

1950-1951.

VICTORIA.

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STATE RIVERS AND WATER SUPPLY COMMISSION.

---

FORTY-FIFTH  
ANNUAL REPORT,  
1949-50.

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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,

22nd December, 1950

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## ANNUAL REPORT, 1949-50.

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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 1949-50, 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., M.I.W.E.

J. A. AIRD, Commissioner.

B.Sc., B.Agr.Sc., Dip.Com.

L. DUGGAN, J.P., Secretary.

# TABLE OF CONTENTS

SUMMARY OF REPORT .. .. .	PAGE. 5-6
<b>Part I.</b>	
<b>GENERAL—</b>	
Outline of Report .. .. .	7-10
Legislation .. .. .	10
Parliamentary Public Works Committee—	
Campaspe River—Eppalock Reservoir .. .. .	10
Enlargement Hume Reservoir—Tallangatta Township .. .. .	11
Maffra-Sale Irrigation and Water Supply District .. .. .	11
Carrum Drainage District .. .. .	11
River Murray Commission .. .. .	11
Snowy River Waters—Utilization .. .. .	12
Sludge Abatement Board .. .. .	13
Regional Planning .. .. .	13
Administration—Staff .. .. .	13, 120
Irrigation—Production and Development, Season 1948-49 .. .. .	14
Competitions .. .. .	15
Soil Surveys and Investigations .. .. .	15
Research and Investigation in Irrigated Agriculture .. .. .	15
District Advisory Boards .. .. .	16
Irrigation Production Advisory Committee .. .. .	16
New Districts .. .. .	16
<b>Part II.</b>	
<b>WATER SUPPLY—</b>	
Water Distribution .. .. .	17
Private Diversions .. .. .	17
Advisory Committees .. .. .	18
Irrigation Districts—	
Goulburn Division .. .. .	18-20
Loddon Division .. .. .	20-21
Gippsland and Southern Division .. .. .	21-23
Wimmera-Mallee Division .. .. .	23-26
Pumping Stations .. .. .	26
Official Mission to Britain .. .. .	27
International Water Supply Conference, Amsterdam .. .. .	27
Investigations and Designs .. .. .	27-30
Hydraulic Research .. .. .	31
Surveys .. .. .	31
Major Works Construction .. .. .	31
Construction Branch .. .. .	32-33
Eildon Branch .. .. .	34
Construction Plant and Machinery .. .. .	35
Town Water Supplies .. .. .	35-38
Waterworks Trusts and Local Governing Bodies .. .. .	38-39
Sewerage Authorities .. .. .	39-40
Drainage and Flood Protection Works .. .. .	40-41
River Improvement .. .. .	41-42
Water Supply Catchments .. .. .	42
Farm Water Supplies .. .. .	43
Engineering Research .. .. .	44-45
Land Valuations .. .. .	45-47
Transport .. .. .	47
Library .. .. .	47
Housing .. .. .	48
First Mildura Irrigation Trust .. .. .	48
<b>Part III.</b>	
<b>RATING AND FINANCE—</b>	
Rating—	
Statement of Rates and Charges with Valuations of Lands and Populations in Districts .. .. .	49-56
Finance—	
Summary of Financial Position .. .. .	57-63
Summary of Receipts and Disbursements 1949-50 .. .. .	66-69
Districts Cash and Profit and Loss Accounts 1949-50 .. .. .	70-86
Districts Balance Sheets as at 30th June, 1950 .. .. .	87-98
Statement of Revenue Showing Arrears .. .. .	99
Water Supply Works Depreciation Accounts .. .. .	100-103
Capital Expenditure 1949-50 .. .. .	104-106
Loan Capital Liability as at 30th June, 1950—	
Free Headworks .. .. .	108
Capital Works and Charges not Apportioned to Districts .. .. .	108
Headworks .. .. .	109
Irrigation and Water Supply Districts .. .. .	110
Urban Divisions .. .. .	112
Waterworks Districts .. .. .	112
Urban Districts .. .. .	112-113
Flood Protection Districts .. .. .	113
Drainage Districts .. .. .	114
Waterworks Trusts and Local Governing Bodies .. .. .	114
Summary of Statement of Loan Liability as at 30th June, 1950 .. .. .	115
Capital Expenditure—1st May, 1906, to 30th June, 1950 .. .. .	116-117
Estimates for Year 1950-51 .. .. .	118
Contracts .. .. .	119
<b>APPENDICES—</b>	
A, B, C, D, E, F, G .. .. .	123-129
Photographs illustrating various phases of country water supply .. .. .	130

# ANNUAL REPORT

OF THE

## STATE RIVERS AND WATER SUPPLY COMMISSION

FOR

YEAR ENDED 30TH JUNE, 1950.

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### SUMMARY OF REPORT.

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The State Rivers and Water Supply Commission was constituted on 1st May, 1906, under the provisions of the Water Act 1905.

#### WATER SUPPLY.

The total capacity of water storages controlled by the Commission is 1,974,260 acre feet, including Victoria's half share of River Murray storages.

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 is 15,359,700 acres.

The Commission's storages contained 1,240,610 acre feet at 1st July, 1949, and, at 30th June, 1950, they contained 1,583,715 acre feet.

Total water deliveries for the year from the Commission's irrigation systems were 506,016 acre feet.

The number of diversions from streams issued under long-term licences and annual permits totalled 3,184.

#### DOMESTIC AND STOCK SUPPLIES.

The Wimmera Mallee Waterworks System supplies water for domestic and stock purposes to almost the whole of the region known as the Wimmera, and to large portions of the Mallee districts serving in all some 11,000 square miles of land used for wheat farming and pastoral pursuits.

#### IRRIGATION PRODUCTION AND DEVELOPMENT.

The area irrigated during the year was 659,079 acres.

Production from irrigated lands for year 1948-49 was £17,900,000.

#### NEW PROJECTS.

Tenders were invited throughout the world on 25th February, 1950, for the construction of the new Eildon Dam under either a Schedule of Rates Contract or a Cost-Plus Fixed Fee Contract with a Target Estimate, Bonuses, and Incentives. Tenders closed at 12 noon on the 30th June, 1950, 8 being received, 4 from Great Britain, 3 from United States of America, 1 of the latter being in association with an Australian firm, and 1 from New Zealand. It is expected that the contract will be placed early in August, 1950.

Substantial progress was made on other projects during the year.

#### MAIN PUMPING STATIONS.

Tenders were called for complete new electric motor-driven pumping plant for Red Cliffs to be supplied with power from the Mildura Central generating plant.

#### TOWN SUPPLIES.

Towns in the State having a reticulated water supply number 264, with a total population of 470,290. Of these towns, 129 are administered by the Commission and the balance, 135, by Local Governing Bodies.

#### SOLDIER SETTLEMENT.

Sub-division of blocks in the Soldier Settlement area in the Murray Valley district is proceeding, 250 having already been allotted.

Construction of the Robinvale Soldier Settlement which commenced in January 1947, is progressing satisfactorily, 79 blocks having already been allotted.

**FINANCE.**

The total receipts for water rates and charges for the financial year 1949-50, amounted to a record of £1,008,378, the previous highest collection being £880,147 in 1948-49. Other receipts amounted to £425,183.

The net Loan Liability of the State for works of water supply and drainage at 30th June, 1950, was £39,033,778, exclusive of equity in National Debt Sinking Fund.

Of the net Loan Liability at 30th June, 1950, £2,470,166 is charged to Waterworks Trusts and other Local Governing Bodies; £1,133,227 is debited to districts including Central Plant Workshops, Bendigo, directly controlled by the Commission; £1,186,240 is debited to the Plant and Machinery Account; and the balance, £34,244,144, is borne by the State.

The total Interest Charges for 1949-50 amounted to £1,391,236.

Waterworks Trusts and Local Governing Bodies paid to the Treasury as interest on loans the sum of £81,752.

In addition, Interest amounting to £25,994 in respect of Districts and Divisions under its control was met by the Commission.

In districts, the capital liability of which has been adjusted, the operations for the year resulted in a net loss of £74,107 after providing for interest, redemption, and depreciation.

A loss of £118,946 was incurred in operating districts to which the supply was continued by direction of Governor in Council. This amount was debited to the "Revenue Expenditure Chargeable to the State Account".

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 £1,370,333.

The value of stores and equipment held in the Stores Suspense Account as at 30th June, 1950, was £670,921.

The value of movable plant and machinery held in the Plant and Machinery Account as at 30th June, 1950, was £1,168,242.

A sum of £66,441 was paid into Consolidated Revenue in respect of depreciation payments by Commission's Districts for the year 1949-50.

The amount at credit of Water Supply Plant and Machinery Depreciation Fund as at 30th June, 1950, was £291,262.

The arrears of water rates and charges outstanding at 30th June, 1950, was £226,190.

The amount included in the Budget Estimate for 1950-51 for Vote Expenditure on works and services under the control of the Commission is £1,735,750. This amount is £100,000 less than the Commission's estimated requirements.

**RATING.**

The total net annual valuation of properties within Irrigation and Waterworks Districts and Urban Districts and divisions thereof, including the Collban System, amounted to £4,447,130, indicating a total capital value of over £88,000,000.

The total number of rating assessments in the districts supplied with water by the Commission is £81,611, and the total number of assessments in Drainage and Flood Protection Districts is 6,302.

### PART I.—GENERAL.

The period covered by this Report—from the 1st July, 1949, to the 30th June, 1950—has been not only one of the most important in the history of the Commission, but also one of the most difficult.

Expenditure on developmental works for the year was £4,149,497, almost double that of the previous year which itself was much greater than had ever been incurred before by the Commission in a single year. This great increase in expenditure has, however, been due in part to rising costs, which have also seriously affected the operation of established irrigation and other works.

The construction of new works may be more spectacular, but it is upon the efficient maintenance and operation of completed works that the prosperity of the country depends, and very great increases in costs of labour and materials have resulted in a serious threat to the maintenance of essential water supplies in most parts of the State.

As has been indicated in previous Annual Reports, staff shortages have retarded the planning and construction of new works, but the Commission regards far more seriously the effect of rising costs on the maintenance and operation of the reservoirs, channels, drains, pumping plants, and other works, whose maintenance in a state of high efficiency is essential. Any deterioration in the efficiency of these works will result in very great reductions in the incomes of water users, whose production—mostly of foodstuffs—is becoming an increasingly important factor in our national economy.

The financial position in regard to irrigation districts particularly was far from satisfactory at the commencement of the year, as, in all but a few districts, revenue from rates and charges—which had not been altered for very many years—had fallen far below what was necessary to meet the expenses of the districts.

The Water Acts require water rates and charges—which are made by the Commission and approved by order in Council—to be reviewed annually as in the case of municipal rates, and substantial increases in irrigation charges in practically all districts were unavoidable. The following statement shows the increases which were made during the year.

System.	District.	Irrigation Charge.	
		1948-49.	1949-50.
Goulburn ..	Shepparton, South Shepparton, Campaspe, Deakin, Rochester, Rodney, Tongala-Stanhope	6s.	10s.
	Katandra, North Shepparton, Calivil, Dingee, Tragowel Plains, Boort	7s.	10s.
Torrumbarry ..	Cohuna, Kerang, Koondrook, Swan Hill, Mystic Park, Third Lake, Fish Point	6s.	10s.
Murray Valley ..	Murray Valley .. .. .	10s.	10s.
Werribee ..	Werribee .. .. .	12s.	15s.
	Bacchus Marsh .. .. .	22s. 6d.	22s. 6d.
Gippsland ..	Maffra-Sale .. .. .	10s.	15s.
Pumping ..	Red Cliffs-Merbein .. .. .	85s. for 3 ac. ft.	120s. for 3 ac. ft.
	Nyah .. .. .	68s. 4d. for 2½ ac. ft.	100s. for 2½ ac. ft.
	Tresco .. .. .	28s. per ac. ft.	40s. per ac. ft.
	Robinvale .. .. .	36s. per ac. ft.	40s. per ac. ft.

Forty years ago, when the basic wage was less than 1s. per hour, the irrigation charges for most of the Northern Irrigation Districts were 5s. per acre foot, so that the revenue from one acre foot of water was then equivalent to more than *five hours of the work* of a labourer employed on the maintenance of the irrigation works.

Irrigation charges stayed at this level until 1921 when the irrigation charges in these districts were increased by 20 per cent. to 6s. and in other districts, which had been developed in the meantime and where the charge was already 6s., the increase was 17 per cent. to 7s. per acre foot. The basic wage had in the meantime been increased by approximately 50 per cent. so that the 6s. received from water represented only *four hours work of a labourer*.

Twenty-eight years later, the irrigation charges for the irrigation districts to which reference has been made were still 6s. and 7s. per acre foot as in 1921, although in the new Murray Valley Irrigation District the charge was 10s. per acre foot. In two districts, namely, Calivil and Katandra, which were developed after 1921 with an initial charge of 10s. per acre foot, the charge was actually reduced some ten years ago to 7s.

The minimum wage now paid by the Commission under industrial awards approximates 3s. 6d. per hour so that the 6s. which was being received for one acre foot of water as in most of the districts represented less than *two hours work*.

Since 1938, when all capital liabilities in respect of storages and channels were transferred from the water users to the State, no interest charges have been debited to the irrigators, and the irrigation districts have been charged only operating maintenance costs.

Had labour and material costs remained at the 1938 level it is possible that the revenue from the irrigation districts would have been sufficient even at these low charges for water to cover operating and maintenance costs, and actually during the war years when labour and materials were in very short supply, and only limited maintenance was possible, some districts built up accumulated credits. Others, however, of which Swan Hill and Shepparton are outstanding examples have fallen into arrears to a considerable extent.

Recent substantial increases in the cost of labour, equipment, and materials resulted in the development of a situation in which very few districts were meeting operating costs.

For many years prior to the Royal Commission of 1935-36, the irrigation districts had been starved for maintenance funds and the works had fallen into a deplorable state of inefficiency. However, as a result of very intense efforts on the part of the Commission to obtain funds, plant, and materials, the channel systems and drains have been very greatly improved—although there is still much to be done—and the effect on production has been amazing. It would be a national tragedy if the works were again allowed to fall into disrepair.

Although, next to the land itself, water is the essential requirement for production in the irrigation districts, the water rates and charges form probably the lowest or smallest item in the cost of production of what the irrigator sells. The increase last year in the price of water from 6s. to 10s. per acre foot only represented about one-half-penny per pound of butter fat produced, for which the irrigators received about 2s. 9d., or 1s. per ton of fruit produced for canning, for which the fruit grower received about £20, or one-sixth of a penny per case of tomatoes for which the market gardener received about 4s. 6d.

It might be pointed out also that irrigation rates and charges are a deduction from gross returns for income tax purposes, and that the irrigator's net income is therefore reduced only by a proportion averaging about a half of the actual increase in the accounts paid by them. In the case of an irrigator using 100 acre feet of water, the increased payment by him from 6s. to 10s. per acre foot would amount to £20, and the reduction in his net income would in most cases be less than  $1\frac{1}{2}$  per cent. In many cases of highly productive farms, orchards, or market gardens the reduction in net income resulting from  $66\frac{2}{3}$  per cent. increase in water charges would be less than three-quarters of one per cent.

There is no justification whatever for subsidizing operating costs in irrigation districts; the prices for most primary products are high and there has been a remarkable turnover in irrigation properties at very high figures even during the period when land price control was in operation.

It is evident by comparison of the rise in prices in irrigated as compared to non-irrigated areas that vendors are capitalizing not only the high prices of products but the low levels of water charges. In this respect it is most important that water charges should be on a proper basis.

The Commission has given careful consideration to the financial position of all districts and also to the present condition of the works—including drainage—in those districts, and expenditure anticipated over the next few years to bring them to maximum efficiency. Recent substantial orders placed for excavators and other machinery will enable these improvements to be put in hand in the near future as deliveries of plant are effected.

There are a few districts which have accumulated credits, but in these districts there is a very large amount of arrears of maintenance to be overtaken which will absorb the whole of the available credits within a very few years.

There were substantial increases in drainage rates in the previous year and no further increases were made during the year under review although drainage maintenance is becoming a very difficult problem.



### WATERWORKS DISTRICTS.

Rates for a number of waterworks districts were increased in the previous year and, although revenues from many of these districts including all in the Mallee fall considerably short of operating costs, no further increases were made during 1949-50 as the districts are being operated by the Commission at a loss by direction of the Governor in Council under the provisions of Section 6, Sub-section 1, Act No. 4513.

### URBAN DISTRICTS.

The position in regard to the urban districts is fairly satisfactory owing to increasing revenue due to rapid development and rising valuations on which rates are based, and most of the districts controlled by the Commission are overtaking arrears.

Increases in water rates were necessary in only twelve districts out of ninety. In most of these cases, the increases were up to the arbitrary maximum of 3s. 6d. in the £1 which already applied to a number of other districts.

### FLOOD PROTECTION DISTRICTS.

The maintenance position is not satisfactory, but as these districts had accumulated surplus which were drawn upon to overtake arrears of maintenance, no increases in rates or charges were made, although it is evident that the credits will soon be exhausted and that rates and charges will soon have to be doubled to meet maintenance costs. The present rates and charges are, however, at a very low level when compared with rates and charges on comparable lands in irrigation districts and the increase in productivity as a result of the works equally marked.

### EFFECT OF RISING COSTS ON CONSTRUCTION AND MAINTENANCE.

The following table shows actual expenditure on new works and on maintenance and operation of existing works for each year since the end of hostilities in 1945, and an approximate estimate of what these works and operations would have cost at 1945-46 cost levels.

Financial Year.	Expenditure.		Total.	Equivalent Total at 1945-46 Cost Levels.	Total as Ratio to 1945-46 Total.
	New Works.	Maintenance and Operation.			
	£	£	£	£	
1945-46 .. .. .	432,906	1,127,881	1,520,787	1,560,787	1.00
1946-47 .. .. .	1,466,122	1,109,300	2,575,422	2,060,338	1.32
1947-48 .. .. .	1,893,165	1,253,917	3,147,082	2,231,973	1.43
1948-49 .. .. .	2,251,874	1,354,930	3,606,804	2,297,327	1.48
1949-50 .. .. .	4,149,497	1,550,883	5,700,380	3,276,080	2.10

The following table showing staff changes over the same period gives some indication of the Commission's difficulties in the way of planning and supervising construction and operation of works. Although work has been more than doubled, the staff has been expanded in number by only 28 per cent. Many men have had to be diverted from planning, and a very large amount of overtime has had to be worked by all sections of the staff.

### STAFF.

Financial Year.	Permanent and Temporary Officers.				Staff Numbers as Proportion of 1945-46.
	Professional Officers.	Clerical Officers.	General.	Total.	
1945-46 .. .. .	275	205	496	976	1.00
1946-47 .. .. .	293	198	530	1,021	1.02
1947-48 .. .. .	316	216	554	1,086	1.12
1948-49 .. .. .	355	247	588	1,190	1.22
1949-50 .. .. .	372	239	640	1,251	1.28

A serious feature of the staff position is that over the period of five years indicated no fewer than 174 professional officers resigned including 67 who held University Degrees, Technical School Diplomas, or other professional qualifications. This was in addition to the number of professional officers who retired or died in that period.

Although the figures in the statement of staff numbers show continuing increases over the years, it must be pointed out that many of the men who have resigned were men with years of experience who were able to take responsible charge of major works, while most of the new appointees, although qualified, were young men who had little or no practical experience in regard to water supply before joining the Commission's staff.

### LEGISLATION.

The following Acts affecting the Commission were passed by Parliament in the 1949-50 session :—

Act No. 5411.—An Act to amend the *Soil Conservation and Land Utilization Act 1947*.

