	..	..	..	..	797	
Yelta	..	..	..	..	..	..	483	
Carwarp	..	..	..	..	..	..	209	
Grand Total							..	93,547

* Detailed statement of Wimmera-Mallee System hereunder.

WIMMERA-MALLEE DOMESTIC AND STOCK SUPPLY SYSTEM—WATER SUPPLIED FROM HEADWORKS.

Year.	Lake Lonsdale and Fyans Lake. Acre Feet, Gauged at Lake Lonsdale.	Wimmera River. Acre Feet, Gauged at Glenorchy.	Taylors, Pine and Wartook Lakes. Acre Feet, Gauged at Outlets.	River Murray, Nyah Pump. Acre Feet, Gauged at Nyah.	Waranga Western Channel. Acre Feet, Gauged at Avoca River.	Total Acre Feet.	Yearly Rainfall.		Year.
							Wartook. Inches.	Hopetoun. Inches.	
1923	14,000	27,730	5,296	..	..	47,026	41·99	13·44	1923
1924	10,900	25,126	11,982	..	..	48,008	40·81	19·04	1924
1925	42,550	16,832	16,932	3,900	..	80,214	27·42	8·65	1925
1926	28,368	17,640	22,522	4,800	..	73,330	34·43	11·93	1926
1927	37,466	10,292	29,146	4,300	..	81,204	28·00	8·76	1927
1928	23,132	14,210	21,822	..	8,700	67,864	33·90	15·06	1928
1929	28,966	8,142	6,522	..	39,720	83,350	30·80	9·52	1929
1930	19,022	7,360	8,160	..	40,408	74,950	34·45	15·24	1930
1931	1,200	9,280	8,082	..	17,318	35,880*	35·45	13·83	1931
1932	14,700	17,234	20,342	..	28,848	81,124	37·12	14·25	1932
1933	17,516	9,536	19,750	..	29,060	75,862	38·56	15·54	1933
1934	29,866	9,262	12,152	..	33,970	85,250	26·52	12·50	1934
1935	26,347	9,128	16,622	..	24,344	76,441	29·99	10·30	1935
1936	23,315	8,240	12,235	..	21,400	65,190	38·19	12·18	1936
1937	36,017	4,926	17,065	..	33,912	91,920	31·30	15·46	1937
1938	22,789	3,138	35,337	..	21,970	83,234	24·57	5·61	1938
1939	8,956	15,225	22,725	..	21,587	68,493	33·77	15·16	1939
1940	34,309	1,666	25,465	..	28,240	89,680	25·74	6·23	1940
1941	16,290	5,540	15,288	940	22,315	60,373	39·14	12·66	1941
1942	6,293	10,391	19,394	..	26,673	62,751	44·36	14·15	1942
1943	23,647	2,038	26,282	..	24,943	76,910	29·43	9·07	1943
1944	26,017	7,131	27,053	1,920	17,966	80,087	26·64	6·32	1944
1945	17,271	2,679	16,075	3,466	37,838	77,329	28·58	9·58	1945

* Owing to good rains early in the season throughout the Wimmera-Mallee Districts many channels were run without the necessity for drawing on Headworks Supplies.

In addition to the above, the following quantities have been released from Headworks at Pine Lake, Green Lake, and Dock Lake Storages for irrigation areas in Western Wimmera and Wimmera United Districts since 1933-34 :—

Year.							Area Watered.	Gross Supply Released from Headworks.
							Acres.	Acre feet.
1933-34	..	..	..	..	..	..	1,454	5,703
1934-35	..	..	..	..	..	..	1,760	6,197
1935-36	..	..	..	..	..	..	1,831	6,880
1936-37	..	..	..	..	..	..	2,079	5,343
1937-38	..	..	..	..	..	..	2,407	9,163
1938-39	..	..	..	..	..	..	2,545	8,571
1939-40	..	..	..	..	..	..	2,519	9,788
1940-41	..	..	..	..	..	..	2,697	10,389
1941-42	..	..	..	..	..	..	3,049	12,026
1942-43	..	..	..	..	..	..	2,988	6,295
1943-44	..	..	..	..	..	..	3,154	13,847
1944-45	..	..	..	..	..	..	3,035	9,250*
1945-46	..	..	..	..	..	..	2,582	7,220*

* Irrigation restricted to three waterings on account of drought and depleted storages.

APPENDIX C.

STATE RIVERS AND WATER SUPPLY COMMISSION.

WIMMERA-MALLEE AND RIVER MURRAY DOMESTIC AND STOCK SUPPLY SYSTEMS—
PERIODS OF ANNUAL WATERINGS.

WIMMERA-MALLEE.				COREENA.*			
Year.	Commenced.	Completed.	Days.	Year.	Commenced.	Completed.	Days.
1933	14.4.33	13.11.33	213	1933	25.8.33	19.10.33	55
1934	27.4.34	7.11.34	194	1934	24.8.34	14.11.34	82
1935	1.5.35	6.11.35	190	1935	2.8.35	17.10.35	76
1936	29.4.36	30.10.36	184	1936	10.8.36	10.10.36	61
1937	26.4.37	7.11.37	195	1937	8.9.37	15.12.37	98
1938	5.4.38	16.10.38	194	1938-39	{ 21.9.38	26.11.38	66 } 123†
1939	30.4.39	4.11.39	188		{ 24.12.38	19.2.39	
1940	17.4.40	30.10.40	196	1939	2.8.39	7.9.39	36
1941	23.4.41	22.10.41	182	1940	16.8.40	23.10.40	68
1942	22.4.42	28.10.42	189	1941	27.8.41	12.10.41	46
1943	30.4.43	6.11.43	191	1942	20.8.42	25.9.42	36
1944	10.4.44	15.11.44	220	1943	25.8.43	25.9.43	32
1945	19.6.45	20.2.46	247	1944	2.10.44	28.1.45	119
				1945	10.12.45	1.3.46	82

† Supplies intermittent owing to low state of river.