The Principal Act, which this amending Act brings into operation, makes provision amongst other things for a Land Utilization Advisory Council composed of representatives of various State Authorities. The duties of this Council are—

- (a) To make recommendations to the Authority as to the constitution and definition of catchment areas ; and
- (b) To advise the Minister and the Authority concerning policy as regards the use of land (whether Crown Land or land otherwise vested) in any catchment area.

The Act provides that the Chairman of the State Rivers and Water Supply Commission shall be a member of this Council.

Act No. 5414.—An Act to provide for the Establishment of a Rural Finance Corporation.

The objects of this Act amongst other things are to make advances by way of loan to persons including farmers engaged or to be engaged in the carrying out of any country industry.

The Farm Water Supplies Advances Act of 1944, which was administered jointly by the Lands Department and State Rivers and Water Supply Commission, became inoperative on the passing of Act No. 5414 and advances previously made by the Lands Department, after consultation with the Commission, are now made by the Rural Finance Corporation.

Act No. 5424.—An Act to amend the *Barwon River Improvement Act 1939*, and for other purposes.

This Act provides for the rating of properties concerned on either the net annual value basis or unimproved capital value basis, and also empowers the Geelong Waterworks and Sewerage Trust to borrow money (not to exceed £20,000 at any one time) on the credit of rates which the Trust is authorized to make and levy under this Act.

Reference was made in the 1948-49 Annual Report to Act No. 5321—an Act relating to Land in the North-West Mallee and for other purposes.

The Committee set up under this Act to make recommendations to the Government on the re-allocation of lands in the North-West Mallee Settlement Area, presented its report in July, 1949. This report was adopted by the Government and the re-allocation of blocks and implementation of the settlement scheme in accordance with this Report is proceeding.

### PARLIAMENTARY PUBLIC WORKS COMMITTEE.

#### EPPALOCK RESERVOIR—CAMPASPE RIVER.

On 5th July, 1949, the Government approved of the recommendations of the Parliamentary Public Works Committee for the enlargement of the Eppalock Reservoir to 200,000 acre feet. Details of the Committee's recommendation were set out on page twelve of the Commission's last Annual Report (1948-49).

#### ENLARGEMENT OF HUME RESERVOIR—TALLANGATTA TOWNSHIP.

The Parliamentary Public Works Committee continued its inquiry on the question of the effect of the enlargement of Hume Reservoir on Tallangatta township and in February, 1950, recommended to the Government—

- (1) that township of Tallangatta be transferred to a site in vicinity of Bolga, the exact location of which will be decided by Authority appointed to carry out planning and construction of the various works involved ;
- (2) that road and railway deviations as delineated in brown and green respectively on Plan No. 2 be undertaken at approximate cost of £580,000 ;
- (3) that planning and construction of the various works involved be undertaken by State Rivers and Water Supply Commission ;
- (4) that legislation be enacted to provide for—
  - (a) acquisition of lands necessary for proper planning and development of new township ;
  - (b) payment of compensation to owners of submerged and acquired land, residences, and buildings at market value of such properties at date of transfer, plus a fair and equitable amount for compulsory taking over of their properties in interests of the State ;
  - (c) payment of compensation to owners of residences and other buildings located in that portion of township of Tallangatta which, although not submerged, will be detrimentally affected in event of main portion of township being transferred to another site ;
  - (d) the cost or an appropriate proportion thereof of transferring public buildings to new site being met by the Authority appointed to carry out planning and construction of various works involved.

This recommendation is being considered by the Government.

#### MAFFRA-SALE IRRIGATION AND WATER SUPPLY DISTRICT.

On 21st March, 1950, the Parliamentary Public Works Committee was asked to enquire and report on the following matters—

- (a) the practicability of bringing a large additional area of land under irrigation in the Maffra-Sale District ; and
- (b) any other matters which appear to the Committee to be relevant to the enquiry.

The enquiry is proceeding.

#### CARRUM DRAINAGE DISTRICT.

In November, 1949, the Governor in Council directed the Parliamentary Public Works Committee to enquire and report as to—

- (a) the practicability and cost of improving the drainage of low lying lands in the Carrum Drainage District with particular reference to residential lands in the City of Chelsea.
- (b) the desirability of controlling the further sub-division for residential purposes of such low lying lands.
- (c) the desirability or otherwise of providing for local control of the works of the drainage district.

The enquiry is proceeding.

#### RIVER MURRAY COMMISSION.

Meetings of the River Murray Commission throughout the year have been attended by Mr. L. R. East, as Victorian representative on the Commission.

In January, 1950, the River Murray Commission made its first appointment of a full-time Executive Engineer to regulate the discharge of Hume Reservoir and to supervise the distribution of the Murray waters between the three States in accordance with the River Murray Agreement. Prior to this date, these functions were performed by the State Rivers and Water Supply Commission on behalf of the River Murray Commission.

The 1949 amendment of the River Murray Agreement authorized the enlargement of Hume Reservoir to 2,000,000 acre feet capacity, and plans have been prepared by the State Rivers and Water Supply Commission for the raising of the present Hume embankment and the construction of an additional embankment required across a low saddle on the Victorian side of the river.

Owing to shortage of staff, the State Rivers and Water Supply Commission has been unable itself to undertake the construction work involved, but has fortunately been able to arrange for this work in Victoria to be done by the New South Wales Public Works Department which will be installing hydro-electric plant on the main dam on the New South Wales side.

At the Conference of the Commonwealth and State Ministers held at Canberra on the 13th July in connection with the diversion of the Snowy River, it was decided that additional storage capacity of not less than 1,500,000 acre feet should be provided on the Upper Murray to balance the inflow from the Snowy and at the same time to provide for fuller regulation of the flow of the Upper Murray. At the request of the River Murray Commission, the State Rivers and Water Supply Commission has undertaken a comprehensive investigation of possible sites on the Upper Murray and its tributaries in order to ascertain where the additional storage capacity required can best be provided having regard to all the factors involved, including production losses from lands which would be submerged, value of hydro-electric power produced and cost of the works involved.

#### UTILIZATION OF SNOWY RIVER WATERS.

In the last Annual Report reference was made to the investigations being carried out by the Snowy River Committee which comprised representatives of the Commonwealth and States of New South Wales and Victoria. The Victorian representatives were the Chairman of the State Rivers and Water Supply Commission, Mr. L. R. East, and the Chief Engineer of the State Electricity Commission, Mr. E. Bate.

On the 13th July, 1949, the second report of this Committee was considered by a Conference of Commonwealth and State Ministers held at Canberra. This Conference approved of the recommendation of the Committee that, in the national interest, after diversion of 235,000 acre feet per year, from the Snowy River to the Tumut River, and 330,000 acre feet from the Tooma River to the Tumut River, the balance of the Snowy River flow at Jindabyne be diverted to the River Murray. A provision was made that no Tooma water would be diverted until works made it possible to replace the amount so diverted by water from the Snowy River. The remainder of water diverted to the Murray from the Snowy would be shared by New South Wales and Victoria on the basis of an average of 300,000 acre feet annually to New South Wales and of 100,000 acre feet annually to Victoria.

It was also agreed at this Conference that additional storage capacity should be provided on the Upper Murray of at least 1,500,000 acre feet so as to re-regulate diverted flows from the Snowy and at the same time provide for the maximum practicable regulation of the waters of the Upper Murray and its tributaries above Hume Reservoir. Such an increase in storage would result in an increase of approximately 540,000 acre feet in the regulated flow of the Upper Murray in addition to the water brought from the Snowy River.

The decision relative to electric power which will be developed under the scheme was that, subsequent to the deduction of Commonwealth requirements for defence and for the Australian Capital Territory, the balance should be shared in the proportions of two-thirds to New South Wales and one-third to Victoria.

As a safeguard to irrigation interests, it was agreed that all conservation and diversion works would be carried out in their entirety and that the works necessary for the inland diversion of Snowy waters would be included in the early stages of the construction of the project.

The Snowy Mountains Scheme provides for substantial storages on the upper reaches of the Snowy, Tumut, Murray, and Murrumbidgee Rivers which would allow a volume of 2,340,000 acre feet of additional water to be made available for irrigation of which 965,000 acre feet would come from the Snowy the remainder from the further regulation of the other rivers. Of the total, some 1,400,000 acre feet will go to the Murrumbidgee Valley and 940,000 acre feet to the Murray Valley, Victoria receiving a total of 370,000 acre feet being 100,000 acre feet from the Snowy and some 270,000 acre feet as its half share from increased regulation of the waters of the Upper Murray.

The Commonwealth Government passed special legislation, which as assented to on 7th July, 1949, for the setting up of the Snowy Mountains Hydro-Electric Authority to carry out the works, and operations were started at an official ceremony held at Adaminaby on Monday, 17th October, 1949.

Steps have since been taken by the Commonwealth Government to set up a Standing Committee of technical officers to advise on matters relating to the integration of the Snowy Mountains Scheme with electricity and irrigation works of the Commonwealth and States. Representatives of Victoria on this Committee are the Chairman of the State Rivers and Water Supply Commission, Mr. L. R. East, and the Assistant to the General Manager of the State Electricity Commission, Mr. W. H. Connelly.

#### SLUDGE ABATEMENT BOARD.

The Sludge Abatement Board continued its operations during the year. This Board was set up in 1905 in accordance with the provisions of the *Mines Act* 1904 to regulate dredging, sluicing and other mining operations which might affect watercourses and reservoirs or lands used for agricultural grazing or residential purposes by the discharge of water sludge or mining debris.

The Board has exercised very effective control over mining operations, and its work has enabled large quantities of gold and minerals to be recovered without detriment to streams or marginal lands. For many years it has been the practice for this Commission to have a representative on the Board. At present he is Mr. H. G. Strom, Divisional Engineer for Rivers and Streams.

#### REGIONAL PLANNING.

Mr. H. W. McCay, Deputy Chairman, is a member of the Central Planning Authority which meets regularly and directs and co-ordinates the work of Regional Committees.

Information concerning the water resources and utilization of various regions in Victoria has been supplied to this Authority for inclusion in the Preliminary Reports—Resources Survey—of Regional Committees.

#### ADMINISTRATION.

##### DEATHS AND RETIREMENTS.

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

F. Wilde, Assistant Surveyor ; H. W. Clark, Inspector ; and H. Samson, Water Bailiff ; and C. A. Greenwood, who had retired.

The Commission wishes to express its appreciation of the loyal and valuable services rendered by the following officers, who retired during the year on account of ill-health or on attaining the statutory retiring age :—

Mr. H. L. Boorman, Estates Officer ; Inspectors J. T. Beasley, T. G. Davey ; Head Water Bailiffs H. E. Thomson and A. Wall ; Senior Water Bailiff P. J. O'Leary ; Reservoir Keepers A. S. Mawson and C. W. Williams ; Water Bailiffs H. Burnell and H. C. Hubble ; Assistants J. G. Chigwidden and N. V. McLeod ; and Miss D. Dickson.

##### PROMOTIONS.

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

Messrs. V. G. Swanson, B.C.E., A.M.I.E.Aust., Assoc.M.Am.Soc., C.E., Assistant Chief Engineer, Eildon Dam, Class "A1" ; M. G. Speedie, M.C.E., M.I.E.Aust., Assoc.M.Am.Soc.C.E., Senior Designing Engineer, Eildon Dam, Class "A1" ; K. D. Green, B.C.E., A.M.Inst.C.E., Assoc.M.Am.Soc.C.E., A.M.I.E. (Aust.), Senior Designing Engineer, Grade I., Classes "A" and "A1" ; T. K. Anderson, B.C.E., Executive Engineer, Grade I., Classes "A" and "A1" ; J. W. Moore, A.M.I.E. (Aust.), Executive Engineer, Grade I., Classes "A" and "A1", Murray Valley Channels ; S. W. Rogerson, A.M.I.E. (Aust.), Executive Engineer, Grade I., Classes "A" and "A1" ; P. E. Olsen, B.E., Executive Engineer, Grade II., Class "A" ; H. W. Lea, A.C.S.E. (N.Z.), A.M.I.E. (Aust.), Executive Engineer, Grade III., Class "A" ; J. L. Maver, B.C.E., Executive Engineer, Grade III., Class "A" ; and L. A. King, A.I.C.A., Chief Accountant, Class "A".

## RESIGNATIONS.

During the year, 132 officers and employees resigned from the Commission's service, of whom 16 were engineers and surveyors, 24 were draughtsmen or draughtswomen, 22 were clerks, 33 were typistes, 8 were bailiffs, and 29 other officers and employees. Included in the resignations were Messrs. A. F. Ronalds, M.C.E., A.M.I.E. (Aust.), Senior Research Engineer; F. R. Lucas, A.M.I.E. (Aust.), Executive Engineer; J. Park, A.M.I.E. (Aust.), Hydrographic Engineer; J. R. Crowther, L.S., Surveyor; J. B. Clarke, A.F.I.A., Accountant.

## STAFF.

For the purposes of comparison a statement showing the number of officers on the Commission's staff in the years 1926, 1939, and 1950 is set out.

	1926.			1939.			1950.		
	Permanent.	Temporary.	Total.	Permanent.	Temporary.	Total.	Permanent.	Temporary.	Total.
Professional Officers ..	148	10	158	126	50	176	278	94	372
Clerical Officers ..	113	8	121	99	58	157	158	81	239
General .. ..	240	51	291	136	211	347	420	220	640
Totals ..	501	69	570	361	319	680	856	395	1,251
Percentage Employees on Temporary basis ..	12 per cent.			47 per cent.			32 per cent.		

## IRRIGATION, PRODUCTION, AND DEVELOPMENT, SEASON 1949-50.

Abnormal weather had a big influence on this season. August rainfall was considerably below average, and the irrigation season opened on 1st September. Heavy rains fell during October and November, reaching record monthly totals for some districts in November, December, and January were fairly dry, but extraordinary rains in the latter part of February and in March greatly restricted the demands for irrigation water and caused extensive flooding in northern districts and also in Gippsland. Peak rainfalls of up to twelve inches in a few days were experienced in the Goulburn Valley and many rainfall records were broken, e.g., at Murchison, Rushworth, and Echuca.

These conditions resulted in the lowest total delivery of irrigation water for ten years, namely, 534,185 acre feet. When the season terminated on 15th May, 1950, some 659,079 acres had been irrigated throughout the State. This total is nearly 64,000 acres less than the record attained in 1948-49, again reflecting the unusual weather conditions of 1949-50.

## PRODUCTION.

The past season was a good one for pasture and lucerne under irrigation, so that satisfactory returns from the livestock industries may be expected.

Fruit production was affected by several adverse factors. Frosts in August and September damaged apricots, peaches, and almonds in several northern districts and some citrus was also affected. Although there was reason to expect an unusually heavy crop of dried fruits, the early forecasts were not realized. Black spot of the vine appeared early, downy mildew followed, and there were damaging rains at the time of the currant harvest and again for the sultana harvest. It was also a difficult season for tomatoes, increased acreages of which had been planted. In spite of frosts at blossoming, there was a record crop of apricots in the Goulburn Valley and the yield of pears was normal there. A rather light setting of canning peaches in the Goulburn Valley suffered severely from brown rot and splitting due to heavy rain in February and March.

Citrus production over the period under review was rather smaller than normal but satisfactory prices were realized for both navels and Valencias.

Because of the length of time necessary for the collection of detailed statistics, it is not possible at this time to give an accurate statement on the value of production from irrigation areas for 1949-50. Production figures for 1948-49 have now been compiled, however, from figures obtained from the Government Statist and other sources. These are summarized below, and a graph will be found in the Appendix, showing how this production compares with those at intervals since 1906.



The 1948-49 figure of £17,900,000 is made up as follows:—

	£	£
Livestock—		
Dairying .. .. .	4,600,000	
Beef .. .. .	550,000	
Pigmeats .. .. .	700,000	
Lamb, mutton, and wool .. .. .	3,400,000	
Poultry and eggs .. .. .	1,100,000	
		10,350,000
Horticulture—		
Dried vine fruits .. .. .	2,300,000	
Table and wine grapes .. .. .	120,000	
Canning fruits .. .. .	800,000	
Fresh and jam fruits .. .. .	650,000	
Citrus .. .. .	530,000	
		4,400,000
Vegetables, including tomatoes .. .. .	1,650,000	
Other Primary Products—Cereals, seeds, hay, &c. .. .. .	1,500,000	
		17,900,000

The value of production from irrigated areas in 1948-49 increased by nearly £1,000,000, as compared with the previous year and by £6,500,000 as compared with 1944-45.

#### COMPETITIONS.

The Tenth Annual Competition for the Hanslow Cup was conducted, as in previous years, by this Commission in conjunction with the Soil Conservation Authority. This competition was originated by Mr. Harold Hanslow in 1940, when he was a member of this Commission, with the idea of stimulating efforts to control soil drift in the Mallee.

There were 39 entries for this year's competition distributed through the Shires of Swan Hill, Wycheproof-Kerang, Karkarooc-Dimboola, Walpeup, and Mildura. The winner was Mr. W. H. Kruss of Torrita.

In conjunction with the local Agricultural Society, competitions for the best "Areas of Lucerne, of Permanent Pasture, and of Subterranean Clover, and Wimmera Rye Grass Pasture" were conducted in the Murray Valley Irrigation District. Reports on these competitions have been published in the Journal of the Department of Agriculture.

It was noted with pleasure that two irrigation farmers, Mr. V. R. Nielson of Tatura, and Mr. L. Senini of Sale were the winner and runner up of the State Championship in the Dairy Farm Management Competition. The zone championship was also won by the Maffra-Sale Irrigation Area.

#### SOIL SURVEYS AND INVESTIGATIONS.

In conjunction with the Department of Agriculture, soil surveys were continued in the Boort and Robinvale Districts and a soil survey was completed of an area in the vicinity of Stewarton, near Benalla.

During the year, the field work for the soil survey of the Murray Valley Irrigation District was completed. This work has been carried out in association with the C.S.I.R.O. and the Department of Agriculture.

Investigations have been continued of all lands likely to be commanded as the result of the provision of new storages in the Goulburn and Loddon Systems.

#### RESEARCH AND INVESTIGATION IN IRRIGATED AGRICULTURE.

In the Nyah-Woorinen, Tyntynder and Cohuna Districts, investigations into problems of irrigated agriculture have been continued by joint committees, comprising representatives of the Commission, the Department of Agriculture, the C.S.I.R.O., and local irrigators.

At Mildura, the Commission joined with the Commonwealth Bureau of Agricultural Economics in an investigation into the economics of the dried vine fruits industry.

The number of State Schools in irrigation districts which have taken advantage of the Commission's offer of free water for experimental purposes increased during this year to 48.

## DISTRICT ADVISORY BOARDS.

The activities of these Boards continue to provide a valuable medium for co-operation between the irrigators and the Commission on questions of local water supply and drainage. During the year, the Boards functioned successfully in all irrigation districts and in the Cardinia and Carrum drainage districts.

## IRRIGATION PRODUCTION ADVISORY COMMITTEE.

A meeting of the above Committee was held in Melbourne on 18th January, 1950. The matters discussed included those of fodder conservation, viticultural allocations under War Service Land Settlement, home maintenance areas under irrigation, Murray Valley development, and the outlooks for citrus, vine fruits, wine, rice, and dehydration of tree fruits.

This Committee comprises representatives of the Commonwealth and all mainland States. Victoria is represented by the Director of Agriculture, Mr. H. A. Mullett, and the Chairman of the State Rivers and Water Supply Commission, Mr. L. R. East. Mr. Commissioner Aird represented this Commission at the 1950 meeting, the ninth held during the existence of this Committee.

## NEW DISTRICTS.

## ALTERATIONS AND EXCISIONS.

Following the passage of the *Water Act* 1949, fifteen Drainage Districts covering irrigated lands were abolished in order to simplify administration and the works taken over by the appropriate Irrigation Districts.

To facilitate supervision of operations, the Tyrrell West Waterworks District was subdivided and Tyrrell West and Ouyen Waterworks Districts (administered respectively from Hopetoun and Ouyen) were constituted. In addition an area of 7,300 acres was excised from Tyrrell Waterworks District and added to Tyrrell West Waterworks District.

For the same reason adjustments were also made to the boundaries of the Birchip, Wycheproof, Upper Wimmera United, and Sea Lake Waterworks Districts.

Red Cliffs and Merbein Irrigation Districts which receive power from the one station at Red Cliffs were united to form one district known as the Red Cliffs-Merbein Irrigation and Water Supply District.

The Normanville Waterworks District was extended to include an area of 40,400 acres, known as the Gredgwin high lift area, and also an area of 640 acres served by the Commission's works.

The Wimmera United, Long Lake, Wychitella, and West Loddon Waterworks Districts were extended.

Allansford and Bacchus Marsh Urban Districts were extended to include lands served by extensions of the respective reticulation systems.



## PART II.—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 15,359,700 acres.

In August, water was made available from surplus flows which were then occurring in the Goulburn and Loddon Rivers. The volume of water delivered to irrigators from this surplus flow was 8,358 acre feet and was supplied to irrigators over and above their allotments of Water Rights and Sales Quotas.

At the commencement of the official irrigation season on 1st September, 1949, the total volume of water in the Commission's main storages, including Victoria's half share of Hume Reservoir and Yarrawonga Weir was 1,721,340 acre feet against the total capacity of 1,974,250 acre feet.

During the season under review all demands for supplies of water to the land were met from the main Goulburn and Torrumbarry Systems. The actual quantity of water delivered to lands in the Districts of the Goulburn System was 253,600 acre feet, and in the Torrumbarry System, 144,914 acre feet and were the lowest deliveries recorded in both systems over the last ten years. A total of 503,844 acre feet of water, including 54,930 acre feet by pumping for Red Cliffs, Merbein, Robinvale, and Nyah Districts were delivered from Commission's channels to landholders in irrigation districts. The total delivery was also the lowest recorded over the last ten years, the reason being the extraordinarily heavy rainfall which occurred over the State in late Spring and also heavy flood conditions which prevailed in early Autumn. In addition, a volume of 30,341 acre feet was supplied to lands outside the boundaries of Commission's districts, making a total delivery for irrigation of 534,185 acre feet.

Over the period under review the natural flow of the Goulburn River at Murchison was only about 1 per cent. above the average, although two extensive floods were recorded, one in November, 1949, and one in March, 1950.

The volume of water released from Waranga Reservoir amounted to 503,976 acre feet. Of this quantity 184,450 acre feet was delivered to irrigators, and 7,772 acre feet passed on at Loddon Weir to the Wimmera-Mallee Waterworks Districts indicating that about 38·20 per cent. of the water released was delivered.

Water was also released from the Goulburn Weir and Goulburn-Waranga Channel for the eastern portion of the Goulburn System, amounting to 177,091 acre feet; of this quantity 69,150 acre feet or 39·10 per cent. was delivered to irrigators.

Thus, of the total volume of water, 681,067 acre feet delivered from the headworks of the Goulburn System, the volume of water delivered to the land was 253,600 acre feet, and with the volume of 7,772 acre feet passed to Wimmera-Mallee, equals a delivery efficiency of 38·4 per cent. from headworks to the irrigator.

Returns of water delivered to constituted Irrigation and Waterworks Districts for irrigation and other purposes during 1949-50 for year under review, are included in the appendices to this report.

The Commission's main water storages, with a total capacity of 1,974,250 acre feet contained 1,240,610 acre feet of water on 1st July, 1949. Because of heavy rains the volume remaining in all storages at the termination of the irrigation season on 15th May, 1950, amounted to 1,487,800 acre feet which increased to 1,583,715 acre feet by 30th June, 1950.

### PRIVATE WATER USERS.

#### DIVERSION OF WATER.

The control of the use of the water in rivers, creeks, streams, and watercourses, lakes, lagoons, and marshes, was strictly exercised by the Commission.

Licences and Permits in force at 30th June, 1950, comprised 366 Diversion Licences for periods up to fifteen years authorising the irrigation of 21,948 acres, and 2,818 annual and special permits for the irrigation of 39,241 acres, making a total of 3,184 licences and

permits issued under Section 188 of the Water Acts, compared with 3,084 for the previous year. Details of the types of crops irrigated under licences and permits in operation during the year are set out in the following table:—

*Season 1949–1950.*

	Domestic and Stock.	Industrial.	Vineyard.		Orchards.	Market Garden.	Tobacco.	Miscellaneous.	Totals.
			Dried Fruit.	Table and Spirit.					
Licences—									
Number in force .. ..	..	4							366
Area authorized to be irrigated (acres) .. ..	..	..	540	1,317	1,750	285	17	18,039	21,948
Permits—									
Number in force .. ..	1,115	135	20	6	105	359	37	1,041	2,818
Area authorized to be irrigated (acres) .. ..	..	..	741	380	2,156	2,347	432	33,185	39,241
Total area authorized to be irrigated (acres) .. ..	..	..	1,281	1,697	3,906	2,632	449	51,224	61,189

Two hundred and twenty-five additional applications were lodged during the year under review for diversion licences for irrigation purposes, making a total of 715 received to 30th June, 1950.

Of these 225 applications received, 134 are in respect of diversion of water from the Loddon River between new Cairn Curran Reservoir and Wimmera-Mallee Channel for which a volume of 10,000 acre feet of water has been allotted; also twenty in respect of Little River upon which a weir is in course of construction.

#### ADVISORY COMMITTEES.

During the year under review, two additional Advisory Committees were constituted, one for the Tullaroop Creek and the other for Little River, making a total of eighteen Committees with a personnel of 128. These Committees, some of which have been operating since 1943, again proved of valuable assistance to the Commission in having the best use made of the limited natural flows of the streams concerned.

In connection with the eighteen Advisory Committees operating during the 1949–50 season, public meetings were convened by the Local Councils, thus giving interested water users an opportunity of voicing their opinions for the continuance or otherwise of these Advisory Committees. In all cases it was agreed that the continuation of the Committees was in the best interests of the landholders, and in all instances the retiring personnel of the Committees was returned for the 1950–51 season. The total area authorized to be watered from streams supervised by Committees amounted to 8,580 acres of which 717 acres were supplied under Special Permits during a stated limited period from freshet flows.

#### GOULBURN DIVISION.

The Goulburn Division embraces an area of about 1,000,000 acres, nearly three-quarters of which form the eastern part of the Goulburn Irrigation System supplied with water from the Goulburn River and storages, and the remainder comprising the Murray Valley Irrigation District draws its supplies from the Murray River at Yarrawonga Weir.

The districts forming the Division are controlled by District Engineers and District Officers stationed in centres located at Shepparton, Tatura, Tongala, and Rochester for that portion of the Goulburn System within the Division, and at Cobram for the Murray Valley Irrigation District.

The quantity of water delivered for irrigation in the several districts during the 1949–50 season was the lowest for some years. As a result of the unseasonable rains the demand for irrigation supplies was intermittent until the beginning of December. A steady summer demand which did not reach peak proportions continued till the middle of March when torrential rains ranging from 6 inches to 12 inches resulting in widespread flooding of farms and orchards, caused a cessation of irrigation and, except for isolated small deliveries at the end of April, channels remained closed for the remainder of the season.

The drainage systems of the several districts although severely taxed in the early stages by the deluge of stormwater resulting from the torrential rains ultimately cleared the land of floodwater. In Rodney district where the drainage system is under construction, the areas already served were quickly drained, but the southern parts of the district suffered extensive flooding through lack of drainage works. At Shepparton where in some places up to 750 points fell over a period of three days, the drainage system was severely tested by the enormous inflow but the value of the system was exemplified by the rapidity of discharge of stormwater from orchards and farms, and within a few days the run-off was confined within the drains.

In Tongala-Stanhope District flooding was severe and prolonged. The natural drainage lines from the Waranga Hills and the western portion of the Rodney District pass through Tongala District; the quantity of water carried through this district by the Commission's drainage channel system and the natural flood depressions was, consequently, greater than in the other districts. It is particularly noticeable, however, that the areas served by drainage channels cleared of floodwater very much more quickly than those lands which were dependent on natural flood lines for disposal of the enormous volumes of surface run-off waters.

Although the shortage of material and the scarcity of skilled labour eased slightly during the year they continued to be a major problem in maintaining district works in first-class condition, and replacing worn out obsolete structures together with structural work required for irrigation and drainage extensions.

A heavy flood of comparatively short duration which occurred in the Goulburn River at Shepparton in March, 1950, necessitated the passing of portion of the floodwaters through the Loch Garry Regulator. The drop-bars were operated in accordance with the requirements for regulating floodwaters at this structure.

The Taripta Channel, an old Trust work in the Rodney District running through low ground on the roadside north of allotments 52, 53, and 54, parish of Taripta, was deviated to higher and better holding ground at the south, and a new offtake structure provided on the Waranga-Kyabram Main Channel. The new channel will give a greatly improved service to irrigators in this locality.

Old timber structures in this district are urgently in need of replacement as most of them were constructed many years ago when the System was operated by the Rodney Irrigation Trust. These structures are being progressively renewed as their maintenance becomes uneconomic. The policy of installing Dethridge meters for measuring water delivered to irrigable lands was continued.

The Rodney District drainage works were further extended, the Rodney Main Drain by two miles to "Mosquito" depression some three miles east of Merrigum, and the Undera Main Drain by one mile to low lands at the north-west corner of parish of Mooropna. Most of the structural work, however, has been held up because of shortages of steel and cement.

The prolific growth of weeds in many drains of the Tongala system this season has been very troublesome; this has been brought about by seasonal conditions and the extreme scarcity of labour and machines to cope with the general infestation. Experiments are being conducted with weed-killing compounds and aromatic solvent sprays in an endeavour to clear the system of weeds.

In order to expedite the remodelling of irrigation channels and drains in Rochester district and to overtake arrears of maintenance, the number of dragline excavators detailed for these works was increased to five during the latter part of the year, and this will be further increased as machines become available. This work proceeded steadily and during the year upwards of 25 miles of channels and drains were reconditioned and enlarged including the reconstruction of six miles of Campaspe Western and Restdown Channels.

The Murray Valley Irrigation District comprises an area of 269,334 acres of which 165,173 acres have been fully reticulated and supplied with water, the total length of channels in use is approximately 357 miles. 29,636 acres of land in this district have now been subdivided and allotted for the settlement of ex-servicemen. Construction of the distributary channels to serve the remaining 30,000 acres to be developed for settlement of ex-servicemen is proceeding.

Special attention has again been given to control of leakage from isolated sections on the Nos. 1, 2, and 5 Main Channels and during the off-season 64½ chains on the banks of these Channels were trenched by back-ditching excavator, the trench back-filled with

clay slurry, and the banks finally restored to original profile by a "dozer-grader". This method of treatment has proved most effective, and further work of this nature will be carried out when required.

During the year 1,916 acres of land were grid-surveyed by the Commission for district irrigators who were supplied with plans for grading, check-banking and channelling their land for the sowing of permanent crops. The Commission carries out the work for irrigators at the nominal charge of 2s. per acre plus travelling costs. As a result of this service, development of land for irrigation throughout the district is proceeding on very sound lines.

#### LODDON DIVISION.

The Loddon Division situated astride the Loddon River extends from Bridgewater in the south to the Murray River which it fronts from Torrumbarry to Tyntynder. It comprises an area of about a million and a quarter acres and includes twelve irrigation and water supply districts, five waterworks districts and nine urban districts and divisions.

The southern portion of the division receives its supply from the Goulburn gravitation system with supplementary supply from the Loddon River regulated at Laanecoorie and Loddon Weirs. The northern portion comprising the Torrumbarry System is supplied by gravitation direct from the Murray River, the headworks being the Weir and Lock at Torrumbarry some twenty miles by road downstream from Echuca.

The unseasonable weather conditions experienced during the year resulted in a fluctuating demand for irrigation water throughout the season and deliveries in all district centres were below the general average.

Good mid-winter rains gave promise of a normal demand when the irrigation season opened but, following dry conditions early in August, special sales water was made available during the two weeks prior to the 1st September and the demand for water was very heavy at the commencement of the irrigation season when all channels were running to capacity. Subsequent to further rains in October, irrigation practically ceased early in November but following the comparatively dry months of December and January watering returned to normal with a heavy demand setting in early in March. However, with heavy rains about the middle of March, totalling over 5 inches in certain localities, the demand for water eased considerably although on account of dry conditions prevailing throughout April water was made available in certain centres, under special sales conditions, until the 10th May. The cessation of watering was followed by further heavy rains assuring excellent conditions for the growth of water pastures.

The heavy rains falling in March when watering in all areas was proceeding at a maximum rate placed a severe test on the drainage systems and resulted in many requests for the provision of drainage facilities from those areas not now served by the various drainage systems. These requests are now being investigated.

Rainfall in the Swan Hill district reached a total of 1,629 points for the year, this was about 4 inches greater than the average. Of this total approximately 6 inches fell during the months of February and March with the result that the watering season was considerably broken and water deliveries for the season were reduced to a total of 26,484 acre feet. Similar conditions prevailed in the Fish Point district where the total water delivery was limited to 1,329 acre feet under water right.

In the Tresco district the rainfall totalled 1,735 points for the year. There were five effective watering periods during the season but watering was suspended on two other occasions on account of heavy rainfall. Throughout the season a total of 3,415 acre feet of water was delivered by the pump unit.

Under water sales conditions a total of 3,706 acre feet was delivered to users on Pentall Island.

The evaporation as measured at Lake Boga was 4 feet 11½ inches for the year.

The installation of meter wheels in the Tresco district was continued and to date a total of 30 wheels are now in operation.

A series of test wells have been established in the vicinity of the southern drainage lake at Woorinen to determine whether the water level in the lake bears any relationship to the water table of the surrounding lands. Information so far available has indicated that no direct influence exists.

With a view to determining the possibility of obtaining from underground sources domestic and stock water supply requirements during the non-irrigation season, a hand boring plant is operating in the Tyntynder section of the Swan Hill district.

In the Woorinen and Tresco areas the unfavourable rains in late summer caused considerable damage to the grape crop. The dried fruit crops handled by the Woorinen Packing Shed totalled 1,720 tons at Woorinen and 339 tons at Tresco.

The Swan Hill Butter Factory processed 800 tons of butter during the twelve months period which was an increase of 35 tons above the previous year's output.

The heavy rains during March caused heavy flooding in the vicinity of the Kow Swamp Storage when the intake into the swamp from the Patho Plains area reached a maximum of 2,500 c.f.s. The storage was used effectively to balance the peak of the flood flow and in conjunction with some diversion into the Gunbower Creek and the Macorna Channel made it possible to reduce considerably the discharge into Box Creek with the result that despite intake from the Bullock and other creeks the Pyramid Creek discharge was limited to a maximum of 1,000 c.f.s.

Weed growth was again serious in channels and drains but normal carrying capacities were maintained. Siltation and weed growth in the Pyramid Creek over the past year has gradually depreciated its carrying capacity and made it increasingly difficult to contain the required discharge within safe limits. Works to define the required waterway through the worst sections are now in progress. For this purpose a dragline excavator has been mounted on pontoons.

Removal of silt from the Macorna Channel has been continued and a further three miles was completed by dragline excavators. Altogether 32 miles of channels and drains were cleaned out or reconditioned by dragline excavators during the year.

The two heavy rainfall periods which occurred during the season caused considerable flooding in the Cohuna and adjacent areas not served by the drainage system. Numerous irrigators in these areas were able to pump surplus water into adjacent irrigation channels but the lands of others not so happily situated suffered due to the lack of any means for the speedy removal of the floodwaters.

The extension of the drainage works in this district was continued during the year but progress was limited on account of the shortage of labour, pipes, and other materials.

Surveys are now in course with a view to linking the undrained areas to the drainage system. Reticulation improvements were effected in the Cohuna and Leitchville Urban Divisions.

To provide accommodation for water bailiffs three prefabricated houses were erected in suitable localities in the centre during the year.

Nine entries were received for the Annual Pasture Competition in the Tragowel Plains District. Mr. A. H. Bear was the winner and will receive 8 acre feet of water donated by the Commission and is entitled to hold the "Bartels" shield for the ensuing year. In the Dingee and Calivil districts, Mr. C. F. Thomas was the winner of the Permanent Pasture Competition.

Seven miles of new drains were excavated in the Dingee district and 35 miles of channels cleaned out and reconditioned by dragline machines during the year. Good progress has been made with the reconstruction of the Kow Swamp inlet regulator.

Three prefabricated houses were erected at Pyramid during the year to accommodate the district staff.

The supply of water for domestic and stock purposes in the West Loddon and Normanville districts was completed by December, 1949. The number of tanks filled in the West Loddon district was 218 while those filled in the Normanville district, inclusive of the Gredgwin High Lift area, was 428.

The Waranga Western channel was cleaned out over  $8\frac{1}{2}$  miles of its length and a further 9 miles of sub-main and lateral channels were reconditioned by dragline excavators during the year.

An additional three prefabricated houses have been erected to accommodate water bailiffs in various localities throughout the Boort District.

#### GIPPSLAND AND SOUTHERN DIVISION.

The Gippsland and Southern Division includes Bacchus Marsh, Werribee, Maffra-Sale, and Central Gippsland Irrigation Districts. The areas of Bacchus Marsh and Werribee are 6,688 acres and 10,137 acres, respectively. Maffra-Sale has an area of 53,053 acres, but works now in hand for the extension of the district will increase the area of that district to over 81,000 acres. Central Gippsland Irrigation District has an area of 54,300 acres including the Nambrok-Denison Soldier Settlement.



As in most parts of Victoria the outstanding events of the period under review were the exceptionally heavy spring and autumn rains. In Bacchus Marsh, Werribee, and Maffra-Sale Districts, rainfall was some 50, 43, and 33 per cent. respectively above average, with the result that draft on storage reservoirs for irrigation supplies was below normal. Nevertheless, substantial proportions of the allotted water rights were delivered and profitably utilized during the dry midsummer, while the carry-over of stored water and subsequent river flows resulted in the Division's reservoirs, Pyke's Creek, Melton, and Glenmaggie, all commencing the 1950-51 season completely filled.

In the Bacchus Marsh District, the total quantity of water delivered was equal to 98.7 per cent. allotted rights, and deliveries were also made to landholders outside the district. District efficiency of 86.6 per cent. (i.e., of total volume received at District headworks) is an indication of satisfactory condition of the concrete channel distributary system, and of the control exercised by the distribution personnel.

Arrangements were made to increase pondage of the Diversion Weir in the Werribee River by raising the wall and installing flashboards. Work has been delayed by river flow but will be resumed when conditions permit.

Manufacture of Dethridge meter wheels for use in the Irrigation Districts of the State continued, 192 large and 78 small wheels being despatched for the year.

Urban supplies were maintained and extended and a report obtained on the proposal to instal a filtration plant. Staff accommodation was improved by the provision of three prefabricated houses.

Water deliveries in Werribee Irrigation District were equivalent to 84 per cent. of allotted water rights and included three out-of-season runs to meet domestic and stock needs and the requirements of market gardeners.

Prevention of seepage which might affect valuable market gardens and pasture lands, and reduction of water losses was effected by adequate maintenance of concrete linings of supply channels and the replacement of any defective lengths of concrete.

Run-off from the heavy rains of November and March taxed the capacity of the drainage system, which however, cleared all surplus water within 72 hours and prevented any damage from flooding. Experiments with new weedicides have been carried out and are still proceeding with a view to adding to the efficiency of the drainage channels by suppression of vegetable growth in the beds.