MILLEWA.*				MILLEWA CENTRAL.*			
Year.	Commenced.	Completed.	Days.	Year.	Commenced.	Completed.	Days.
1937	13.5.37	29.9.37	139	1937	10.5.37	17.9.37	130
1938	4.5.38	7.10.38	156	1938	6.5.38	27.9.38	144
1939	4.5.39	10.9.39	129	1939	6.5.39	10.9.39	127
1940	7.5.40	4.10.40	150	1940	9.5.40	2.10.40	146
1941	12.5.41	4.9.41	115	1941	15.5.41	29.8.41	106
1942	13.5.42	28.11.42	199†	1942	15.5.42	12.10.42	150†
1943	8.6.43	16.12.43	192†	1943	12.6.43	16.12.43	188†
1944	23.5.44	3.12.44	195†	1944	25.5.44	4.12.44	194†
1945	14.6.45	8.12.45	178	1945	16.6.45	3.11.45	141

† Pumps on part load only for some months on account shortage of labour affecting channel cleaning operations and firewood supply.
† Longer running due to one unit of Millewa Central Pumps being out of commission for three and a half months.

YELTA.*				CARWARP.*			
Year.	Commenced.	Completed.	Days.	Year.	Commenced.	Completed.	Days.
1937	21.9.37	20.10.37	29	1937	25.8.37	2.10.37	38
1938	12.9.38	23.9.38	11†	1938	17.8.38	28.9.38	42
1939	13.9.39	22.10.39	39	1939	12.9.39	21.10.39	39
1940	8.8.40	11.9.40	34	1940	8.8.40	16.9.40	39
1941	10.9.41	6.10.41	26	1941	18.8.41	22.9.41	35
1942	25.9.42	25.10.42	30	1942	11.9.42	31.10.42	50
1943	11.8.43	31.8.43	21	1943	19.7.43	27.8.43	40
1944	18.8.44	10.9.44	24	1944	17.7.44	25.8.44	40
1945	14.1.46	14.2.46	32	1945	{ 24.10.45	26.10.45	82
					{ 6.11.45	19.1.46	
					{ 23.1.46	26.1.46	

† Portion of district not supplied.

* Districts supplied from River Murray.

APPENDIX D.

STATE RIVERS AND WATER SUPPLY COMMISSION.

COLIBAN SYSTEM—WATER DELIVERIES.

The following statement shows the quantities of water taken into and released from the main storages of the Coliban System, the quantities delivered to water-users, and the percentages of efficiency of deliveries since the year 1936-37 :—

Year.	Inflow to Storages.			Output from Storages.	Delivered to Users.	Percentage Efficiency.	Remarks.
	From Coliban River.	Through Ashbourne Diversion Channel from Campaspe River to Coliban River.	Total.				
	acre feet.	acre feet.	acre feet.	acre feet.	acre feet.		
1936-37	48,150	1,388	49,538	36,000	15,818	44	Water run in—
1937-38	5,969	376	6,345	12,713	7,724	61	Whole system
1938-39	21,618	1,342	22,960	3,786	3,117	82	Whole system (restrictions on minor races)
1939-40	51,452	2,226	53,678	24,673	13,282	54	Main channels only
1940-41	6,482	211	6,693	16,000	10,000	63	Whole system
1941-42	36,953	1,767	38,720	17,908	13,126	73	Whole system (restrictions on minor races)
1942-43	63,749	1,557	65,306	22,363	13,135	58	Whole system (restrictions on minor races)
1943-44	22,802	848	23,650	29,900	17,000	57	Whole system
1944-45	8,016	96	8,112	16,698	9,933	59	Whole system*
1945-46	36,352	1,781	38,133	17,897	10,546	59	Whole system

* Water restricted to one-third of normal supplied for irrigation in all channels; from February, Stock and Domestic supplies only in channels run to supply towns.

APPENDIX E.
STATE RIVERS AND WATER SUPPLY COMMISSION.
LANDS UNDER IRRIGATED CULTURE.

The two Statements hereunder show the extent of Areas Irrigated—(A) during last year in detail, and (B) during the last five years totalled for purposes of comparison.
(A) STATEMENT OF THE EXTENT OF IRRIGATION AND OF AREAS OF DIFFERENT KINDS OF CROPS WATERED
—YEAR 1945-46.