The District is in a prosperous condition and land changes hands at high figures, frequently from £200 to £300 per acre. Highest price paid for the year was £317 10s. per acre for an area of 28 acres.

In the Waterworks District, where water is supplied for dam-filling only, requirements were met with a single run of water. Harvesting the 1949 crop and cereal sowing for 1950 were adversely affected by rain.

In the Maffra-Sale District the rains already referred to, and which included 12 inches in 21 days of early autumn, kept the Macalister River flowing strongly throughout the year, with fairly severe flooding of the river flats on several occasions. Maximum discharge was for a period of 30 hours during which water remained at more than 6 feet above the crest of the spillway at Glenmaggie Reservoir, the highest gauge reading being 6 ft. 5 in. on 5th April, 1950.

Water deliveries amounted to 75 per cent. of water rights, with a short sustained peak demand in January.

Normal maintenance of supply and drainage channels was effected and was assisted by the provision of two additional drag-line excavators, bringing the total to four machines. Horse operated rakes were also used and on some lengths, hand cutting, to remove vegetation from drainage channels. Flood waters caused some scouring at structures of the Bundalaguah and Serpentine drains and steps were taken to prevent extension of the scours. The drainage system as a whole gave excellent service in a season when an absence would have led to heavy losses.

New channel construction was limited to further work on the Tinamba Loop of 100 cusecs capacity. Seventy-four chains of earthworks were completed with a drag-line, and 6 chains of concrete flume constructed together with 8 road and occupation crossings, 4 checks and supply crossings, floodway checks and a structure to carry Tinamba Northern No. 3 channel across the Loop. Remodelling of Tinamba and Riverslea channels, with necessary enlargement and duplication of structures is nearing completion.

Urban water supplies were maintained for Heyfield and in view of the great increase in population plans are being prepared for extensions to the reticulation and other changes including the source of supply.

The Stratford urban supply was cut off when two spans of the Prince's Highway bridge across the Avon River were carried away by floodwaters on 5th April. The bridge carries the 12-inch main supplying the town, and the service was restored by a new connecting link on the temporary span erected by the Country Roads Board.

Flood flow in the Avon caused several changes of river course and presented new erosion hazards. In some cases these may affect parts of the supply channel system and investigations into necessary safety measures are in hand.

Surveys and grading layout plans were made for several irrigators, and water supplied for experimental pasture plots at six schools in the area. Land acquired for soldier settlement has been surveyed and subdivided into nine holdings and arrangements made for the necessary supply and drainage channel construction.

Staff accommodation was improved by the erection of one new house and tenders have been called for quarters for two water bailiffs.

Planning for extensions of the irrigation district was further advanced and channel surveys are being continued. With a somewhat lower labour turn-over than in the previous twelve months and work nearing completion in the Tinamba-Riverslea area, prospects are somewhat brighter for works to serve additional lands outside the present district.

Works for the supply of the new Central Gippsland area of over 50,000 acres, nearly half of which is to form the Nambrok-Denison soldier settlement, are in hand. Details of the record of progress are given elsewhere in this Report.

#### WIMMERA-MALLEE DIVISION.

The Wimmera-Mallee Waterworks System supplies water for domestic and stock purposes to almost the whole of the region known as the Wimmera, and to large portions of the Mallee districts, serving in all some 11,000 square miles of land used for 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 readily whilst in the Mallee rainfall is insufficient to provide an adequate run-off.

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 extension and development have taken place; there are now 6,600 miles of main and tributary channels, whilst the total storage capacity supplying the Wimmera-Mallee channels is 206,480 acre feet.

In the last financial year seasonal conditions in the District were good both for farming operations, cover on the ground and running of water.

Dry conditions prevailed in the catchments so that storages did not fill, but sufficient water was in store and the watering of the Districts including the new district of Wychitella was carried out in good time.

#### *Walpeup West.*

When this area was made available for settlement some 35 years ago, over 100 public bores were sunk to supply water for settlers and travelling stock.

Most farms in the area now obtain their domestic and stock supplies from private bores on their own farms.

Owing to the increasing number of private bores it has been found that the number of public bores to be maintained can be considerably reduced, and this is now being done.

The Commission is at present carrying out the overhaul of all public bores still required in this area.

#### *Millewa.*

The Millewa district is supplied by pumping from the River Murray.

The annual run of water for domestic and stock supplies to farmers in this area was carried out during the year.

Re-subdivision of this area under the North-West Mallee Settlement Areas Act has now been carried out. The plan adopted has given settlers much larger areas and this has enabled the channel system to be re-organized on more economical lines.

#### *Coreena.*

The Coreena District was again supplied with water from the River Murray for domestic and stock purposes by means of the pumping plant at Robinvale.

### SAND-DRIFT.

Good rains during 1949 fell in the Wimmera and Mallee Areas promoting good natural cover.

The planting of 1,640 acres of rye corn by the Commission on channel banks and areas of land liable to drift, and the campaign to prevent such land being fallowed, has again reduced the amount of soil that had to be removed from the channels to less than in the previous year.

The cost of horse team work is still steadily increasing with higher wages for scoopmen and the very high prices prevailing for chaff.

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 1945-46 to 1949-50. Figures for earlier years since 1928-29 have been given in previous Reports.

					Financial Year.		Calendar Year.		
					Cost per Fortnight for Horse Teams.	Approximate Quantity of Sand Removed.	Amount.	Year.	Amount.
					£	cubic yards.	£		£
1945-46	..	..	..	..	42	12,297,000	322,827	1945	312,419
1946-47	..	..	..	..	43	6,954,000	187,017	1946	249,284
1947-48	..	..	..	..	46	2,440,000	70,179	1947	92,193
1948-49	..	..	..	..	64	1,540,000	61,629	1948	55,876
1949-50	..	..	..	..	68	1,187,000	52,437	1949	57,866

#### *Nyah.*

### IRRIGATION DISTRICTS.

During the year six regular irrigations were provided, and in addition two special irrigations were carried out, one for a special frost watering from 28th to 30th September, 1949, and the other a special domestic and stock watering from 15th to 17th March, 1950.

For the fourth successive year this district has suffered a severe set back so far as production is concerned. Again, heavy rain accompanied by very humid weather conditions during the harvest season caused severe loss of fruit.

Reports from the Packing Sheds show a total yield of 2,092 tons, compared with 1,333 tons in 1949, 2,357 tons in 1948, and 1,733 tons in 1947. A very high percentage of this tonnage was badly damaged by rain during harvest operations.

The highest yield in recent years was 3,352 tons in 1944.



Particulars of the six irrigations given during 1949-50 are :—

Irrigation Number.	Period.			Acre Feet Pumped.	Equivalent Average Depth per Watering.
					Inches.
1	31st August, 1949, to 20th September, 1949	..	..	1,896	8.1
2	9th November, 1949, to 25th November, 1949	..	..	1,449	6.1
3	30th November, 1949, to 19th December, 1949	..	..	1,659	6.9
4	29th December, 1949, to 18th January, 1950	..	..	1,943	8.1
*5	25th January, 1950, to 5th February, 1950	..	..	1,426	6.6
	9th February, 1950, to 13th February, 1950	..	..		
6	27th April, 1950, to 3rd May, 1950	..	..	456	7.7
	Total, Season 1949-50	..	..	8,829	7.2
	* Irrigation interrupted owing to rain				

Figures do not include special frost watering, 28th to 30th September, 1949 = 128 acre feet, and special domestic and stock irrigation 15th to 17th March, 1950 = 150 acre feet.

#### Red Cliffs-Merbein.

Irrigation commenced on 22nd August, 1949, in both Red Cliffs and Merbein.

In addition a special frost run was given at Red Cliffs from 21st to 23rd September, 1949.

A special pre-harvest run through was also given in Red Cliffs from 5th to 6th February, 1950, and in Merbein from 4th to 5th February, 1950.

Water was made available for six irrigations in both districts.

The production of dried fruits in these two districts amounted to 43,787 tons compared with 41,028 tons produced in 1948-49. A very high percentage of the tonnage was badly damaged by rain during harvest operations.

Particulars of the six irrigations given during 1949-50 are :—

#### RED CLIFFS.

Irrigation Number.	Period.			Acre Feet Pumped.	Equivalent Average Depth per Watering.
					Inches.
1	22nd August, 1949, to 23rd September, 1949	..	..	8,014.2	8.7
2	31st October, 1949, to 28th November, 1949	..	..	8,202.2	8.7
3	8th December, 1949, to 5th January, 1950	..	..	8,245.8	8.7
4	11th January, 1950, to 7th February, 1950	..	..	7,676.25	8.2
*5					
6	26th April, 1950, to 11th May, 1950	..	..	3,134	8.4
	Total, Season 1949-50	..	..	35,272.45	8.5
	* Irrigation abandoned owing to rain				

Figures do not include special frost run through 21st to 23rd September, 1949 = 58 acres = 29 acre feet. Special harvest run through 5th to 6th February, 1950 = 87½ acres = 43.75 acre feet.

#### MERBEIN.

Irrigation Number.	Period.			Acre Feet Pumped.	Equivalent Average Depth per Watering.
					Inches.
1	22nd August, 1949, to 25th September, 1949	..	..	5,897.85	9.1
2	7th November, 1949, to 30th November, 1949	..	..	5,930.1	9
3	12th December, 1949, to 3rd January, 1950	..	..	6,014	9.1
4	11th January, 1950, to 5th February, 1950	..	..	5,575	8.3
*5					
6	1st May, 1950, to 15th May, 1950	..	..	2,665.5	8.9
	Total, Season 1949-50	..	..	26,082.45	8.9
	* Irrigation abandoned owing to rain				

Figures do not include special harvest run through 4th to 5th February, 1950=1,121 acres=560.5 acre feet.

## DRAINAGE.

The Nyah Sub-Surface Drainage System was further advanced during the year when some 68 chains of drains were constructed, making a completed total of 18 miles 43½ chains.

The internal drainage of blocks by settlers is proceeding, and an improvement in the condition of the vines can be observed where drainage has been completed.

## ROBINVALE IRRIGATION DISTRICT.

Seventy-five blocks were planted to vines and citrus in the Robinvale Soldier Settlement up to September of 1949. The first 29 blocks were planted in 1947, and came into bearing for the first time this year, and up to three quarters of a ton per acre was of dried fruit harvested on a number of these areas.

The development of the intensive pipe system for irrigation has progressed satisfactorily, and a number of the blocks from the first allocation are now fully served in this way.

Houses and sheds have been erected by the Soldier Settlement Commission on a number of blocks and the settlers are in residence.

The allocation of an additional 15 blocks to be planted by July of this year brings the total areas now under viticulture to 100 blocks with an area of approximately 1,500 acres, planted to vine, and approximately 230 acres to citrus and other trees.

The reticulation of the area is well in hand, pipe lines, junctions, and outlet boxes having been completed for 100 blocks and meter wheels were installed on some 25 blocks of the first allocation.

## MAIN PUMPING STATIONS.

The Commission's Main Pumping Stations, situated on or near the River Murray, supply water for the Irrigation Districts of Red Cliffs, Merbein, Nyah, Tresco, and Robinvale ; and also the Waterworks Districts of Millewa, Yelta, Carwarp, and Coreena.

In addition there are several smaller stations for pumping water for domestic and stock supplies to lands above gravitational levels, and for town supplies in various parts of the State.

The operation of these pumping stations has been satisfactory throughout the year, there having been no breakdowns such as would interfere with the delivery of water.

During the year it was necessary, on account of the coal strike, to convert the boilers at the main Red Cliffs pumping station to burn oil fuel, and to arrange for temporary oil fuel storage. This work was carried out without interference to the irrigation programme, but the use of oil fuel naturally increased the operating costs for Red Cliffs and Merbein Irrigation Districts. The construction and replacement works in hand or planned during the year included the following :—

Tenders were called for complete new electric motor driven pumping plant for Red Cliffs, to be supplied with power from the Mildura Central generating station.

Contracts have been let for the supply of an additional 30 cusec electric motor driven unit for Merbein to improve operating efficiency and provide standby plant.

Construction of the main steam engine pumping station at Robinvale with an output of 60 cusecs and two diesel engine relift stations have been completed ; two further diesel engine relift stations are nearing completion.

New pumps have been installed at the Kewell East and Murtoa North domestic and stock pumping stations to improve operating efficiency.

Tenders have been called for complete new plant for installation at the Jung Dooen domestic and stock pumping station to achieve similar results.

Preliminary investigations have been carried out for electrification of the Tresco pumping stations.

### OFFICIAL MISSION TO BRITAIN.

Commissioner H. W. McCay, Deputy Chairman, visited Great Britain and the Continent in July and August of last year in connection with the Commission's extensive programme of water conservation and distribution works.

As indicated in another section of this report, Mr. McCay who was leader of an Official Mission purchased considerable mechanical equipment and replacement parts necessary for the expansion of the Commission's construction operations. The other members of the Mission were Mr. C. A. R. Evans, the Commission's Plant Engineer and Mr. L. B. Barwick, Engineering Consultant, who was recently Chief Mechanical Engineer for the Commission.

During his overseas visit, Mr. McCay also had important meetings in London with the Council of the Export Group of Construction Industries and discussions with interested members of the Group in regard to the Big Eildon Project.

The Mission also enquired into the availability of pre-cut houses for the Commission's Big Eildon Project.

### INTERNATIONAL WATER SUPPLY CONFERENCE, AMSTERDAM.

During his visit to Great Britain and the Continent as Leader of the Commission's purchasing mission, the Deputy Chairman, Commissioner H. W. McCay, attended the first annual conference of the International Water Supply Association at Amsterdam from the 17th to 24th September, 1949, at which were present between 300 and 400 delegates from 24 countries.

Mr. McCay took part in the discussions at the General Assembly of the Conference, a report of the proceedings of which is being published.

### INVESTIGATIONS AND DESIGNS BRANCH.

Heavy demands were made on the staff of this Branch in order to complete plans and specifications for the Big Eildon Dam, maintain the output of plans for works under construction and to carry on investigations and designs of proposals approved or contemplated. The loss of experienced officers from this Branch by resignation and transfer has been particularly heavy.

Although this loss was felt severely, the excellent response of the remaining staff in meeting extra demands, by a great deal of overtime work extending over many months, resulted in significant progress in the planning of the highest priority works. Work on many investigations is, however, in arrears or has been suspended altogether. The main activities were as follow :—

#### *Big Eildon Dam.*

#### GOULBURN SYSTEM.

Planning was advanced to the stage at which tenders could be invited for construction. This involved preparation of comprehensive exhibition documents, including 60 drawings, about 15,000 man-hours being worked by engineers and draftsmen on this special job. A joint investigation with officers of the State Electricity Commission regarding power generation at Eildon was brought to a successful conclusion.

#### *Goulburn Waranga No. 2 Main Channel.*

Plans and specifications were prepared for the second stage of the duplication of this vital link between the Goulburn River and Waranga Reservoir.

#### *Goulburn Irrigation District—General.*

A start was made with planning the distribution of additional water supplies which will be available when the enlarged Eildon Reservoir is in operation. Special attention was given to Deakin Irrigation District where the present channel system is altogether inadequate and unsatisfactory, and to the East Goulburn Main Channel.

#### RIVER MURRAY.

#### *Additional Storage—Upper Murray.*

Investigations were continued at the request of the River Murray Commission in connection with additional storage for the more adequate regulation of the natural river flow of the River Murray and of projected diversions from the Snowy River into the Upper Murray. Many sites were examined and exhaustive studies undertaken to explore all the reservoir possibilities of the Upper Murray region. Several pack-horse expeditions

were undertaken into the upper reaches of the river and its tributaries, and conferences were held with officers of the Snowy Mountains Authority and the Water Conservation and Irrigation Commission of New South Wales.

*Hume Reservoir Enlargement to 2,000,000 Acre Feet.*

Plans for earthworks required were prepared and approved by the River Murray Commission.

CENTRAL GIPPSLAND IRRIGATION DEVELOPMENT.

*Nambrook-Denison Soldier Settlement.*

Steady progress was made with the preparation of channel sections and plans of structures for this area, which is to comprise 200 separate irrigation blocks. The project will involve 160 miles of channels and flumes and several hundreds of reinforced concrete bridges, syphons, regulators, outlets, and other structures.

*Glenmaggie Reservoir Enlargement.*

Following completion of survey work, general plans and estimates were prepared and a start was made with the detailed drawings for this project.

*Maffra Weir.*

The preparation of detail drawings for this structure was advanced almost to completion.

*Main Eastern Channel.*

This will run from Maffra Weir and connect with the Sale and Airly irrigation channel systems. Progress was made with the investigation and preliminary designs and estimates were prepared.

*Thomson River Diversion.*

Investigations were put in hand to locate a weir site favourably situated for construction purposes. Surveys, however, have been delayed by more urgent work in the Soldier Settlement Area.

*Cairn Curran Dam.*

LODDON RIVER DEVELOPMENT.

Steady progress was made with the preparation of working drawings of outlet and control works.

*Tullaroop Creek Reservoir.*

Some investigations for this project were continued, but the preparation of detailed drawings was not attempted owing to shortage of staff.

*Loddon Irrigation Districts—General.*

Studies were completed of the permissible output from the Loddon River at Laanecoorie Reservoir following the coming into operation of the Cairn Curran Storage. These will form the basis for the allocation of additional water supplies from this stream.

GLENELG RIVER DEVELOPMENT.

*Rocklands Dam and Channel Works.*

Apart from minor details, working drawings were completed.

*Toolondo Reservoir Control Structure and Outlet Channel.*

Preparation of the working drawings was completed except for some small details.

TORRUMBARRY SYSTEM.

(Improvements).

*Marraboer Weir (River Murray).*

Considerable progress was made with this investigation during the year. Additional boring was put in hand to obtain more precise information and preliminary designs were prepared for discussion by a committee of engineers from Victoria and New South Wales.

The construction of this weir would open the way for further improvement to the Torrumbarry System as supplies for the intensively developed Swan Hill District could then be drawn from the new weir pool, thus avoiding the transfer of the requirements from Torrumbarry Weir through the System via Kow Swamp and Kerang.

*Proposed New Off-take Regulator, National Channel, and other Proposals.*

Boring was carried out at the site of the regulator but the design of this structure, together with the investigation of the System generally, could not be completed because of staff shortages and pressure of other work.

MURRAY VALLEY IRRIGATION DISTRICT.

*Irrigation Channel Works.*

Planning of the 460 miles of channels with 1,600 bridges and 2,600 other structures was completed last year and comparatively little extra work was required. Minor variations requested by the Soldier Settlement Commission were dealt with during the year.

*Drainage Works.*

General planning was completed, a scheme adopted, surveys put in hand, and appreciable progress made with the preparation of longitudinal sections and of drawings of structures.

ROBINVALE SETTLEMENT.

In consultation with officers of the Soldier Settlement Commission the subdivisional layout was extended to a total of 166 holdings and good progress made with the design of works.

MORNINGTON PENINSULA WATERWORKS SYSTEM.

*Tarago River Diversion.*

The investigation by diamond drilling of the line for a tunnel 2 miles long near the township of Jindivick was completed, and planning of the project advanced to the stage at which work could commence. Surveys were further advanced and design work for the diversion race was started. The population served by the existing headworks is rapidly expanding; additional water is urgently required and planning for this development is proceeding as rapidly as possible under present limitations in regard to staff.

BELLARINE SYSTEM OF WATERWORKS.

Although held up for some time by staffing problems, investigation of the possibilities of increasing the supply of water to Geelong and the Bellarine Peninsula towns was continued and progress made. The water resources of the Upper Barwon and its numerous tributaries are considerable, the catchments are afforested and are in the 40-inch–60-inch rainfall zone. A plan for development in successive stages is contemplated, ultimately providing water for urban requirements—mostly in Geelong—about five times greater than the present supply.