Name of District.	Area of District in Acres.	Area classified as Irrigable within Constituted Districts in Acres.	Water Rights Apportioned (including Extra Watering Rights) (Acre Feet).	Area Irrigated, including Lands adjoining a District, in Acres.									
				Total.	Cereals.	Lucerne Grown for Pasture and Hay.	Sorghum and Other Annual Fodder Crops.	Pastures.		Vineyards.	Orchards.	Market Gardens.	Fallow and Miscellaneous.
								Native.	Sown.				
GOULBURN SYSTEM.													
Katandra	13,957	11,173	7,329	8,483	568	571	6	..	7,333	..	5	..	..
North Shepparton	121,795	61,444	13,203	18,073	2,132	1,829	55	592	12,845	..	56	564	..
Shepparton	24,462	21,391	21,391	17,248	457	494	9	146	5,347	141	8,242	2,350	62
South Shepparton	33,714	17,923	4,404	7,158	890	649	15	176	5,206	..	30	192	..
Rodney	272,683	190,361	60,838	85,121	8,138	14,741	682	2,448	49,127	243	8,334	944	464
Tongala-Stanhope	76,170	47,626	48,052	41,041	3,002	5,122	278	1,327	29,233	19	1,757	56	247
Rochester	181,594	56,995	57,466	61,263	6,470	6,803	470	6,502	39,507	16	1,208	115	172
Dingee	8,860	4,361	4,361	3,964	355	20	..	322	3,262	..	..	5	..
Calivil	61,140	32,527	6,505	11,753	3,902	350	212	1,747	5,038	1	..	214	289
Tragowel Plains	218,164	148,763	31,192	44,508	10,358	923	3,181	13,263	14,966	19	..	12	1,786
Deakin	160,432	21,050	5,660	7,109	1,753	920	48	88	4,292	..	3	..	5
Boort*	80,061	56,722	11,339	20,795	5,855	1,200	1,199	5,130	6,390	..	12	..	1,009
Totals	1,253,032	670,336	271,740	326,516	43,880	33,622	6,155	31,741	182,546	439	19,647	4,452	4,034
RIVER MURRAY SYSTEM.													
(a) Torrumbarry Weir.													
Cohuna	84,960	44,486	49,111	62,000	1,497	3,422	689	27,647	26,055	2	80	27	2,581
Koondrook	82,676	24,472	24,522	32,604	2,138	2,012	1,118	9,878	15,812	..	1,065	20	561
Swan Hill	37,123	22,268	25,886	21,522	1,702	3,759	206	3,361	6,135	3,619	245	1,177	1,318
Third Lake	11,483	3,771	2,513	4,201	355	91	98	1,703	1,954	..	..	..	..
Mystic Park	20,260	7,805	2,677	3,664	614	15	42	980	1,877	..	15	..	121
Tresco	3,482	2,000	..	1,121	..	33	..	62	..	820	206	..	..
Fish Point	6,327	3,756	1,845	2,092	93	67	159	986	771	..	..	16	..
Kerang	87,174	54,925	18,949	37,168	3,681	1,405	1,596	17,017	13,259	..	12	7	191
Kerang North-West Lakes	35,943	..	..	3,960	934	141	284	1,247	764	..	412	..	178
Lands supplied direct (outside Districts)	..	..	..	17,466	1,752	1,914	287	5,212	8,155	..	37	92	17
Totals	369,428	163,483	125,503	185,798	12,766	12,859	4,479	68,093	74,782	4,441	2,072	1,330	4,967
(b) Farrowongya Weir.													
Murray Valley	269,312	86,248	24,223	21,338	7,362	2,844	995	1,899	5,515	..	1,772	886	65
(c) Direct from River by Pumping.													
Nyah	3,839	2,744	7,358	3,010	81	119	45	42	39	2,499	135	37	13
Red Cliffs	30,961	11,271	28,177	11,569	..	175	..	50	..	10,821	388	135	..
Merbein	10,355	7,693	19,233	7,961	15	29	100	98	8	7,066	533	74	38
Totals	45,155	21,708	54,768	22,540	96	323	145	190	47	20,386	1,056	246	51
Totals (River Murray System)	683,895	271,439	204,494	229,676	20,224	16,026	5,619	70,182	80,344	24,827	4,900	2,471	5,083
LODDON AND OTHER NORTHERN SYSTEMS.													
Boort* .. .. .	..	..	..	650	180	40	40	160	200	..	..	..	30
East Loddon .. .. .	..	..	..	734	166	42	6	19	493	..	..	8	..
Loddon .. .. .	..	..	..	77	32	..	..	..	39	..	..	..	6
West Loddon .. .. .	..	..	..	1,489	280	81	369	85	30	..	12	..	632
Coliban .. .. .	..	10,900	..	6,166	66	311	67	432	926	3	3,489	872	..
Campaspe	19,725	..	..	1,116	571	185	..	260	94	..	6	..	..
Western Wimmera .. .. .	..	3,090	..	2,423	..	283	24	..	760	66	1,120	170	..
Wimmera United .. .. .	..	162	..	153	..	86	..	..	61	..	..	6	..
Totals	19,725	14,152	..	12,808	1,295	1,028	506	956	2,603	69	4,627	1,056	668
SOUTHERN SYSTEMS.													
Bacchus Marsh	6,655	3,331	3,331	2,271	125	625	..	..	1,228	..	160	130	3
Werribee	10,137	8,153	8,154	7,938	..	807	176	..	3,801	..	308	2,846	..
Maffra-Sale	51,935	22,672	22,708	21,878	50	1,926	396	1,309	17,917	..	2	63	215
Totals	68,727	34,156	34,193	32,087	175	3,358	572	1,309	22,946	..	470	3,039	218
MILDURA AND PRIVATE DIVERSIONS.													
First Mildura Trust District	44,000	15,000	..	12,742	..	350	170	..	..	11,330	800	..	92
Private Diversions—Kerang (outside District) .. .. .	..	..	..	4,273	482	163	257	1,383	1,962	..	14	..	12
Other Private Diversions throughout the State .. .. .	..	..	..	38,743	6,900	12,762	1,873	76	11,367	1,686	2,174	1,578	327
Totals	44,000	15,000	..	55,758	7,382	13,275	2,300	1,459	13,320	13,016	2,988	1,578	431
Grand Totals 1945-46	2,069,379	1,005,083	510,427	656,845	72,956	67,309	15,152	105,647	301,768	38,351	32,632	12,596	10,434
Grand Totals 1944-45	1,903,069	998,811	508,089	665,210	62,942	64,286	34,326	125,052	285,966	37,876	32,005	13,919	8,838

* Boort District is supplied from the Goulburn and the Loddon Systems.

(B) COMPARATIVE STATEMENT OF THE EXTENT OF IRRIGATION 1940-41 TO 1945-46.

Source of Supply.	Area under Irrigation, (Acres).				
	1941-42.	1942-43.	1943-44.	1944-45.	1945-46.
Goulburn System	321,843	329,408	357,228	311,378	326,516
River Murray System	203,820	198,498	227,668	259,327	229,676
Loddon and other Northern Systems	11,460	12,646	13,722	9,451	12,808
Southern Systems	34,995	34,288	34,613	35,638	32,087
Mildura Trust and Private Diversions	29,956	31,917	32,013	49,416	55,758
Totals	602,074	606,757	665,244	665,210	656,845

APPENDIX F.

STATE RIVERS AND WATER SUPPLY COMMISSION.

TOTAL STORAGES IN STATE.

In 1902 the total capacity of storages in the State was 172,000 acre feet. The present capacity of those under the Commission's direct control is 1,969,970 acre feet. The Hume Reservoir, designed to contain 2,000,000 acre feet (half of which can, subject to the provisions of the River Murray Agreement, be credited to the State of Victoria), now has a capacity of 1,250,000 acre feet. When the final stage of this work has been completed (involving further approval of the interested Governments), and the Lauriston, Rocklands, and Glenmaggie Reservoirs are completed, the combined capacities of Victoria's storages will be 2,658,470 acre feet.

EXISTING STORAGES.

Storage.	Full Supply Reduced Level.		Capacity.	
	Feet.		Acre feet.	Acre feet.
Goulburn System—				
Eildon	823.00		308,000	
Goulburn Weir (8,000 acre feet below gravitation level).	408.00		20,700	
Waranga (53,000 acre feet below gravitation level).	398.00		333,400	
				660,100
Murray-Loddon System—				
Hume Reservoir	1,250,000			
Yarrawonga Weir	95,120			
Torrumbarry	28,900			
Euston	31,320			
Mildura	29,360			
Wentworth	38,140			
	1,472,840			
Kow Swamp	272.00		40,860	
Laanecoorie	527.00		6,300	
Kerang-North West Lakes—				
Third, Middle, Reedy	244.75			
Kangaroo, Racecourse, Charm (52,100 acre feet below gravitation level).	241.00			
Cullens	240.25			
Lake Boga, (18,200 acre feet below gravitation level).	226.50		29,650	
Lake Cullulleraine	101.00		2,000	
				884,630
Wimmera-Mallee System—				
Fyans Lake, (800 acre feet below gravitation level).	673.00		17,100	
Lake Lonsdale, (1,600 acre feet below gravitation level).	618.25		53,300	
Wartook, (700 acre feet below gravitation level).	1,500.00		23,800	
Taylor's Lake, (1,500 acre feet below gravitation level).	482.33		30,000	
Pine Lake, (19,700 acre feet below gravitation level).	475.00		52,000	
Green Lake	452.50		6,600	
Dook Lake	442.00		4,800	
Moora, (200 acre feet below gravitation level).	723.50		5,100	
Lower Wimmera Weirs			2,870	
Batyo Catyo (Avon Regulator)	402.00		5,000	
Lake Whitton	375.00		1,300	
Township Reservoirs and Mallee Tanks			4,610	
				206,480
Maffra-Sale System—				
Glenmaggie	244.00		104,500	
Service Basins (Stratford, Heyfield)			40	
				104,540
Coliban System—				
Upper Coliban	1,652.00		25,700	
Malmshury	1,477.00		14,400	
Lauriston	1,566.00		12,000	
Spring Gully	899.00		2,000	
Subsidiary Reservoirs			4,750	
				58,850
Werribee System—				
Pykes Creek	1,306.00		19,400	
Melton	273.00		15,500	
				34,900
Bellarine Peninsula System—				
Wurdee Boluo	441.50		10,000	
Service Basins			800	
				10,800
Mornington Peninsula System—				
Lysterfield	221.50		3,400	
Beaconsfield	340.00		740	
Frankston	255.00		680	
Mornington	244.00		280	
Bittern	250.00		480	
Service Basins			260	
				5,800
Otway System—				
Service Basins				1,080
Miscellaneous—				
Eppalook	530.00		1,200	
Wonthaggi	238.00		1,560	
Wonthaggi Service Basins			10	
Newstead	806.00		30	
				2,790
Total Capacity of Existing Storages				1,969,970
ADDITIONAL STORAGE BEING PROVIDED BY WORKS IN COURSE OF CONSTRUCTION.				
Wimmera-Mallee System—				
Rocklands	644.00			264,000
FURTHER STORAGE WHICH COULD BE PROVIDED BY COMPLETION OF EXISTING WORKS.				
Maffra-Sale System— Glenmaggie to 150,000 acre feet	255.00		45,500	
Murray System— Hume Reservoir to 2,000,000 acre feet (half share to Victoria)	626.00		375,000	
Coliban System— Lauriston to 16,000 acre feet	1,574.20		4,000	
				424,500
TOTAL CAPACITY OF STORAGES WHEN WORKS ARE COMPLETED				2,658,470

(a) One foot below New South Wales Standard Datum.

(b) New South Wales Water Conservation Datum.

(c) River Murray Lock Site Datum. All other levels are to Victorian Railways Datum.

APPENDIX G.
STATE RIVERS AND WATER SUPPLY COMMISSION.
VICTORIAN WATER SUPPLY STATISTICS.

1945-46.

AREA.

Area of State of Victoria	87,884 square miles = 56,245,760 acres
Area of rural and urban lands artificially supplied with water for domestic and stock and industrial purposes by channels, tanks, bores and pipe lines, excluding Melbourne Metropolitan area	20,330 square miles = 13,011,100 acres
Area within Irrigation Districts	2,387,600 acres
Area Irrigated	656,845 acres
Area within Flood Protection Districts	148,910 acres
Area within Drainage Districts	502,700 acres

DISTRIBUTION OF AVERAGE RAINFALL FOR THE YEAR.

Over State (87,884 square miles)	10 inches to 80 inches
Under 15 inches	26,102 square miles = 29·70 per cent. of area of State
15 inches to 20 inches	19,309 " " = 21·97 " " "
20 " 25 "	13,722 " " = 15·62 " " "
25 " 30 "	11,803 " " = 13·43 " " "
30 " 40 "	11,136 " " = 12·67 " " "
40 " 50 "	3,923 " " = 4·46 " " "
50 " 60 "	1,735 " " = 1·97 " " "
Over 60 inches	154 " " = 0·18 " " "
Total	87,884 " "

WATERWORKS—

Controlled by Commission—

Storages—Number of large reservoirs	35
Number of subsidiary reservoirs and service basins	225
Total capacity of storages, 536,000 million gallons = 1,969,970* acre feet.	

* Includes half share of Hume Reservoir and other River Murray Works.

Channels—Length—

Irrigation	4,395 miles
Domestic and Stock	8,312 miles
Drainage and Flood Protection	2,135 miles
Total	14,842 miles

Pipe Lines—Length—

Mains	258 miles
Reticulation	854 miles
Total	1,112 miles

Tanks—Excavated—

Number in Wimmera-Mallee Waterworks Districts	260 tanks
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Bores—

Number in Waterworks Districts	105 bores
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Water Deliveries—

Quantity water delivered from Commission's Works to water-users (excluding deliveries to Wimmera-Mallee and Other Domestic and Stock Systems)	557,625 acre feet.
---	--------------------

RURAL DISTRICTS—

Administered by Commission—

	Number of Districts.	Number of Farm Holdings.	Population.
Irrigation Districts	28	12,904	35,140
Waterworks Districts (including rural lands, Coliban System)	34	20,259	55,590
Flood Protection Districts	4	1,353* (41)	3,439* (66)
Drainage Districts	14	4,600* (5,404)	4,450* (18,064)
Totals	80 districts	39,116 holdings	98,610 persons

* Excluding figures in brackets which show the number of holdings and population in respect of lands also within an Irrigation District.