*Malmsbury Reservoir.*

COLIBAN SYSTEM.

Following on difficulties experienced in the operation of the existing outlet, which has been in service for many years, plans are being prepared for a new intake tower and conduit which will ensure that release of water from the reservoir can not be interrupted.

OUTLET AND CONTROL WORKS—GENERAL.

During the forthcoming year it is proposed to call tenders in Australia and Overseas for the Commission's requirements of large valves, crest gates, regulating gates, and sluices and various associated operating mechanisms and appurtenances. The preparation of plans and specifications was commenced and significant progress made. A total of 100 plans is involved.

OTHER ACTIVITIES.

Little further work was done during the year on the approved Eppalock Reservoir Enlargement. Preliminary planning was completed, but the preparation of working drawings was not attempted.

RIVER GAUGING.

As provided by Section 32 of the *Water Act* 1928, the gauging and the 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.

The total flow of the major streams for the year 1949–50 was 23 per cent. above average. The North-East, Central, and Wimmera sectors ranging from average to 42 per cent. below. The East Gippsland sector was above average with the Thomson River at Cowwarr, Macalister River at Glenmaggie Weir and the Snowy River at Jarrahmond showing 33, 93, and 141 per cent. respectively above normal. The Snowy River had four floods during the year ranging in magnitude from 90,000 to 39,000 cusecs.

The following table shows the discharge of some of the principal streams during the year 1949-50, also the average annual discharge and the percentage departure from the average.

Stream.	Discharge for Year 1949-50.	Average Annual Discharge Since Year Indicated.	Percentage Departure from the Average for the Year 1949-50.
	Acre Feet.	Acre Feet.	%
River Murray at Jingellic .. .. .	1,770,000	1,840,000 (1891)	— 4
Mitta River at Tallandoon .. .. .	1,065,000	1,093,000 (1887)	— 3
Ovens River at Wangaratta .. .. .	970,000	1,145,000 (1881)	— 15
Broken River at Goorambat .. .. .	138,300	197,500 (1887)	— 30
Goulburn River at Eildon Reservoir .. .. .	1,166,000	1,365,000 (1901)	— 15
Goulburn River at Murchison .. .. .	2,277,000	2,250,000 (1882)	+ 1
Coliban River at Malsbury Reservoir .. .. .	66,590	51,470 (1890)	+ 29
Loddon River at Laanecoorie .. .. .	136,400	163,700 (1891)	— 17
Little Wimmera River at Lake Lonsdale Reservoir .. .. .	40,800	70,400 (1904)	— 42
Thomson River at Cowwarr .. .. .	433,900	325,600 (1901)	+ 33
Macalister River at Glenmaggie Weir .. .. .	837,800	433,300 (1920)	+ 93
Snowy River at Jarrahmond .. .. .	4,206,000	1,744,000 (1907)	+ 141

Twelve new gauging stations were established as set out in the following table:—

Station.	Location.	Date Established.
Flynn's Creek .. .. .	Flynn .. .. .	8.9.49
Traralgon Creek .. .. .	Traralgon South .. .. .	8.9.49
Morwell River .. .. .	Yinnar .. .. .	4.10.49
Narracan Creek .. .. .	Coalville .. .. .	9.1.50
Timbarra River .. .. .	Timbarra .. .. .	10.1.50
Wannon River .. .. .	Hall's Gap .. .. .	26.1.50
Jimmy's Creek .. .. .	Hall's Gap .. .. .	26.1.50
Callaghan's Creek .. .. .	Barwon Downs .. .. .	1.8.49
Barramunga Creek .. .. .	Barramunga .. .. .	25.8.49
Gellibrand River .. .. .	Upper Gellibrand .. .. .	25.8.49
Hopkins River .. .. .	Burrumbidgee Hill .. .. .	10.10.49
Moe River .. .. .	Darnum .. .. .	12.9.49

Four automatic water level Recorders were installed during the year bringing the total now in operation to 39, while 640 measurements were obtained during the year of which 148 were channel measurements.

A cableway has been erected over the Thomson River upstream of the Walhalla Road Bridge to enable flood measurements to be obtained. An automatic Water Level Recorder has been installed on the Walhalla Road Bridge. Gauging of this stream will be discontinued at Cooper's Creek as from 30th June, 1950. The number of gauging stations in operation on the 30th June, 1950, was 164.

#### HYDRAULIC RESEARCH AND RELATED WORK.

##### *Werribee Experimental Station.*

Satisfactory progress was made during the year on the establishment of this station.

This Station is designed for the testing of scale models of hydraulic structures such as outlet and control works of dams, for calibrating measuring devices and to facilitate the study and solution of other hydraulic problems, such as scouring and siltation at regulating structures in channel systems. The main laboratory is large enough to accommodate models over 100 feet long. Other installations include a pumping station, service basin, large measuring tanks, wood-working and other machine shops, store, and office buildings.

One of the first tests to be carried out will be on a model of the Big Eildon Spillway to ascertain if economies can be made or if amendments to the design are desirable.

*Measurement of Irrigation Deliveries.*

Manufacture of a meter wheel designed for measuring small flows used by market gardeners was completed. This experimental model will be tested as soon as possible at the Werribee Station.

*Weed Control.*

Studies of the effect of weed growth in the Goulburn Waranga Channel were completed and assistance given with weed control experiments.

## SURVEY BRANCH.

During the year, the available survey staff has been largely concentrated on major projects such as the Murray Valley and Nambrok-Denison Soldier Settlement areas and the Rocklands, Cairn Curran, and Big Eildon Dams.

This has necessitated the postponement of land resumption surveys awaiting completion in many parts of the State. Unless the number of Licensed Surveyors on the Commission's staff can be greatly increased, many of these surveys will not be for two or three years. During the year, two pupil surveyors trained under the Commission's staff surveyors qualified as Licensed Surveyors but the resignation of two experienced officers left the total number of Licensed Surveyors in the Branch unaltered.

Progress on a limited number of investigation surveys has been made possible only by using Survey Assistants trained at the Commission's Survey Training School and working under the remote control of senior officers of the Branch.

The Draughting Staff has also been further reduced by resignations. The completion of some plans had had to be postponed in order to produce urgent work connected with major projects.

*Big Eildon.*

The whole of the works and new township areas have been covered by a 100-foot grid survey connected to a trigonometrical survey on the surrounding hills, which have been marked with substantial beacons.

*Nambrok-Denison.*

Subdivisional surveys of the Soldier Settlement have commenced and an additional 45 miles of channel have been located.

*Murray Valley.*

Pegging of blocks in the Soldier Settlement has continued and surveys of possible drainage outfalls commenced.

*Cairn Curran.*

Land resumption and silt section surveys are very nearly completed.

*Rocklands.*

Land resumption and silt section surveys are progressing.

*Soldier Settlement.*

In addition to the large projects of Murray Valley and Nambrok-Denison, sub-divisional surveys have been carried out for the Soldier Settlement Commission in Maffra-Sale, Rodney, Robinvale, Cohuna, and Tyntynder Districts and at Fulham.

## MAJOR WORKS CONSTRUCTION.

Every effort is being made to increase the rate of progress on the construction of major water supply works and to commence the most urgent of other approved projects. The availability of manpower and materials is, however, the limiting factor in the expansion of the Commission's activities, but an increase of 35 per cent. in the total casual labour employed during the year is a measure of the expansion which has taken place.

In addition the importation of large quantities of such basic materials as cement, steel and piping has permitted the works to continue although the cost of the imported materials is much in excess of similar local products.

There was some improvement in availability of construction plant due to the delivery of units which have been on order for considerable periods and also to more equipment being available from United Kingdom and continental sources.

## CONSTRUCTION BRANCH.

*Cairn Curran Reservoir.*

These works comprising a main earthen dam on the Loddon River and a subsidiary earthen embankment, will provide a reservoir having a capacity of 120,000 acre feet.

The subsidiary embankment has been constructed to within 3 feet of its final height. The quantity of material placed to date amounts to 336,654 cubic yards of which 7,000 cubic yards of gravel, 23,180 cubic yards of earth fill and 6,474 cubic yards of beaching stone has been placed during the year.

The excavation of overburden to solid rock foundation levels for the main bank is nearing completion, and the concreting of cut-off walls has been commenced. During the year 200,130 cubic yards of decomposed granite and 23,040 cubic yards of river silt have been removed from the site. Materials removed for the spillway comprise 11,242 cubic yards of rock and 18,336 cubic yards of decomposed granite.

The reinforced concrete outlet culvert has been completed; 6,769 cubic yards of a total of 6,932 cubic yards having been placed during the year. This culvert is now in use for the temporary diversion of the river during construction of the main dam, and finally will be used to accommodate the outlet discharge pipes.

Deviations of the highway and railway between Castlemaine and Maryborough, necessitated by the construction of the reservoir, have been commenced.

The number of men employed increased from 377 at the beginning of the year to 461 at the close. To utilize the construction plant to the best advantage three shifts were worked on most sections of the project.

*Rocklands Reservoir.*

Work is proceeding satisfactorily on the construction of the Rocklands Dam which will, when completed, create a reservoir with a capacity of 264,000 acre feet.

Of the total quantity of 72,000 cubic yards of concrete which will be in the completed dam, 39,500 have already been placed.

A commencement has also been made with the outlet works on which increased resources were concentrated in order to have the outlet channel available for use during the 1951 watering season.

During the year the driving of the 3,750-feet long tunnel on the main outlet channel was completed and preparations were made for lining with concrete sections where the rock formation is weak.

The Country Roads Board is carrying out works necessary for the deviation of a section of the Henty Highway which will be affected by the full supply level of the reservoir.

*Murray Valley Irrigation District.*

The total area of the Murray Valley Irrigation District is 269,000 acres. At the end of the period under review water has been made available for irrigation to 66 per cent. of the whole area.

During the year 70 miles of channel and structures were completed making a total of 450 miles in all, extending from the point of supply on the eastern end of the settlement to 5 miles west of the Numurkah-Strathmerton Railway Line. The number of cubic yards of earth excavated was 423,000 whilst 565 structures were completed.

Channel construction has been kept well in advance of the development of the Soldier Settlement Area of 60,000 acres within the district, and by the beginning of the 1950-51 irrigation season water will be available to 40 per cent. of this area.

During the year 53 blocks within the Soldier Settlement were allotted by the Soldier Settlement Commission making a total of 251 blocks in all and 221 of the settlers to whom these blocks have been allotted have actually entered into occupation.

During the year 2,978 acres of land were ploughed, graded, and check banked by the State Rivers and Water Supply Commission for the Soldier Settlement Commission and were sown down in lucerne or pasture. Up to date 9,500 acres of lucerne and pasture, together with 605 acres of fruit trees have been planted on the Soldier Settlement and with favourable seasonal conditions good results have been obtained from these plantings.



During the year the administration of the channel construction and land preparation works were unified and placed under the control of the Commission's Resident Engineer at Numurkah.

The maximum number of men employed on the work in the Murray Valley during the year was 424 with an average of 400, of whom about 100 were employed on land preparation.

*Central Gippsland Irrigation Project.*

During the year 14 miles of earthwork in the Main Southern, Nambrook-Denison Main and spur channels, together with the building of many large reinforced concrete channel structures was completed.

The Gilmore Excavating Company, using mechanical plant, excavated nearly 7 miles of the Main Southern Channel. In addition several piecework contractors, using horse drawn scoops, were employed on channel earthworks throughout the year.

Work was also commenced on the large reinforced concrete flumes which will have a total length of 18,800 feet when completed. More than 3,220 feet of this work has already been done.

A start was made with the construction of the syphon 7 feet in diameter and 4,365 feet in length, which will pass under the Thomson River. The syphon inlet and 1,042 feet of syphon tube has already been completed.

Another 25 houses for staff and key personnel have been completed at Heyfield making a total of 53 houses.

The average number of men employed throughout the year was 289.

*Tarago River Diversion Works.*

To provide for the requirements of the rapidly expanding population in the Mornington Peninsula, the Commission has commenced works for the diversion of water from the Tarago River to supplement supplies to that district. In addition to pipe lines, flumes, and syphons, the works include a tunnel 2 miles in length, the major portion of which will be through solid rock.

An access road and bridge have been built to the camp site near the proposed upstream portal of the tunnel. Specialized tunnelling equipment and materials have been purchased from abroad and locally and excavation of the tunnel has been started.

The number of men employed had increased to a total of 40 at the end of the year.

*Goulburn Waranga No. 2 Main Channel.*

Earthworks Limited of Palmerston North, New Zealand, which had accepted a contract with the Commission for the construction of the duplication of the first section of the Goulburn Waranga No. 2 Main Channel—8 $\frac{3}{4}$  miles—ceased operations at the beginning of December, 1949. The Commission then called world wide tenders, closing at 12 noon on 30th June, 1950, for the excavation of the total length of No. 2 Channel, nearly 14 $\frac{1}{2}$  miles, involving the removal of approximately 4 $\frac{1}{2}$  million cubic yards of earth.

Eight highly competitive tenders were received from overseas and Australia, and it is expected that a tender will be accepted in July.

*Lauriston Reservoir.*

The installation of the flood gates raising the capacity from 12,000 to 16,000 acre feet was completed in July, 1949, and the Reservoir has remained at approximately full supply level throughout the year.

*Housing.*

The following is a summary of the 54 residences constructed or acquired for use of the Commission's staff during the year:—

Completed during the year—Prefabricated	..	..	..	..	37
Completed during the year—Standard and special designs	..	..	..	..	7
Purchased ..	..	..	..	..	10
<hr/>					
Total additional houses available for occupation	..	..	..	..	54
<hr/>					
Under construction at 30th June, 1950—Prefabricated	..	..	..	..	10
Under construction at 30th June, 1950—Standard and special design	..	..	..	..	2
<hr/>					
Total under construction at 30th June, 1950	..	..	..	..	12
<hr/>					

Carlisle House, adjoining the Commission's Head Office in Exhibition-street, was purchased to provide additional accommodation for Head Office staff.

## EILDON BRANCH.

## THE EILDON PROJECT.

It was indicated in the last Annual Report that the Government had approved of the recommendations of the Parliamentary Public Works Committee for the enlargement of the Eildon Reservoir from its present capacity of 306,000 acre feet to 2,350,000 acre feet at an estimated cost of £9,600,000 and that the Commission had commenced preliminary planning for the construction of this great project.

However, as a result of a conference between this Commission and the State Electricity Commission agreement was reached with respect to a proposal of the State Electricity Commission for the raising of the proposed dam by an additional 12 feet to increase the capacity of the storage to 2,750,000 acre feet. The provision of this additional storage, together with enlarged outlets and a small pondage weir about a mile downstream to smooth out diurnal variations and fluctuations in discharge through the turbine over each 24 hours, will very greatly increase the value of the storage for hydro-electric power development without any detriment to irrigation interests. The additional cost of this work is estimated to be in the vicinity of £1,900,000 which will be entirely repaid from the value of the electrical energy produced.

Following upon this agreement and the completion of the necessary plans and specifications, tenders were invited throughout the world on the 25th February, 1950, for the construction of the new Eildon Dam, under either a Schedule of Rates Contract or a Cost-Plus Fixed Fee Contract with a Target Estimate, Bonuses and Incentives. Tenders closed at 12 noon on the 30th June, 1950, 8 being received, 4 from Great Britain, 3 from U.S.A., 1 of the latter being in association with an Australian firm, and 1 from New Zealand. It is expected that the contract will be placed early in August.

Something like 2,000 men will be engaged on the building of the dam and hostel works, and the total population at Eildon at the peak of activity will be about 4,000 men, women, and children. About one half of the total population will be workmen living in hostels, which means that 2,000 men, women, and children will have to be housed in the new township which will contain 700 houses. In view of the possibility of a large portion of the township remaining permanently after the completion of the work as a tourist centre and for industrial purposes, the Commission decided that the layout of the township would be in accordance with modern town planning methods, and Messrs. Bates, Smart, and McCutcheon were engaged to prepare a suitable plan.

For the permanent section of the town 300 pre-cut houses were ordered from England through the Victorian Railways Department, the first batch of which has already arrived in Melbourne. A contract for their erection is expected to be signed during August.

It is expected that the 300 pre-cut houses, together with the administrative offices, staff hostel, and the first hostel unit to house 320 workmen will be ready for occupation early in 1951. Work is proceeding on the necessary roads and will also begin shortly on the installation of electricity, water supply, sewerage, and drainage facilities.

To ensure that Eildon township develops on planned lines and to prevent ribbon development along access roads and the growth of undesirable sub-standard settlements outside the township, the Town and Country Planning Board, with the approval of the Governor in Council, and at the request of the Commission, issued an Interim Development Order prohibiting the erection, construction, and carrying out of any buildings, roads, or other works on any of the lands referred to in the declaration without the approval of the responsible authority.

The Commission purchased a saw-mill from Warburton and transferred it to Eildon in order to supply a large quantity of timber which will be required for the township, and in connection with the construction of the dam itself. Logs for this mill will be supplied by the Victorian Forests Commission from the State Forest in Dry Creek Valley adjacent to the saw-mill.

As over a million tons of materials will be required at the dam site the Commission has arranged with the Victorian Country Roads Board to place the Alexandra-Eildon Road in first class condition for heavy traffic. This work should be completed early in 1951.

## PLANT SECTION.

## CONSTRUCTION PLANT AND MACHINERY.

There has been a marked increase in the activities of the Plant Section this year both with respect to value of plant received and ordered and the plant handled.

1. *Plant Acquisition.*

(a) *From Local Agents.*—Orders to the value of £336,886 have been placed during the year for items of plant ranging from Excavators of 1 cubic yard capacity, and Crawler Tractors of various horse powers to small pumps and drills. Deliveries on most items have been of an extended nature, and, especially in regard to large crawler tractors, token deliveries only have been received against orders of long standing.

The value of the plant received this year through local suppliers was £390,400 compared with £105,192 last year. The increase in expenditure is not due solely to the increased costs of items and the devaluation of the £, but also to the larger number of items received, namely, 366 this year compared with 312 last year, consisting mainly of high priced items such as excavators and tractors.

Due to the extended deliveries generally there has been little or no progress by the trade in catching up on the back-log of outstanding orders. At 30th June, 1950, there were 313 items outstanding to the value of £608,372 compared with £535,321 covering 248 items at the end of June, 1949.

(b) *From Overseas Sources.*—Because of the unsatisfactory nature of the delivery of major plant items, in particular large crawler tractors due to restricted dollar allocations, a Purchasing Mission visited the United Kingdom and the Continent in July and August, 1949. The purpose of the Mission was to investigate the supply of reconditioned construction plant and the procurement of spare parts available for sterling.

Though the Mission found that supplies of equipment of the type sought were very limited, orders were placed in England for new excavators and high speed tractors available for immediate delivery and reconditioned crawler tractors and ancillary equipment with extended deliveries. However, because of demands for increases on the quoted prices consequent upon the devaluation of the £, some orders for reconditioned tractors with equipment were subsequently cancelled by the Commission. Due to limitation in shipping space from England the other units have not yet all been received. It is anticipated that the landed cost of the 80 items purchased will amount to approximately £250,000 Australian, exclusive of duty.

## TOWN WATER SUPPLIES.

## COLIBAN SYSTEM.

Rainfall in excess of the average over the Coliban catchment resulted in the filling of the Main Storages, comprising the Upper Coliban, Lauriston, and Malmsbury Reservoirs, towards the end of September. As the result of the installation of the crest gates at Lauriston, the combined capacities of these three reservoirs is now 56,256 acre feet. Deliveries of irrigation supplies began in September and finished in May. At the end of June, 1950, the reservoirs had regained 83 per cent. of their combined full capacities.

The work of concrete lining and fluming of channels as a method of improvement to minimize water losses in distribution has been continued. During the year 5.38 miles of fluming on the Malmsbury Bendigo Main, Main Harcourt and Swinburne Channels, have been completed, with favourable results. A new measuring weir has been established at the Specimen Hill Offtake.

The High Level Reservoir, Big Hill, was emptied in order to remove accumulations of silt and weed growths. The old beaching was reset and new stone added where necessary.

Investigations of sites that would be suitable for the construction of local basins, have been undertaken adjacent to urban areas, which are developing residentially and industrially.

Reticulation improvements have been effected in systems at Bendigo, Eaglehawk, Castlemaine, and Harcourt by laying 2.76 miles of extension and 6.11 miles of replacement pipes.

Rainfall in the vicinity of Newstead has been ample during the year to meet all the demands upon the local storage basins, which are filled by the Jim Crow Creek Channel.

## MORNINGTON PENINSULA DISTRICT.

The rate of building development throughout the Peninsula towns increased during the year, whilst the townships of Springvale, Dandenong, and Frankston developed industrially. Applications for new services totalled 1,819 as compared with 1,401 for the previous year.

To increase the capacity of the Bunyip Main Race work was continued on the concrete lining to a higher level along the Toomuc-Beaconsfield section and 25½ chains were completed. Owing to the shortage of labour, work on this section had to be suspended to make men available for urgent maintenance works.

The work of duplicating the Toomuc Creek Siphon with 30-inch diameter concrete lined mild steel pipes was completed, 2,820 lineal feet of pipe being laid.

The construction of the 30-inch main from the Beaconsfield Reservoir was commenced and 8,540 lineal feet (60 per cent.) of 30-inch diameter concrete lined mild steel main has been laid; a further 1,040 lineal feet of pipes are on hand and will be laid as soon as the concrete piers can be erected across the Cardinia Creek.

Investigation work for increasing the Bittern Reservoir was carried out, shafts and bores being sunk to determine what materials are available for construction so as to enable the preparation of plans and estimates for the enlargement of this Reservoir.

Repairs to the earthen embankment of the Mornington Reservoir have been commenced, including the placement of a concrete core wall 500 feet long, over a portion of the length through which seepage has been taking place for some years.

Reticulation pipes of sizes 3, 4, and 6 inches diameter were more readily available. However, shortage of skilled and unskilled labour greatly retarded progress in laying these pipes.

Extensions were made in Dandenong-Springvale, Chelsea-Frankston, South Frankston, Mornington, and Dromana-Portsea Urban Districts, and a total of 8.3 miles of fibrolite mains were laid, in addition 14,020 lineal feet of 12-inch diameter concrete lined mild steel main together with fittings were laid in Station-street from Bonbeach to Aspendale.

A nursery was established at Lysterfield Reservoir during the year and 35,000 seedling trees, mainly of messmate and red gum, are now in hand for planting about 50 to 60 acres of the catchment in the Spring of 1950.

## BELLARINE PENINSULA DISTRICT.

On the Wurdee Boluc Inlet Channel 44 chains of the 54-inch diameter steel pipes in the Whoorel Siphon have been stripped of their earth covering and supported on piers, in order to reduce external corrosion and facilitate maintenance. Approximately 12 chains of banked channel, passing through a low spot near Barwon Downs, which were riddled with yabbies, causing extensive water losses and flood damage, was concrete lined by "Guniting". A further 3 chains were concrete lined by hand methods.

To increase the capacity of the Wurdee Boluc Outlet Channel an additional four large culverts have been constructed to replace pipe culverts.

The receipt of portions of outstanding orders for steel plate and reinforcing steel has permitted a commencement to be made with the manufacture of the 30-inch diameter steel and reinforced concrete pipes for the replacement and enlargement of the Bellarine Pipe Line, between the Wauru Ponds Basin and the Geelong City take-off. In this section 1.2 miles of the reinforced portion has been laid and 0.36 miles of the steel portion has been positioned on the concrete piers and welded. Concrete piers for some 2 miles of the 18-inch steel portions of the main beyond the Geelong take-off have also been poured.

Improvements to the Bellarine Basin have been undertaken, to eliminate shallow water, which encourages weed growths, and to raise the capacity of the Basin from about 44 to 80 million gallons.

The fulfilment of some of the outstanding orders for pipes and materials has enabled some 3 miles of reticulated extension mains to be laid in the Urban Districts of the system.

Work on the construction of weirs on the Moorabool River could not be commenced until January owing to the continued high flow in the river.

Two weirs, a rock fill type at Maddern's and a mass-concrete weir at E. C. Capron's were in progress until heavy rains, late in February, caused the Moorabool River to overflow its banks.

Work could not be resumed until early March and had advanced to such a stage that Madden's Weir was nearly completed when flooding again occurred, and caused suspension of the work on both weirs. Further rains kept the river level up so that the work could not be recommenced. The concrete weir at Capron's was about half completed.

#### *Bulk Supply to Geelong.*

The quantity of water supplied in bulk to the Geelong Waterworks Trust during the year ending 30th June, 1950, was 932,661,000 gallons (3,425 acre feet) as compared with 995,578,000 gallons (3,657 acre feet) for the previous year.

#### *Warrnambool Auxiliary Basin.*

#### OTWAY DISTRICT.

Placing of beaching stone on the embankments was completed and the concrete outlet tower has been constructed.

#### *Meters.*

Two hundred and eighty-two meters were installed in the District during the twelve months bringing the number of services metered to 2,055 of a total of 2,287 (i.e.) 90 per cent. of the services are metered and for all practical purposes the District may now be classified as fully metered.

#### 1. *Reticulation.*

#### WONTHAGGI DISTRICT.

An extension to South Dudley, an outlying district of Wonthaggi, has been commenced. This will give a water service to 33 residences, and supply should now be available to this area before the end of August, 1950.

#### 2. *Storage.*

The quality of the water delivered from Lance Creek Reservoir has been generally satisfactory, although seasonal conditions necessitated treatment of the water therein with copper sulphate in March.

#### INSTALLATION OF WATER METERS.

The table summarizes the position in regard to the installation of water meters in the following Urban Districts—

District.	1949-50 Total Number of Services.	Meters Installed During Year.	Total.	Percentage.
Coliban .. .. .	13,730	1,363	7,858	57
Mornington Peninsula .. .. .	17,529	2,689	11,665	66
Bellarine Peninsula .. .. .	2,914	413	2,376	81
Otway .. .. .	2,287	282	2,055	90
Wonthaggi .. .. .	1,500	3	71	5
Total .. .. .	37,960	4,744	24,025	..

The number of services yet to be metered is considerably less than the 13,935 services not metered as at 30th June, 1950, as it is not intended to meter properties for which water service is solely for domestic use.

Meter deliveries have greatly improved and recently have considerably exceeded the capacity of Districts to install them. The total deliveries of meters from all sources for the twelve months was 10,849.

#### *Goulburn.*

Extensions and improvements in connection with the Stanhope Urban Water Supply reticulation have been planned by the Commission, and this work will be commenced as soon as the necessary fittings are delivered for the 6-inch and 3-inch fibro-pipes already at Stanhope.

At the township of Lockington which is an urban Division under the control of the Commission, there has been considerable building activity, and to meet the increasing water requirements, it is proposed to enlarge and extend the reticulation as soon as pipes and fittings on order are delivered. The automatic electric pumping unit installed last year has proved highly efficient.

*Wimmera-Mallee.*

During the year the storages of the 37 pipe reticulated townships in the Wimmera and Mallee directly controlled by the Commission received full supplies 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 townships of Horsham, Murtoa, Warracknabeal, Donald, Charlton, and Underbool which are controlled by local waterworks trusts.

Continuous supplies were maintained in the urban reticulations of Carwarp, Merbein, Meringur, Nyah, Nyah West, Piangil, Red Cliffs, and Werrimull, the waters being pumped from the River Murray.

The construction of the No. 2 Storage at Jung Jung, with a capacity of 2,965,000 gallons was completed during the year, and the remodelling and enlargement of the Brim Storage was carried out.

*Robinvale Township.*

The reticulation for the township of Robinvale was completed to a stage when pressure water is available to within the township.

Water is pumped from the River Murray by a 30-feet diameter windmill—one of the largest in Australia—to an elevated steel tank of 165,000 gallons capacity erected on an earthen mound 20-feet high with an elevation of some 53 feet above the township. A standby pumping plant with engine is provided in case of calm weather or breakdown of the windmill.

Twenty-six tenements have been connected in addition to the Railway Supply Tank and three railway houses. Further extensions will be made as the town develops.

## WATERWORKS TRUSTS AND LOCAL GOVERNING BODIES.

The Commission exercises a general supervision over the 142 local Authorities which supply water for domestic and industrial purposes in country towns throughout the State.

The Walwa Waterworks Trust was constituted during the past year, and proposals were approved for other new town supplies at Barnawartha, Glenorchy, Herne's Oak, Lake Bolac, Meeniyah, Skipton, and Streatham. It is anticipated that new Waterworks Trusts, or new Urban Districts of existing Trusts, will be formed shortly for the management of these supplies.

Throughout the year the current serious shortage of pressure piping continued to hamper the efforts of the local water Authorities to improve and develop their systems. Nevertheless, the total amount of work carried out continued its spectacular increase, and the total advances of Government loan and grant funds to these Authorities for the year reached £610,046. Capital expenditure during the recent years has amounted as follows:—

						£
1945-46	..	..	..	..	..	58,152
1946-47	..	..	..	..	..	257,079
1947-48	..	..	..	..	..	326,790
1948-49	..	..	..	..	..	456,700
1949-50	..	..	..	..	..	610,046

However, the estimated cost of town water supply works which have been approved but not yet constructed, has also continued to increase and is now £3,960,000. It is clear that local Authorities will be faced with further serious delays in the construction of urgent extensions and improvements until the supplies of piping and other materials improve. Thirty-two approved new town supplies to be controlled by existing local bodies cannot at present be constructed, principally because of the shortage of piping. With a view to alleviating the position the Commission is making arrangements for the importation of a large quantity of small diameter pressure piping for use in town supplies under its own control as well as those controlled by local Authorities, and imported materials are already being used in the manufacture of large diameter piping.

The Apollo Bay Waterworks Trust has accepted tenders for the construction of the first section of a new main pipeline and service basin to provide an improved supply from the West Barham River.



The Ballarat Water Commissioners are making good progress with the construction of the main embankment of the 3,000 million gallon White Swan Reservoir, as well as carrying out extensions and improvements to the reticulation of the city.

The Benalla Waterworks Trust has commenced the installation of the new main pipeline to convey the supply from its new reservoir on Ryan's Creek direct to the town, thus eliminating the use of natural watercourses as at present.

Following lengthy investigatory work, the Chiltern Waterworks Trust has been successful in obtaining a supplementary supply from underground sources using two new borehole pumping units which deliver into the existing main pipeline.

The Creswick Shire Council constructed a new main pipeline from the recently-enlarged Russell Reservoir, and has undertaken extensive reticulation improvements.

The First Mildura Irrigation Trust completed a further stage of the programme of improvements to its channel system by concrete lining and installation of pipelines. It also continued the construction of channel works associated with the new central pumping station project.

The Geelong Waterworks and Sewerage Trust constructed a new concrete-lined basin at Highton to enable it to use more water from the Commission's Bellarine system, and accepted tenders for piping for the new 24-inch Highton main and for the replacement of 15 miles of the Anakie-Lovely Banks main. Detailed investigations are proceeding in connection with the Bostock Reservoir project which is being designed to develop more completely the resources of the Trust's East Moorabool catchment area.

The Kiewa Waterworks Trusts is now installing the new town supply works which will serve the townships of Kiewa and Tangambalanga.

The Longwood Waterworks Trust has commenced the installation of a main pipeline to a new source of supply so that an improved service will be available in summer periods.

The Mirboo North Waterworks Trust has made steady progress with the installation of the new town supply works which are now nearing completion.

The Waterworks Trusts at Moe, Morwell, and Traralgon carried out further major extensions to their reticulation systems to serve new housing development which is associated with the rapid expansion of brown coal and power production in the Latrobe Valley.

The Myrtleford Waterworks Trust constructed a new service reservoir with an 8-inch connecting main to provide an improved supply during summer peak demands.

The Yarram Waterworks Trust replaced the greater portion of its old reticulation system with larger mains to provide adequate pressures.

Further progress was made during the year with the construction of improvement works commenced previously at Ballan, Glenrowan, Hamilton, Heathcote, Romsey, Korong Vale, Wedderburn, and Wangaratta.

Improvements and extensions to reticulation systems and other works were carried out at Ararat, Boort, Colac, Daylesford, Echuca, Hepburn, Horsham, Kerang, Kilmore, Macedon, Mildura, Nagambie, Port Fairy, Shepparton, Stawell, Warragul, Warrnambool, Wodonga, Woodend, and Yarrawonga.

Major improvement works were approved for Bright, Coleraine, Donald, Elmore, Gisborne, Horsham, Inglewood, Lancefield, Mansfield, St. Arnaud, Strathmerton, and Sunbury, but these works have not yet been commenced owing to the shortage of materials and labour.

Proposals for new supplies to many small country towns are at present being examined.

#### SEWERAGE AUTHORITIES.

During the year six new Sewerage Authorities were constituted to construct and manage sewerage systems at Bacchus Marsh, Camperdown, Donald, Jeparit, Port Fairy, and Terang. This increases the total number of Sewerage Authorities to 54 of which 29 control work in complete or partial operation.

Great difficulties are still being experienced in securing the necessary materials and skilled labour for sewerage work and, although an increasing number of extensions to existing systems is being carried out, it has not been found practicable to resume the construction of new systems. No less than thirteen Authorities (Beechworth, Charlton, Euroa, Lorne, Maryborough, Mooropna, Queenscliffe, Sale, St. Arnaud, Tatura, Werribee,

Wodonga, and Yarram) have now prepared detailed plans and specifications for new town sewerage systems and are awaiting the opportunity to construct their work, whilst the incomplete works at Leongatha and Traralgon where work was suspended in 1942 have not yet been re-commenced, and further works are still necessary to complete the partially-operating systems at Dimboola, Kyabram, Maffra, Mornington, Portland, and Yarrawonga.

At Moe, where major housing development has necessitated the urgent installation of a sewerage system, construction was commenced early in the year under review but slow progress only was made. Following the failure of construction by contract the Sewerage Authority is now carrying on the work by day labour.

Approval has been given to proposals submitted by the Morwell Sewerage Authority for major extensions and alterations to its sewerage system to provide for the rapid expansion of the town now taking place. Reticulation extensions are now in progress and the proposed works will include two new pumping stations together with a new outfall sewer and a new treatment plant which will supersede the existing plant when it is demolished to make way for brown coal winning operations.

The Traralgon Sewerage Authority likewise found it necessary to re-cast the plans for completion of its sewerage system to make provision for the large development of the town. Revised plans and specifications for these works are now being prepared.

Extensions to the existing sewer reticulation systems to serve housing projects, other closely built-up areas or new industrial establishments were carried out at Ararat, Ballarat, Benalla, Bendigo, Castlemaine, Colac, Dandenong, Echuca, Geelong, Hamilton, Horsham, Kerang, Mornington, Shepparton, Swan Hill, Wangaratta, Warragul, and Warrnambool.

Many recently-constituted Authorities are at present carrying out the detailed surveys of their sewerage districts and preparing plans and specifications for the works.

Proposals for the sewerage of Mansfield and Orbost have been approved and preliminary reports for proposed schemes in many towns are now being reviewed.

## DRAINAGE AND FLOOD PROTECTION WORKS.

### *Koo-wee-rup and Cardinia Districts.*

In the Koo-wee-rup District the construction of the large Yallock Floodway and protective embankment between Bayles and Cora Lynn has been advanced as far as practicable pending the provision of the necessary floodway openings through the Koo-wee-rup-Yannathan railway at Bayles, below which the Yallock outfall works are practically completed for the full length of  $6\frac{1}{2}$  miles to the outlet into Western Port Bay.

Mechanical excavators have continued with the work of improving the more important internal drains in the Koo-wee-rup District and have remodelled over 20 miles of these drains during the year.

In the eastern area the large No. 6 Yallock Drain was cleaned out for a distance of  $4\frac{1}{2}$  miles to the Modella-road and several lateral drains, totalling 4 miles in length, were deepened and regraded.

The work of reconditioning the Catch Drain on the south-east side of the Koo-wee-rup Main Canal was extended for  $2\frac{1}{2}$  miles to its termination at Cora Lynn and considerable improvement was effected to 10 miles of subsidiary drains including McDonald's Catch, 5 Mile, and 8 Mile Drains serving the north-western portion of the district.

In the Cardinia District mechanical excavators deepened and regraded the Muddy Gates Drain for a distance of  $1\frac{1}{2}$  miles from an arm of Sawtells Inlet below the South Gippsland Highway at Tooradin and removed the silt deposit in the Cardinia Outfall for a similar distance from Manks-road to the "V" Junction.

During the year, six additional timber bridges were wholly or substantially renewed, and general repairs were effected to 40 other structures. Continued difficulty is being experienced in obtaining supplies of bridge materials, particularly the better class of sawn timber required to complete several timber and steel bridges, totalling 550 feet in length, over the new floodways at Bayles.

Growth and obstructions have been removed by manual labour and rotary hoe from drains totalling 180 miles in length, and operations for destruction of rabbits have been carried out over some 60 miles of drainage reserves.



Privately owned suction plants operating under arrangement with this Commission have removed an additional 33,000 tons of coarse clean sand from the Koo-wee-rup Main Canal, and nearly 5,000 tons from the Cardinia Drain, during the year. The total output of sand from the Koo-wee-rup Canal has amounted to approximately 707,000 tons over the period since 1925.

#### *Carrum District.*

In the Carrum District, Whatley's and Eel Race Drains have been remodelled and regarded by mechanical excavator for a distance of  $1\frac{1}{2}$  miles from the Patterson River to Wells-road and the work of improving the Eel Race Drain above this road is now in progress. General maintenance operations have comprised the cleaning out and regrading of many miles of drains and supply channels, the removal of re-growth from the wide waterway of the Dandenong-Eumemmerring Out-fall, and repairs to several bridges and structures.

The question of improving the drainage of low lands in the Carrum Drainage District with particular reference to the residential lands in the City of Chelsea, and other relevant matters, have been referred to the State Parliamentary Public Works Committee for inquiry and report.

Reference is made on page 83-4 of this Report to the unsatisfactory financial position of these Districts and the need for increased revenues to cover cost of maintenance which fell very much into arrears during the war and post-war years when materials and labour shortages prevented work from being carried out. The revenues and expenditures of these districts for the last five years is shown hereunder.

### FLOOD PROTECTION AND DRAINAGE DISTRICTS.

#### *Revenue and Expenditure.*

Year.	Koo-wee-rup.		Cardinia.		Carrum.	
	Revenue Assessment.	Expenditure.	Revenue Assessment.	Expenditure.	Revenue Assessment.	Expenditure.
	£	£	£	£	£	£
1945-46.. ..	4,767	4,661	2,666	1,939	2,312	784
1946-47.. ..	4,742	5,255	2,716	2,477	2,364	2,625
1947-48.. ..	4,814	5,757	2,683	3,948	2,364	2,920
1948-49.. ..	4,807	9,999	2,862	4,046	2,729	3,144
1949-50.. ..	4,838	14,645	2,768	7,838	2,879	4,948
Total .. ..	23,968	40,317	13,695	20,248	12,648	14,421
Position at 30th June, 1950	Deficiency, £9,422		Credit, £28		Deficiency, £958	

### RIVER MURRAY LEVEES AND IMPROVEMENT WORKS.

Several applications for permission to erect levees along the River Murray for the protection of lands from flooding have been investigated by the Interstate Committee appointed for the purpose.