URBAN DISTRICTS—

Reticulated pipe supplies for domestic and industrial purposes—

	Number of Towns.	Population.
Administered by Commission	126	134,340 persons
" " Waterworks Trusts	116	233,430 "
" " Local Governing Bodies	16	79,550 "
Totals	258 towns	447,320 persons

SEWERAGE AUTHORITIES—

	Number of Towns.	Population.
Controlled by Local Authorities supervised by Commission	21 (Systems operating) 6 (Systems partly operating) 13 (Systems not operating)	164,300 persons 13,400 " 32,450 "
Totals	40 towns	210,150 persons

CAPITAL LIABILITY FOR WATER SUPPLY—

Total to 30th June, 1946—(a) Borne by the State	£26,345,536
(b) Borne by the Districts	£2,565,738
Total	£28,911,274

WAR SERVICE 1939-45.

COMMISSION'S STAFF.

DIED ON SERVICE.

Name.	Rank.	Arm of Service.
Commissioner Robertson, W. A.	Group Captain	Air Force
Dickinson, K. J. (Prisoner of War)	Sapper	Army
Golding, R. U.	Private	Army
Ritchie, G...	Flying Officer	Air Force
Stafford, H. M.	Flight Lieutenant	Air Force
Swift, S. C.	Flying Officer	Air Force
Watson, J. (Prisoner of War)	Private	Army

SERVED WITH THE ARMED FORCES.

COMMISSIONED OFFICERS.

No.	Name.	Rank.	Arm of Service.
1	Abbott, P. H.	Captain	Army
2	Binks, C. Q.	Lieutenant	Army
3	Bray, A. F.	Flight Lieutenant	Air Force
4	Brommeyer, J. R.	Sub-Lieutenant	Navy
5	Caffrey, H. W.	Lieutenant	Army
6	Campbell, B. M.	Captain	Army
7	Clark, D.	Lieutenant-Colonel	Army
8	Cullinan, Miss N.	Lieutenant	Australian Service Women's Army
9	Cummins, J. J.	Captain	Army
10	Creighton, W.	Lieutenant	Army
11	Deveson, E. G., D.C.M.	Major	Army
12	Drummond, R.	Major	Army
13	Dunn, R. C. C.	Captain	Army
14	Field, H. B.	Lieutenant-Colonel	Army
15	Findlay, K. E.	Lieutenant	Army
16	Fitz Gerald, P. E.	Flight Lieutenant	Air Force
17	Forbes, I. G.	Captain	Army
18	Gillard, M. E.	Lieutenant	Army
19	Green, K. D.	Captain	Army
20	Grigg, T. P.	Captain	Army
21	Hodgson, F. C., M.I.D.	Commander	Navy
22	Horsfall, R. A., M.B.E.	Major	Army
23	Horwood, J. F.	Captain	Army
24	Inglis, E. R.	Captain	Army
25	Jackson, R. J.	Captain	Army
26	Kefford, R. O.	Flight Lieutenant	Air Force
27	Knight, R. G., M.C.	Lieutenant-Colonel	Army
28	Lang, J. D.	Lieutenant	Army
29	Lawrence, C.	Brigadier	Army
30	Mason, R. G.	Captain	Army
31	Mathew, J. M.	Lieutenant-Colonel	Army
32	Meyer, E. R.	Lieutenant	Army
33	Myers, R. A.	Lieutenant-Colonel	Army
34	Michaelson, E. F.	Lieutenant	Navy
35	Murray, C. S.	Major	Army
36	McPherson, C. J. B.	Flight Lieutenant	Air Force
37	McLean, G. D.	Captain	Army

No.	Name.	Rank.	Arm of Service.
38	Nolan, D. F., M.I.D.	Flying Officer	Air Force
39	Nolan, D. J.	Lieutenant	Army
40	Nolan, M. M.	Flying Officer	Air Force
41	Paul, A. C.	Lieutenant	Army
42	Phillips, I. J.	Flying Officer	Air Force
43	Peart, L. C., D.F.C.	Flying Officer	Air Force
44	Pittard, J. H.	Flying Officer	Air Force
45	Rayner, L. J.	Flying Officer	Air Force
46	Rigg, A. H.	Lieutenant	Army
47	Richmond, R. H.	Lieutenant	Army
48	Robinson, C. C.	Captain	Army
49	Robinson, P.	Lieutenant	Army
50	Rogerson, F.	Colonel	Army
51	Rogerson, S. W.	Lieutenant-Colonel	Army
52	Ronalds, A. F.	Captain	Army
53	Ruthven, W., V.C.	Major	Army
54	Ryan, M. J.	Lieutenant	Army
55	Scealy, G. J.	Flying Officer	Air Force
56	Schwarzman, L. R.	Lieutenant	Army
57	Simmons, R. C.	Lieutenant	Army
58	Standish, J. H.	Captain	Army
59	Stevens, V. T.	Captain	Army
60	Stinton, R. A.	Captain	Army
61	Strom, A. G.	Lieutenant	Army
62	Sullivan, J. T.	Lieutenant	Army
63	Sundercombe, J. C. R.	Lieutenant-Commander	Navy
64	Swanson, V. G., M.I.D.	Major	Army
65	Tancoe, J. W.	Lieutenant	Army
66	Taylor, F. G.	Lieutenant	Army
67	Thompson, L. B.	Lieutenant	Army
68	Tricks, A. F.	Lieutenant	Army
69	Venables, J. R. C.	Captain	Army
70	Ward, K. J.	Lieutenant	Army
71	Warner, N. M.	Flying Officer	Air Force

OTHER RANKS.

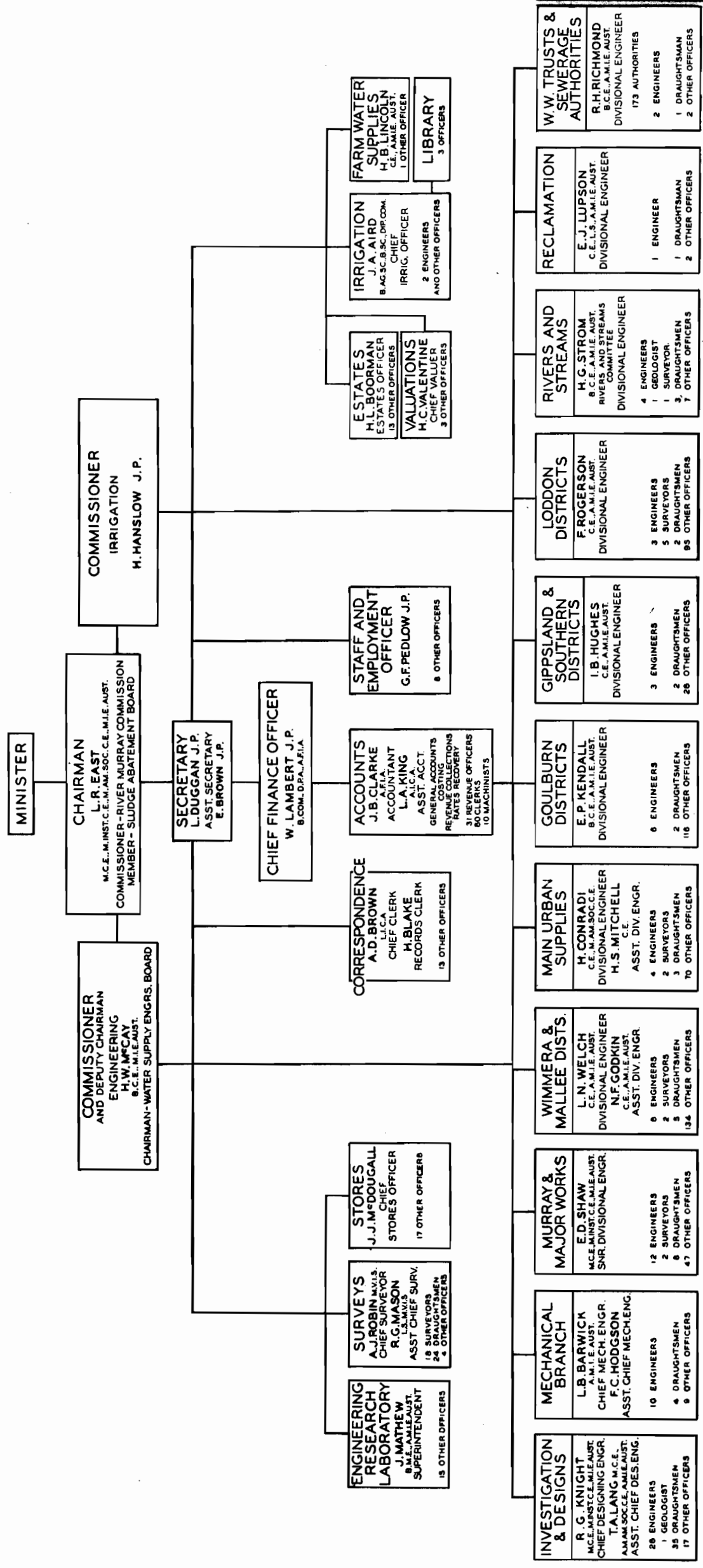
72	Affleck, R. H.	Leading Aircraftsman	Air Force
73	Anders, L. C.	Corporal	Army
74	Allinson, R. Y.	Warrant Officer I.	Army
75	Ashworth, J. R.	Private	Army
76	Baghel, E. G.	Private	Army
77	Baker, I. G.	Leading Aircraftsman	Air Force
78	Barlow, A. W.	Private	Army
79	Bell, W. J.	Private	Army
80	Bent, J. H.	Private	Army
81	Beynon, A. R.	Leading Aircraftsman	Air Force
82	Binion, L.	Leading Aircraftsman	Air Force
83	Bird, R.	Ordinary Telegraphist	Navy
84	Boyd, A. G.	Staff Sergeant	Army
85	Briggs, R. W.	Warrant Officer I.	Army
86	Brodie, W. J.	Sergeant	Army
87	Byham, J. H.	Sergeant	Army
88	Callanan, T.	Sapper	Army
89	Cameron, J. D.	Leading Aircraftsman	Air Force
90	Campbell, J.	Private	Army
91	Carrigan, P.	Gunner	Army
92	Carter, J.	Private	Army
93	Champion, A. B.	Sergeant	Army
94	Chirgwin, W. S.	Lance Corporal	Army
95	Clarke, J.	Warrant Officer II.	Army
96	Compton, Miss P.	Private	Australian Service Women's Army
97	Conway, J. P.	Sergeant	Air Force
98	Cope, A. A.	Corporal	Air Force
99	Corlett, H. M.	Sapper	Army
100	Coutts, J. P.	Sergeant	Air Force
101	Cromwell, E. D.	Able Seaman	Navy
102	Curnick, H. E.	Warrant Officer I.	Army
103	Curry, L. L.	Warrant Officer II.	Army