An Interstate Departmental Committee for River Improvement Works on the Murray and Indi Rivers was set up during the year and made several inspections. This Committee consists of engineers from the New South Wales Water Conservation and Irrigation Commission and the Victorian State Rivers and Water Supply Commission, and its function is to consider and report on proposals for river improvement works on the Murray and Indi Rivers, which form the greater part of the boundary between the States.

### RIVER IMPROVEMENT.

The passage of the *River Improvement Act* 1948 caused considerable interest in various parts of Victoria where difficulties were being experienced owing to flooding or erosion along streams. Following numerous meetings of landholders and Shire Councillors in various parts of the State, at many of which engineers of the Rivers and Streams Division explained the provisions of the Act, decisions were made by landholders and Shire Councils in a number of centres to apply for the constitution of river improvement districts along the valleys of various rivers.

The preparation of these applications in each case involved considerable work and discussion, and was hampered by the shortage of engineers experienced in river improvement work. However, the King River Improvement District, which extends for nearly 60 miles along the King River Valley and includes part of the Borough of Wangaratta, was constituted in February, 1950, on the application of the Oxley Shire Council, which has long taken a very active part in the improvement of rivers, with the concurrence of the Wangaratta Borough Council. The district, the first to be constituted, is under the King River Improvement Trust, which has commenced its meetings.

Other applications submitted by the Woorayl Shire Council for the constitution of a district along the lower portion of the Tarwin River, and by the Rosedale Shire Council, acting also on behalf of the Traralgon and Morwell Shire Councils, for the conversion of three Drainage Areas along the Latrobe River in these Shires into a river improvement district under a river improvement trust. Steps were being taken to constitute these Districts under local Trusts when the year closed.

Action was commenced on the preparation of other applications for river improvement districts on the Snowy, Mitchell, Avon, Tambo, Powlett, Ovens, and Kiewa Rivers; and discussions were held which will probably lead to applications for districts on a number of other streams.

By agreement between the Ministers of Public Works and of Water Supply, a Drainage Consultive Committee has been established. Proposals concerning existing Drainage Areas or projects involving land drainage are referred to this Committee, which advises as to whether each proposal should be dealt with under the River Improvement Act or the Drainage Areas Act. This Committee has already considered and reported on a number of cases.

#### *General Investigations.*

One of the chief difficulties to be overcome on Victorian rivers is the uncontrolled growth of willows, which, growing unchecked on many streams have become menaces seriously obstructing flow and encouraging siltation. The removal of these willows is often a difficult and costly work. Following reports from New Zealand as to success in the use of hormone preparation for killing willows, researches have been commenced into their use for the same purpose under Victorian conditions.

#### *Rivers and Streams Fund.*

The revenue from leased river frontages credited to the Rivers and Streams Fund for the year was £10,638.

Activity on river improvement work with the aid of this Fund has increased considerably. During the year, 104 grants totalling £43,463 were made to 46 different authorities, as against 63 grants the year before. These grants were made with one exception on a basis of £4 from the Fund to each £1 contributed locally, for river improvement works on 63 different streams.

Claims reimbursed from the Fund totalled £11,216. After deducting £43,447 for outstanding commitments a credit balance of £25,700 is available for allocation.

#### *Floods.*

Serious flooding occurred during the year in various parts of the State. In November, 1949, heavy rain in the Bendigo Creek Catchment caused an abnormal flow in the creek which inundated part of Bendigo City and did other damage. Several high floods occurred in the Snowy River causing a serious breach of the Marlo Road at Gilbert's Gulch, and other damage. A high flood in the Avon damaged the Princes Highway bridge, and eroded sections of the river flats estimated to total 40 or 50 acres. Heavy rainfall in the Shepparton area caused widespread flooding.

### WATER SUPPLY CATCHMENTS.

Part III. of the *Soil Conservation and Land Utilization Act 1947* provides for the establishment of a Land Utilization Advisory Council, consisting of the Chairman of the Soil Conservation Authority as Chairman of the Council, the Director of Agriculture, the Chairman of the Forests Commission, the Secretary for Lands, and the Chairman of the State Rivers and Water Supply Commission. The functions of this Council are to advise the Minister for Conservation and the Soil Conservation Authority as to policy regarding the use of land in catchments, and to make recommendations to the Authority in regard to the constitution and definition of catchments. The establishment of this Council is a most important step towards the preservation of the State's vital water catchments.

The first meeting of the Council was held on 26th April, 1950, and during June the Council made its first inspection, the location being the badly affected Parwan Creek areas which was described in the general report on the Melton Reservoir Catchment published by the Commission in 1948. Following the inspection it was decided to use this area as an experimental area and as a training ground for specialist personnel in the Soil Conservation Authority.

The Council has defined what it considers to be the more important water supply catchment areas in the State, and further action can shortly be expected in these areas.

A report on the catchment area which will supply the new storage at Cairn Curran on the Loddon River has been compiled on the lines of reports already made on the catchments of the Melton Reservoir and the proposed Tullaroop Storage. This new area lies immediately to the east of the Tullaroop Catchment and contains much of the same type of good basaltic land as is found there. However, there are considerable areas of very badly affected land resulting from old mining operations and some present workings, together with some quite large areas of country which must be attended to with modern conservation methods to prevent the new storage being adversely affected. The dredging operations do not constitute a threat, the conditions of operation being positive and the policing of them adequate.

The upper Campaspe River catchment, which supplies the Eppalock storage just above Axedale, is being investigated at present.

The catchment of the Wando Ponds north-east of Casterton on the Glenelg River System, was jointly inspected by officers from this Commission and the Soil Conservation Authority, to ascertain the source of abnormal siltation of the Wando Ponds Creek, a tributary of the Wando River. The major cause was found to be the unrestrained rabbit population which so acutely disturbs the granitic soils in the area, and which keeps the land in such a state as to promote high runoff. The excellent condition of a well-managed property in the area was found to be unaffected having apparently no rabbits thereon, and provided a good indication of what would be possible in the way of preventing erosion or siltation in this area.

#### FARM WATER SUPPLIES BRANCH.

This Branch, in addition to dealing with application under the Farm Water Supplies Advances Act No. 5174 has been available to advise on all matters relating to the supply of water to farms even if finance was not required.

Since the Farm Water Supplies Branch was set up some five years ago, 200 applications for advances have been dealt with, half of them relating to sub-surface drainage in the Swan Hill and Nyah Irrigation Districts.

These drainage works are estimated to cost £43,000 and advances were approved totalling £32,000. Good progress has been made with these works, 35 cases having been completed and a further 35 are well on the way to completion.

Where advice only was required, close on 500 inspections were made, covering all parts of the State, 70 being made during the past year. The works in respect to which advice was given covered practically all sources of supply and types of storage including bores, pumping from streams, low level weirs, gully dams, &c., varying in cost from £20 to £3,000 and averaging £300. They included the development of small irrigation plots in the Wimmera Region, the sources of supply being the Murray Artesian basin. Many hundreds of matters were dealt with by correspondence and interviews in the office.

The handbook *Farm Water Supplies for Domestic and Stock Purposes* compiled by Mr. H. B. Lincoln, A.M.I.E. (Aust.), Engineer in charge of the Branch, first published in 1947, is still in keen demand, about 10,000 copies having been distributed.

As supplies of this booklet have been exhausted, arrangements have been made for the publication of a revised edition.

A further handbook entitled *Farm Irrigation and Drainage* also by Mr. Lincoln, was issued during the year and is being widely circulated.

During the year, investigations were made into the possibility of lowering the water table in dried vine fruit-areas, by means of pumping from bores. This entailed visits of inspection to the Murrumbidgee Irrigation Area, New South Wales, and Renmark, South Australia, where similar investigations are in progress.

Bores were put down in the flats section of the Swan Hill Irrigation District, with the object of determining the possibility of obtaining suitable water for stock purposes during the off irrigation season.

The result was disappointing from a water point of view but much valuable information regarding the sub-structure of the soil was obtained.

Many samples of water were collected from bores and streams and the results of the analyses recorded.

With the coming into operation of the Rural Finance Corporation Act, however, and the consequential repeal of the Farm Water Supplies Advances Act, advances for Farm Water Supplies will in future be dealt with by the Rural Finance Corporation.

The Farm Water Supplies Branch has therefore been closed down and the officers transferred to other urgent and important work in connection with the implementation of the River Improvement Act. The supply of publication has, however, been continued.

#### ENGINEERING RESEARCH BRANCH.

There has been a steady increase in the work carried out by all sections of the Branch and this is particularly marked in regard to the number and variety of water samples submitted to chemical analysis.

As in previous years shortage of cement has proved a serious obstacle, but this disability has been minimized by the acquirement of cement from several different sources including New South Wales, Tasmania, and Britain.

Tests and inspections of various items, particularly cast iron pipe fittings and concrete pipes, have been conducted in several provincial centres, as progress in decentralization of certain industries has facilitated the purchase of certain supplies of this nature in various country districts.

The work carried out included routine laboratory tests for Commission and other Authorities, outdoor testing of materials and manufactured articles, inspection of materials supplied by contractors, water purification and analysis, soil mechanics, and miscellaneous investigations.

#### TREATMENT.

The plan which had been put into operation for collecting at regular intervals samples of water for analysis from the principal rivers and streams, major storages, town water supplies, and certain lakes, has worked satisfactorily in its initial stages, and has been increased in scope. In this connection many samples were received for analysis, in addition to a number on which only microscopical examination was required, or restricted or special tests such as the effect of chemical treatment to dispel turbidity or reduce colour.

Assistance was extended in the way of advice regarding the mineral contents of the water of certain rivers and town supplies, to representatives of large oversea industrial organizations contemplating setting up manufacture in Victoria.

Recommendations were made in a number of instances with regard to chemical treatment to improve the quality of the water in certain urban supplies, and also advice on kindred matters was tendered to the Farm Water Supplies Branch.

#### SOIL MECHANICS.

Five hundred and sixty-five samples of soil were received during the year. These, together with a large number of samples received in earlier years, were tested to determine the particle size distribution, optimum density, shearing resistance, permeability, organic matter and soluble solids.

The major portion of the year's work has been the completion of the testing of samples from the Cobbledicks Ford dam site on the Werribee River, and continuation of investigations on samples from the Tullaroop Creek Reservoir Site, together with tests on samples of soil from the projected sites of works on the River Murray at Marraboor and Gunbower National Channel Offtake near Torrumbarry.

Tests have also been made on samples from the location of the Waranga Channel and sites for reservoir construction for the Commission and Urban Waterworks Trusts. In addition tests were made on behalf of the Tasmanian Department of Public Works on samples of soil for the Devonport Harbour Wharf Extension Works.

The number of mechanical analysis and shear tests each constitute a record, this being obtained in the latter case largely through the working of overtime by several members of the staff.

Tests of copper and plastic tubing were made to determine their relative strength for use in piezometric installations.

During the year a number of visits were made to the Laboratory by University lecturers and engineers from various Authorities, chiefly from other States, with a view to discussion of the methods and procedures employed in testing soils and inspection of the equipment used.

#### MISCELLANEOUS INVESTIGATIONS.

It had been considered desirable to conduct oil tests in connection with the Commission's activities in which mechanical plant and equipment is employed and to meet this need suitable apparatus was obtained and tests on oil were carried out as required.

Samples of aggregate were received from various parts of the Country and tested for their suitability as components of concrete mixtures in several of the Commission's construction works.

An investigation was commenced into the use of fly-ash as an admixture in concrete to ameliorate certain undesirable features of the concrete and also to effect economy in cement requirements.

A number of tests were made on jointing compounds for use in expansion joints in concrete for lining of channels and reservoirs.

Field tests for long term observation were arranged to determine the relative value of various protective coatings, including paints, on exposed steel pipe lines.

In the Soil Mechanics Section the investigation has been continued on the shearing resistance of soils containing various proportions of sand, and clay.

Considerable progress has been made in the experimental research which is being conducted with regard to methods of control of aquatic and other weeds which are detrimental to the efficient functioning of reservoirs and water or drainage channels.

#### LAND VALUATIONS.

The most significant event affecting valuations during the past year was the lifting of controls from the sales of rural lands in September, 1949. Freedom from the stabilizing effect of a controlled market resulted in greatly increased sales, many at prices which made the task of assessing current market value extremely difficult. It has been necessary for Commission Valuers to analyse these market trends carefully so as to establish a firm basis on which to carry out their task.

#### VALUATIONS FOR LAND COMPENSATION.

The numerous claims of land owners whose properties are being compulsorily acquired for the Commission's works have been receiving very careful consideration in view of the market trends referred to above, which have tended to produce claims based on "freak" rather than ruling prices.

Detailed inspections and reports have been continued on such major post-war developmental works as Rocklands and Cairn Curran Reservoirs, Murray Valley Irrigation District and smaller channel works throughout the State.

The first stage in the Big Eildon Project—that of the acquisition of land required for the Commission's works and the new Eildon township—has been a major task in this connection. During the year, inspections and reports have been made on 43 of the 47 cases where Notices to Treat have been served. Twenty of these cases have been completed by the claimants' acceptance of offers totalling £36,490 in respect of claims to the total amount of £43,866.

The total number of settlements in all areas for the year was 67, amounts of accepted offers and relevant claims being £48,509 and £58,285 respectively.

#### VALUATIONS FOR RATING.

In the past year, it has been necessary to arrange the Branch's activities to comply with the provisions of the Water Act whereby lands in all Commission Districts, at present rated on 1938 valuations, are required to be revalued before the rating year 1951-52 commences.

To this end, valuations have been completed during the year in three Irrigation and Water Supply Districts and six Waterworks Districts, with valuations in progress in four Irrigation and three Waterworks Districts. Two of the latter are nearing completion. Net Annual Value and Unimproved Capital Value are being assessed in all cases. Of a



total of 57 Districts requiring valuation, 39 have been completed and progress made on 7 of the remaining 18. (The total numbers differ from those quoted in the report for 1948-49 due to the abolition of Drainage Districts as separate entities as from 1st July, 1949).

*Summary of District Rating Valuations.*

Detail.	Total Completed by 30th June, 1950.	Total Completed during Year ended 30th June, 1950.	In Progress or not Commenced.	Grand Totals.
Number of Districts .. .. .	30	9	18	57
Number of Assessments .. .. .	14,545	8,731	7,534 (approx.)	30,810 (approx.)
Area (acres) .. .. .	3,637,709	3,208,023	4,152,512 (approx.)	10,998,244 (approx.)
Unimproved Capital Value £ .. .. .	12,951,379	10,952,401	..	..
Net Annual Value £ .. .. .	1,391,729	996,819	..	..

Seven hundred and twenty-five Supplementary Valuations have been carried out during the year. Indicative of the eager market for land supplied with water and the consequent large number of sub-divisions; 400 of these, to a total Net Annual Value of £125,000, were in Irrigation Districts, while 325 (total Net Annual Value £34,000), were in Waterworks Districts.

DISTRICT VALUATIONS APPEALS.

Protests against the revaluation of their properties were lodged by 38 landowners. Of these, one was settled by agreement after check valuation, while fourteen others were withdrawn. The remaining 23 were in the Robinvale Irrigation and Water Supply District, where, for the first time in a District of this kind, rates were made on the basis of the assessment of Unimproved Capital Value. Because of this fact, and also because the appellants were Soldier Settlers on holdings in various stages of development, the principle of Unimproved Capital Value assessment and the reasons for its adoption in this district were explained at a special meeting held for the purpose.

However, the appellants decided to contest the cases before a Stipendiary Magistrate at a sitting of the Court of Petty Sessions in the manner provided for in the Water Acts. Following the dismissal of one such case, the remaining appeals were withdrawn.

GENERAL VALUATIONS.

Valuations of residence and other sites in country towns have been made with a view to purchase by the Commission for the housing of staff and other purposes. This work was carried out often at short notice because of the keenness of competition.

VALUATION RESEARCH.

Considerable research and analysis of land sales has been carried out with the help of Mr. I. Baker, B.Com., Assistant Economic Research Officer, with a view to the establishment of values representing the enhancement to land possessed of a water right.

Statistical examination of 181 sales of land in the Murray Valley District reveals that the overall average price per acre (inclusive of improvements) of partially irrigated land with a 1 : 4 water right was in the year under review £28 per acre, while in adjoining "dry" areas the average was £11 per acre. The irrigation charge in this area is 10s. per acre foot.

That these two groups of land are of very similar soil quality is demonstrated by the price of each in 1935-36 (i.e. before irrigation) when the land now irrigated averaged £8 10s. per acre as against £8 per acre for land in the "dry" group.

A further analysis was made of over 600 sales of land in the Tongala, Rochester, and adjoining districts, again relating the respective values of irrigated and "dry" lands of similar soil quality. This resulted in the determination of an average price per acre

of £43 10s. (including improvements) for irrigated properties and £10 in the adjoining "dry" areas. In 1935-36, the respective average values per acre were £19 10s. per acre for land in irrigation districts and £8 per acre outside. The water right in these irrigated areas averages 1 acre foot of water to each  $2\frac{1}{2}$  acres.

It will be apparent that not all the difference is directly attributable to the enhancement due to an assured supply of water to the land as more intensive improvements per acre are found on the smaller irrigation properties than on the larger "dry" farms.

This information, of course, cannot be applied to any particular holding as each property in any district has its own characteristics which must be considered when value is being assessed. Current farming practice on the holding, the proportion of land which can be commanded by gravity water, the extent of water right held or available and the adequacy of drainage—these and other factors affect ultimate value in varying degrees.

However, the results of investigations so far can be regarded as a useful guide to valuers for their work in Irrigation Districts.

#### STAFF.

In March, 1950, Mr. E. A. Ryland, Chief Valuer, commenced long-service leave prior to his retirement.

#### TRANSPORT.

The total number of vehicles in the service of the Commission at the end of the year under review is 461, comprising 188 owned by, and hired from, officers and other employees of the Commission and 273 owned by the Commission. The 188 vehicles hired at a rate-per-mile basis travelled during the year a total distance of 369,690 miles. The Commission's vehicles comprising 26 cars, 137 utility trucks, and 110 other types chiefly of the heavy variety, travelled a distance of 2,265,670 miles for the year. Thus, the total mileage covered by vehicles in the Commission's service for the year was 2,635,360 miles.

The supply of new vehicles has improved slightly, especially in regards to utility trucks of the light type. For the year 72 new vehicles were delivered to the Commission, mostly as replacements of worn out vehicles.

The second of two heavy machinery transporters ordered was put into service in October. The first transporter which went into operation at the end of the previous year has been giving excellent service and has travelled approximately 12,000 miles for the year.

The second transporter has travelled 7,000 miles since October. Both have been engaged on the movement of heavy earth moving machinery and other plant.

#### LIBRARY.

The Technical Library, which has some 5,000 books and regularly receives 220 periodicals, has continued to play a very important part in the Commission's organization by collecting and making readily available to officers, both in the city and various parts of the State, valuable information required for their work.

Booklets, pamphlets, and other material published by the Commission with regard to its activities were in very great demand during the year by other Government Authorities, University Students, members of the general public and school children.

However, it has now become impossible to meet individually the very numerous requests for information from school children, and a policy of supplying publications only to school libraries on request from librarians has now been adopted.

Shortage of staff and changes in personnel during the year have placed additional work upon the limited library staff, and it has been impossible to keep the library work up to date even though considerable overtime is being worked.



## HOUSING.

The following statement shows the houses constructed or purchased by the Commission since the end of the war.