No.	Name.	Rank.	Arm of Service.
104	Crow, A. E.	Sapper	Army
105	Daniel, K. E.	Coder	Navy
106	D'Arcy, W.	Private	Army
107	Davies, S.	Leading Aircraftsman	Air Force
108	Deveson, H.	Sergeant	Air Force
109	Deveraux, W. L.	Sergeant	Army
110	Dodds, J. E.	Warrant Officer	Air Force
111	Doyle, N. L.	Writer	Navy
112	Duffy, J. M.	Corporal	Army
113	Edmonds, R. R.	Lance Sergeant	Army
114	Elliott, A. W.	Warrant Officer	Air Force
115	Farish, J. J.	Corporal	Air Force
116	Finley, H. J.	Staff Sergeant	Army
117	Foley, J. D.	Corporal	Army
118	Forristal, T. J.	Warrant Officer	Air Force
119	Fowles, J. H.	Private	Army
120	Gillespie, P. M.	Warrant Officer II.	Army
121	Graham, S. G. E.	Sergeant	Army
122	Haldane, A. D.	Sergeant	Army
123	Hansford, A. T.	Sergeant	Army
124	Hawkins, G. A.	Private	Army
125	Hickey, H. R.	Leading Aircraftsman	Air Force
126	Hickey, W. A.	Leading Aircraftsman	Air Force
127	Hicks, J. H.	Leading Aircraftsman	Air Force
128	Hook, L. W.	Leading Aircraftsman	Air Force
129	Horadam, W. J.	Private	Army
130	Horridge, W. J.	Gunner	Army
131	Hoysted, R. E.	Ordinary Telegraphist	Navy
132	Jackson, Miss B. M.	Corporal	Australian Women's Army Service
133	Jackson, R. A.	Private	Army
134	James, P. M.	Leading Aircraftsman	Air Force
135	Johnson, R. F. L.	Flight Sergeant	Air Force
136	Jones, C. J.	Flight Sergeant	Air Force
137	Jones, V. R.	Sergeant	Army
138	Kehoe, D. J.	Leading Aircraftsman	Air Force
139	Kelsey, G. W.	Aircraftsman I.	Air Force
140	Kennedy, A. E.	Sapper	Army
141	Kenyon, W. B.	Private	Army
142	Ladd, J. E. J.	Private	Army
143	Lawrence, B. F.	Sapper	Army
144	Lewis, G. W. V.	Flight Sergeant	Air Force
145	Longstaff, E. B.	Sapper	Army
146	Lynch, Miss L. I.	Sergeant	Women's Australian Auxillary Air Force
147	Marr, C. D.	Private	Army
148	Meadows, R. W.	Staff Sergeant	Army
149	Moon, G. A.	Sergeant	Army
150	Moore, B. D.	Able Seaman	Navy
151	Moore, B. F. G.	Able Seaman	Navy
152	Morgan, A. M.	Warrant Officer I.	Army
153	Murphy, A. J.	Corporal	Army
154	McAuley, J. N.	Warrant Officer	Air Force
155	McCallum, A. R.	Sapper	Army
156	McCannon, B. C.	Sergeant	Army
157	McEniff, P. J.	Leading Aircraftsman	Air Force
158	Newton, R.	Private	Army
159	Noonan, Miss P. T.	Writer	Women's Royal Australian Naval Service
160	Nuttall, C. G.	Sergeant	Army
161	O'Halloran, B. J.	Leading Aircraftsman	Air Force
162	O'Keefe, T. W.	Warrant Officer I.	Army
163	O'Sullivan, G. O.	Leading Aircraftsman	Air Force
164	Pettit, W. T.	Leading Aircraftsman	Air Force
165	Purton, R. H.	Private	Army
166	O'Connor, R. E.	Corporal	Air Force
167	O'Connor, V. J.	Corporal	Army
168	O'Heare, J. N.	Private	Army
169	O'Leary, J. A.	Sergeant	Army
170	Perry, K. J.	Sergeant	Air Force
171	Philbrick, R. H. T.	Warrant Officer	Air Force
172	Phillips, C. W. M.	Corporal	Army

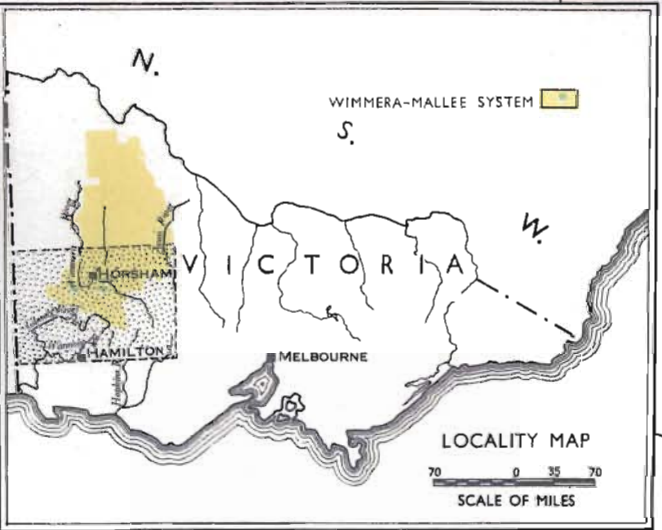
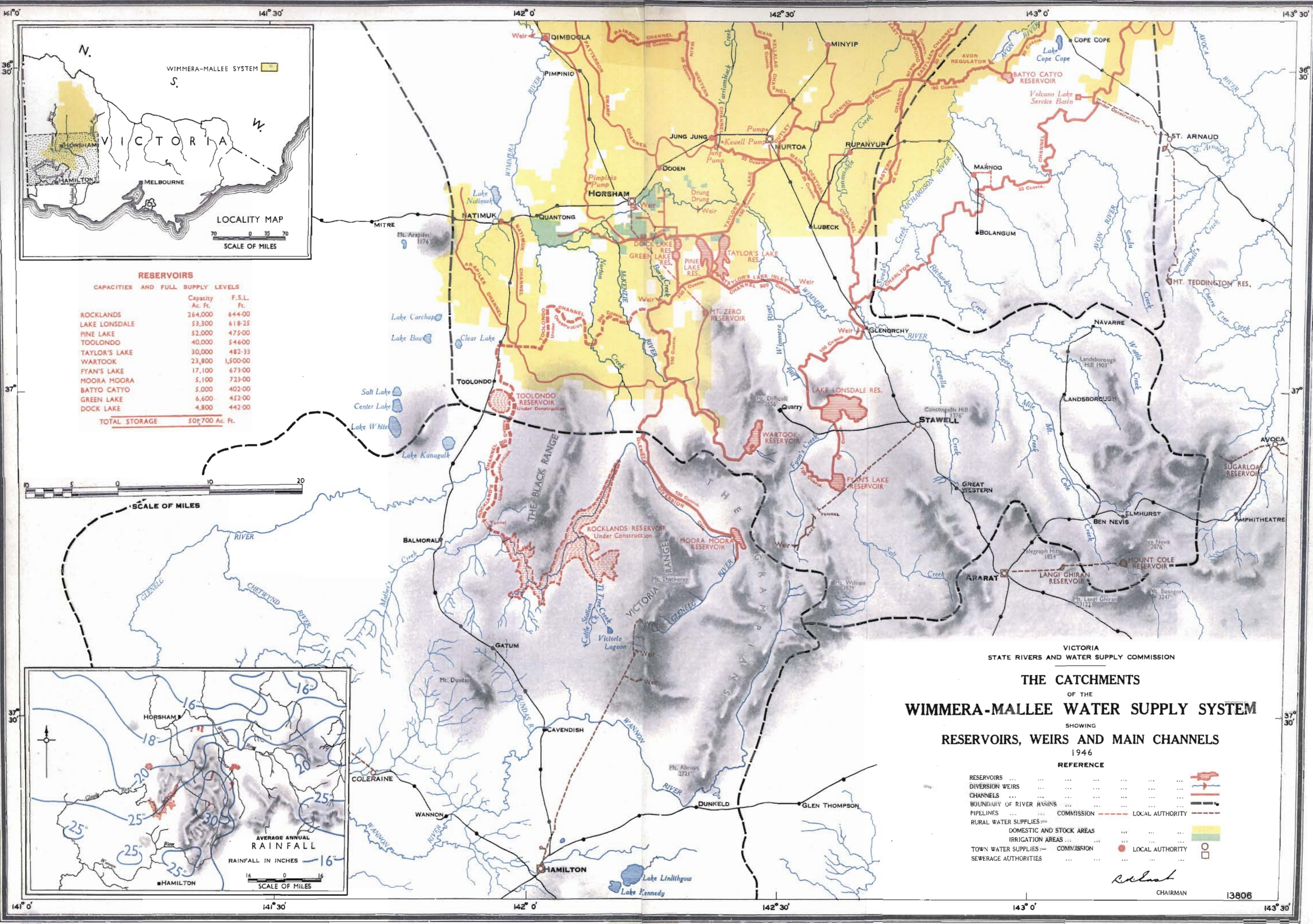
No.	Name.	Rank.	Arm of Service.
173	Plant, R. J.	Sick Berth Attendant ..	Navy
174	Porter, W. R.	Warrant Officer II. ..	Army
175	Priestley, F. R.	Telegraphist	Navy
176	Reilly, L. A.	Private	Army
177	Riley, C. D.	Ordinary Seaman	Navy
178	Rouke, G. H. P.	Private	Army
179	Serpell, J. R.	Flight Sergeant	Air Force
180	Shaw, J. L. P.	Staff Sergeant	Army
181	Shaw, S. G.	Flight Sergeant	Air Force
182	Sherriff, R. A.	Sergeant	Army
183	Simpson, R. W.	Aircraftsman II.	Air Force
184	Sims, A. M.	Sergeant	Army
185	Smith, N. A.	Staff Sergeant	Army
186	Soulsby, J. H.	Corporal	Army
187	Sullivan, J. F.	Sapper	Army
188	Swan, R. A.	Staff Sergeant	Army
189	Sydes, J. R.	Writer	Navy
190	Taylor, B. P.	Company Quarter Master Sergeant	Army
191	Thomson, R. C.	Sergeant	Army
192	Thorley, G. A. E.	Leading Aircraftsman ..	Air Force
193	Threlfall, S. W. R.	Acting Sergeant	Air Force
194	Trewartha, H. H.	Sergeant	Army
195	Wadsworth, H. K.	Signaller	Army
196	Wallace, A.	Corporal	Army
197	West, J. N.	Leading Aircraftsman ..	Air Force
198	White, R. C.	Private	Army
199	Wilde, F.	Sergeant	Army
200	Williamson, A. B.	Staff Sergeant	Army
201	Wilson, W. J.	Leading Aircraftsman ..	Air Force
202	Wood, E. R.	Sergeant	Air Force
203	Wyndham, D. N.	Warrant Officer I. ..	Army

ORGANIZATION OF THE STATE RIVERS AND WATER SUPPLY COMMISSION

1946

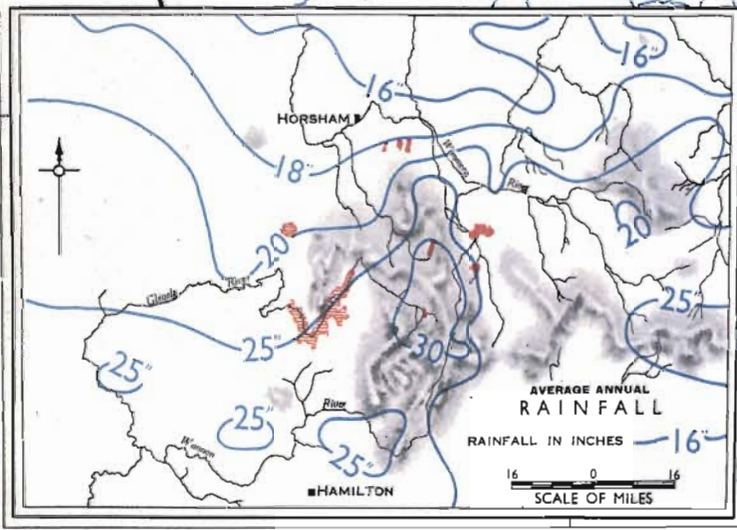


STAFF TOTALS ARE AS AT 30-6-1946



RESERVOIRS
CAPACITIES AND FULL SUPPLY LEVELS

	Capacity Ac. Ft.	F.S.L. Ft.
ROCKLANDS	264,000	644-00
LAKE LONSDALE	53,300	618-25
PINE LAKE	52,000	475-00
TOOLONDO	40,000	546-00
TAYLOR'S LAKE	30,000	482-33
WARTOOK	23,800	1,500-00
FYAN'S LAKE	17,100	673-00
MOORA MOORA	5,100	723-00
BATYO CATYO	5,000	402-00
GREEN LAKE	6,600	452-00
DOCK LAKE	4,800	442-00
TOTAL STORAGE	509,700	Ac. Ft.



VICTORIA
STATE RIVERS AND WATER SUPPLY COMMISSION

THE CATCHMENTS
OF THE
WIMMERA-MALLEE WATER SUPPLY SYSTEM

SHOWING
RESERVOIRS, WEIRS AND MAIN CHANNELS
1946

REFERENCE

RESERVOIRS	...	...	...	...	...	...	...	...	...
DIVERSION WEIRS	...	...	...	...	...	...	...	...	...
CHANNELS	...	...	...	...	...	...	...	...	...
BOUNDARY OF RIVER BASINS	...	...	...	...	...	...	...	...	...
PIPELINES	...	...	...	...	...	...	...	...	...
RURAL WATER SUPPLIES	...	...	...	...	...	...	...	...	...
DOMESTIC AND STOCK AREAS	...	...	...	...	...	...	...	...	...
IRRIGATION AREAS	...	...	...	...	...	...	...	...	...
TOWN WATER SUPPLIES	...	...	...	...	...	...	...	...	...
SEWERAGE AUTHORITIES	...	...	...	...	...	...	...	...	...

CHAIRMAN

13806