Financial Year and Group .. .. .	1945-46.	1946-47.	1947-48.	1948-49.	1949-50.	Total Completed Houses.	Under Construction 31st June, 1950.
<i>Temporary.</i>							
1. Houses erected on construction works ..	21	18	43	74	46	202	3
<i>Permanent.</i>							
2. Houses purchased for District or Pumping Stations .. .. .	1	9	12	8	11	41	..
<i>Permanent.</i>							
3. Houses in Districts or Pumping Stations including "prefabs" .. .. .	4	11	22	32	48	117	11
Totals .. .. .	26	38	77	114	105	360	14

## FIRST MILDURA IRRIGATION TRUST.

The Chairman of the First Mildura Irrigation Trust, Commissioner W. B. Hawson, presented his report covering the activities of the Trust for 1949-50 irrigation season to the annual meeting of ratepayers held at Mildura on the 7th June, 1950.

The report stated that all pumping stations were able to discharge their duties during the season, although some short hold-ups occurred at times because of mechanical troubles.

The quantities of fuel consumed were 28,996 tons of firewood and 139 tons of oil.

Four ordinary and two special irrigations involving 122½ days pumping were given during the year, the quantity of water pumped being 38,406 acre feet and the area irrigated 12,958 acres.

### PART III.—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 rates made and levied by the Commission in Irrigation and Water Supply Districts during the year were not altered from those made for the previous year. With the exception of two districts the compulsory irrigation charges were increased in districts where water for irrigation is obtained by gravitation from the various storage reservoirs throughout the State, and the unit charge was increased in the four districts which are supplied with water by pumping from either the River Murray or storages.

In Waterworks Districts no increases were made in the rates levied for the year.

As compared with the previous year, the rates made and levied in twelve Urban Districts were increased. In one Urban District the minimum amount of rate for land on which there is a building was increased.

Lands in the newly constituted Macorna and Tallygaroopna Urban Divisions were rated by the Commission for the first time.

With the exception of the Carrum Drainage District all Drainage Districts have been abolished but a drainage rate was made in all Irrigation Districts where drainage facilities have been provided. No alteration was made in the rates or charges in Flood Protection Districts.



VALUATIONS, RATES, IRRIGATION CHARGES, AND FOOD 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.	Unimproved Capital Value.	Annual Value of Lands and Tenements.	Rate in the £1 made during Year ended 30th June, 1950.				Compulsory Irrigation Charge per Acre foot of Water Right, Season 1949-50.	Number of Assessments.	Estimated Number of Persons Dwelling in District.
						Drainage Rate.						
						General Rate.						
IRRIGATION AND WATER SUPPLY DISTRICTS.												
					Valuation by Commission.	Divisions.						
						1st.	2nd.	3rd.	1st.			
				£	£	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	
<i>Supplied from Southern State Works.</i>												
21. BACCHUS MARSH ..	6,760	3,314	3,316	252,328	17,143	1 0	0 6	..	..	22 6	201	681
22. MAFFRA-SALE ..	54,221	23,072	23,088	1,004,004	86,390	1 0	0 6	0 3	1 6	15 0	496	2,164
23. WERRIBEE ..	9,703	8,148	8,149	289,146	33,584	1 0	0 6	..	0 8	15 0	253	1,615
Totals ..	70,684	34,534	34,553	..	137,117	..	..	..	..	..	950	4,460
<i>Supplied direct from River Murray.</i>												
24. NYAH ..	3,838	2,703	7,323	..	9,527	0 6	..	..	1 6	..	240	870
25. RED CLIFFS-MERBEIN ..	41,483	18,905	57,363	950,845	222,040	0 6	0 3	0 1½	1 6	..	1,513	5,300
26. ROBINVALE ..	2,658	2,079	..	60,492	10,977	0 3	..	..	..	..	60	300
Totals ..	47,979	23,687	64,686	..	242,544	..	..	..	..	..	1,813	6,470
<i>Supplied on a Sale of Water Basis.</i>												
27. CAMPASPE ..	19,725	..	..	153,662	9,005	2 0	1 0	..	..	..	146	110
28. TRESCO ..	3,482	2,000	..	20,602	4,741	2 6	1 3	..	..	..	181	247
Totals ..	23,207	2,000	..	..	13,746	..	..	..	..	..	327	357
Totals (Irrigation) ..	2,004,058.	1,018,025	553,602	..	1,208,432	..	..	..	..	..	13,409	38,882

## VALUATIONS, RATES, AND FLOOD PROTECTION CHARGES.

Districts supplied with Water for Domestic and Ordinary use and for Watering Cattle or other Stock.	Un-improved Capital Value.	Annual Value of Lands and Tenements.	Rate in the £1 made during Year ended 30th June, 1950.	Minimum Amount of Rate per 640 Acres on Lands in the First Division.	Number of Assessments.	Estimated Number of Persons Dwelling in District.
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## WATERWORKS DISTRICTS.

			Valuation by Commission.	Divisions.								
				1st.	2nd.	3rd.						
<i>Supplied from Wimmera-Mallee System.</i>			£	£	s. d.	s. d.	s. d.	£	s. d.			
29. BIRCHIP .. .. .	..	..	..	41,955	2 6	1 3	0 7½	10 13 4	685	850		
30. HINDMARSH .. .. .	..	..	139,980	8,719	2 6	..	0 7½	10 13 4	51	238		
31. KARKAROOC .. .. .	..	..	680,638	129,957	3 0	1 6	0 9	10 13 4	1,297	4,500		
32. LONG LAKE .. .. .	..	..	..	71,998	3 4	1 8	0 10	10 13 4	807	2,000		
33. OUYEN .. .. .	..	..	..	38,410	3 4	1 8	0 10	10 13 4	842	2,000		
34. SEA LAKE .. .. .	..	..	..	63,900	3 4	..	0 10	10 13 4	704	1,750		
35. TYNTYNDER .. .. .	..	..	..	47,868	3 4	1 8	0 10	10 13 4	1,003	1,820		
36. TYRRELL .. .. .	..	..	..	39,074	3 4	1 8	0 10	10 13 4	841	2,400		
37. TYRRELL WEST .. .. .	..	..	..	18,118	3 4	1 8	0 10	10 13 4	529	1,000		
38. UPPER WESTERN WIMMERA .. .. .	..	..	448,496	64,468	1 8	0 10	0 5	10 13 4	502	1,680		
39. UPPER WIMMERA UNITED .. .. .	..	..	893,507	115,981	1 8	0 10	0 5	10 13 4	828	2,250		
40. WESTERN WIMMERA .. .. .	..	..	5,049,764	287,151	1 6	0 9	0 4½	..	2,187	8,488		
41. WIMMERA UNITED .. .. .	..	..	1,177,141	354,596	1 1	0 6½	0 3½	10 13 4	1,916	6,935		
42. WYCHEPROOF .. .. .	..	..	..	76,087	2 6	1 3	0 7½	10 13 4	992	2,380		
43. WYCHITELLA .. .. .	..	..	796,354	45,234	2 1	..	0 6½	10 13 4	469	479		
Totals .. .. .	..	..	..	1,403,516	..	..	..	..	13,653	38,770		
<i>Supplied direct from River Murray.</i>												
44. CARWARP .. .. .	..	..	19,752	4,301	3 4	1 8	0 10	10 13 4	166	90		
45. CARWARP CENTRAL .. .. .	..	..	2,550	666	3 4	1 8	..	10 13 4	22	30		
46. COREENA .. .. .	..	..	..	5,225	3 4	1 8	0 10	10 13 4	153	200		
47. MILLEWA .. .. .	..	..	55,549	14,114	3 4	1 8	0 10	10 13 4	434	384		
48. MILLEWA CENTRAL .. .. .	..	..	21,922	9,252	3 4	1 8	0 10	10 13 4	282	301		
49. YELTA .. .. .	..	..	..	1,780	3 4	..	0 10	10 13 4	41	24		
Totals .. .. .	..	..	..	35,338	..	..	..	..	1,098	1,029		
<i>Supplied by Bores.</i>												
50. WALPEUP WEST .. .. .	..	..	..	46,621	1 0	0 6	..	5 6 8	1,047	1,750		
<i>Supplied from Coliban System.</i>												
51. AXE CREEK .. .. .	..	..	18,466	1,985	2 0	..	..	..	65	250		
52. HARCOURT .. .. .	..	..	63,503	9,217	1 6	..	..	..	187	600		
Totals .. .. .	..	..	..	11,202	..	..	..	..	252	850		
<i>Miscellaneous.</i>												
53. EAST LODDON .. .. .	..	..	303,465	19,247	1 0	0 6	0 3	..	263	191		
54. KERANG NORTH-WEST LAKES .. .. .	..	..	..	7,400	0 8	..	..	..	183	310		
55. LODDON .. .. .	..	..	505,649	29,690	1 4	0 8	0 4	..	304	303		
56. NORMANVILLE .. .. .	..	..	..	33,623	2 0	1 0	0 6	10 13 4	313	307		
57. WERRIBEE .. .. .	..	..	68,178	5,712	2 0	..	..	..	65	110		
58. WEST LODDON .. .. .	..	..	..	29,332	1 0	0 6	0 3	..	311	335		
Totals .. .. .	..	..	..	125,004	..	..	..	..	1,439	1,556		
Totals (Waterworks) .. .. .	..	..	..	1,621,681	..	..	..	..	17,489	43,955		

## 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, 1950.	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.
URBAN DISTRICTS AND DIVISIONS.							
<i>Supplied from Bellarine Peninsula System.</i>							
	£	s. d.	s. d.	s. d.	s. d.	s. d.	
59. ANGLESEA .. .. .	4,838	2 4	50 0	10 0	1 0	1 0	203 300
60. BARWON HEADS AND OCEAN GROVE ..	19,692	2 0	40 0	10 0	1 0	1 0	935 1,300
61. BIRREGURRA .. .. .	3,034	2 4	50 0	10 0	1 0	1 0	147 460
62. DRYSDALE .. .. .	4,014	2 0	50 0	10 0	1 0	1 0	159 520
63. PORTARLINGTON .. .. .	5,311	2 4	50 0	10 0	1 0	1 0	277 730
64. QUEENSLIFF AND POINT LONSDALE ..	39,755	2 0	40 0	10 0	1 0	1 0	844 3,300
65. TORQUAY .. .. .	9,595	2 4	50 0	10 0	1 0	1 0	392 650
Totals .. .. .	86,239	..	..	..	..	..	2,957 7,260
<i>Supplied from Mornington Peninsula System.</i>							
66. BERWICK .. .. .	11,497	1 5	30 0	10 0	1 0	1 0	297 989
67. BITTERN .. .. .	815	2 2	40 0	10 0	1 0	1 0	71 110
68. BUNYIP .. .. .	4,823	1 8	33 4	10 0	1 0	1 0	154 467
69. CHELSEA-FRANKSTON .. .. .	260,829	1 4	20 0	10 0	1 0	1 0	7,643 22,400
70. CRANBOURNE .. .. .	5,006	1 4	20 0	10 0	1 0	1 0	150 352
71. CRIB POINT .. .. .	4,829	2 2	40 0	10 0	1 0	1 0	320 670
72. DANDENONG-SPRINGVALE .. .. .	187,513	1 3	20 0	10 0	1 0	1 0	5,234 11,431
73. DROMANA-PORTSEA .. .. .	100,481	2 2	40 0	10 0	1 0	1 0	3,313 4,600
74. GARFIELD .. .. .	3,562	1 8	33 4	10 0	1 0	1 0	86 315
75. HASTINGS .. .. .	4,473	2 2	40 0	10 0	1 0	1 0	200 580
76. LONGWARRY .. .. .	4,289	1 8	33 4	10 0	1 0	1 0	119 329
77. MORNINGTON .. .. .	70,352	1 4	20 0	10 0	1 0	1 0	1,483 3,600
78. PAKENHAM .. .. .	9,974	1 8	33 4	10 0	1 0	1 0	222 853
79. SOMERVILLE .. .. .	3,869	2 2	40 0	10 0	1 0	1 0	106 360
80. SOUTH FRANKSTON .. .. .	2,893	1 6	40 0	10 0	1 0	1 0	512 1,110
Totals .. .. .	675,205	..	..	..	..	..	19,910 48,166
<i>Supplied from Otway System.</i>							
81. ALLANSFORD .. .. .	1,345	2 6	50 0	10 0	1 0	1 0	72 290
82. CAMPERDOWN .. .. .	47,396	2 6	50 0	10 0	1 0	1 0	1,005 3,000
83. COBDEN .. .. .	11,746	2 6	50 0	10 0	1 0	1 0	334 900
84. TERANG .. .. .	33,841	2 6	50 0	10 0	1 0	1 0	707 2,150
Totals .. .. .	94,328	..	..	..	..	..	2,118 6,340
<i>Supplied from Wimmera-Mallee System.</i>							
85. ANTWERP .. .. .	214	2 4	50 0	10 0	1 4	1 0	25 46
86. BERRIWILLOCK .. .. .	1,282	3 6	50 0	10 0	1 0	1 0	63 180
87. BEULAH .. .. .	3,464	2 0	40 0	10 0	1 0	1 0	197 373
88. BIRCHIP .. .. .	5,621	3 4	50 0	10 0	1 0	1 0	322 790
89. BRIM .. .. .	961	2 4	50 0	10 0	1 0	1 0	70 200
90. CHILLINGOLLAH .. .. .	240	3 6	50 0	10 0	1 4	1 0	31 30
91. CHINKAPOOK .. .. .	587	3 6	50 0	10 0	1 4	1 0	32 100
92. CULGOA .. .. .	1,179	2 4	50 0	10 0	1 0	1 0	53 160
93. DIMBOOLA .. .. .	19,712	1 4	20 0	10 0	1 0	1 0	644 1,784
94. DOON .. .. .	169	1 4	20 0	10 0	1 0	1 0	6 24
95. HOPETOUN .. .. .	6,937	2 0	40 0	10 0	1 0	1 0	285 756
96. JEPARIT .. .. .	9,094	1 5	30 0	10 0	1 0	1 0	296 880
97. JUNG JUNG .. .. .	893	3 6	50 0	10 0	1 0	1 0	43 163
Carried Forward .. .. .	50,353	..	..	..	..	..	2,067 5,486

## 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, 1950.	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.
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## URBAN DISTRICTS AND DIVISIONS—continued.

				Municipal Valuation.				Rate Allowance.	Excess.		
				£	s. d.	s. d.	s. d.	s. d.	s. d.		
<i>Supplied from Wimmera-Mallee System—continued.</i>											
Brought forward .. ..				50,353						2,067	5,486
98.	LALBERT .. ..			658	3 6	50 0	10 0	1 0	1 0	53	125
99.	LASCELLES .. ..			748	3 6	50 0	10 0	1 0	1 0	71	153
100.	MANANGATANG .. ..			2,550	2 4	50 0	10 0	1 4	1 0	112	310
101.	MARNOO .. ..			1,575	2 4	50 0	10 0	1 0	1 0	41	300
102.	MINYIP .. ..			6,217	1 10	40 0	10 0	1 0	1 0	255	700
103.	NANDALY .. ..			305	3 6	50 0	10 0	1 4	1 0	32	100
104.	NATIMUK .. ..			3,129	1 4	20 0	10 0	1 0	1 0	158	549
105.	NULLAWIL .. ..			668	3 6	50 0	10 0	1 4	1 0	41	95
106.	OUYEN .. ..			8,988	2 6	50 0	10 0	1 4	1 0	384	1,000
107.	PATCHEWOLLOCK .. ..			681	2 4	50 0	10 0	1 4	1 0	65	143
108.	PIMPINIO .. ..			299	0 4					25	68
109.	QUAMBATOOK .. ..			2,754	2 0	40 0	10 0	1 0	1 0	150	465
110.	RAINBOW .. ..			8,915	1 4	20 0	10 0	1 0	1 0	293	710
111.	RUPANYUP .. ..			5,815	2 10	50 0	10 0	1 0	1 0	208	700
112.	SEA LAKE .. ..			7,134	1 6	30 0	10 0	1 0	1 0	265	710
113.	SPEED .. ..			431	3 6	50 0	10 0	1 4	1 0	21	83
114.	TEMPY .. ..			263	2 6	50 0	10 0	1 4	1 0	32	102
115.	ULTIMA .. ..			2,010	3 6	50 0	10 0	1 0	1 0	141	250
116.	WAITCHIE .. ..			125	3 6	50 0	10 0	1 4	1 0	31	30
117.	WALPEUP .. ..			882	3 0	50 0	10 0	1 4	1 0	58	140
118.	WATCHEM .. ..			1,787	3 6	50 0	10 0	1 0	1 0	113	240
119.	WOOMELANG .. ..			1,811	2 4	50 0	10 0	1 0	1 0	123	315
120.	WOORINEN .. ..			1,423	3 6	50 0	10 0	1 0	1 0	64	200
121.	WYCHEPROOF .. ..			6,827	2 10	50 0	10 0	1 0	1 0	265	720
122.	YAAPEET .. ..			303	3 6	50 0	10 0	1 4	1 0	29	56
Totals .. ..				116,651						5,097	13,750
<i>Supplied from Torrumbarry System.</i>											
123.	COHUNA .. ..			15,853	1 4	20 0	10 0	1 0	1 0	447	1,190
124.	KOONDROOK .. ..			2,646	3 6	50 0	10 0	1 0	1 0	187	516
125.	LEITCHVILLE .. ..			2,551	2 4	50 0	10 0	1 0	1 0	107	241
126.	MURRABIT .. ..			300	3 6	50 0	10 0	1 4	1 0	24	54
Totals .. ..				21,350						765	2,001
<i>Supplied direct from River Murray.</i>											
127.	CARWARP .. ..			98	3 0	50 0	10 0	1 4	1 0	16	15
128.	LAKE BOGA .. ..			2,780	3 6	50 0	10 0	1 0	1 0	135	390
129.	MERBEIN .. ..			16,302	1 10	40 0	10 0	1 0	1 0	463	1,500
130.	MERINGUR .. ..			275	3 6	50 0	10 0	1 8	1 0	24	50
131.	NYAH .. ..			1,623	1 10	40 0	10 0	1 0	1 0	71	180
132.	NYAH WEST .. ..			6,016	1 10	40 0	10 0	1 0	1 0	164	450
133.	PIANGIL .. ..			1,124	2 6	50 0	10 0	1 0	1 0	84	130
134.	RED CLIFFS .. ..			27,913	1 4	20 0	10 0	1 0	1 0	597	2,000
135.	WERRIMULL .. ..			1,084	3 6	50 0	10 0	1 8	1 0	62	117
Totals .. ..				57,215						1,616	4,832
<i>Miscellaneous.</i>											
136.	BACCHUS MARSH .. ..			22,897	1 4	20 0	10 0	1 0	1 0	636	1,987
137.	COROP .. ..			151	2 0	40 0	10 0	1 0	1 0	22	65
138.	DINGEE .. ..			354	3 6	50 0	10 0	1 0	1 0	22	49
139.	HEYFIELD .. ..			5,300	3 0	50 0	10 0	1 0	1 0	162	830
140.	LOCKINGTON .. ..			2,353	2 0	40 0	10 0	1 0	1 0	102	200
141.	MACORNA .. ..			394	3 6	135 0	10 0	1 4	1 0	32	54
142.	MARONG .. ..			899	3 6	50 0	10 0	1 0	1 0	51	300
143.	MITIAMO .. ..			795	3 6	50 0	10 0	1 0	1 0	51	133
144.	NEWSTEAD .. ..			3,399	3 6	50 0	10 0	1 0	1 0	157	400
Carried forward .. ..				36,542						1,235	4,018



## 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, 1950.	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.
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## URBAN DISTRICTS AND DIVISIONS—continued.

Miscellaneous—continued.				Municipal Valuation.	Rate Allowance.		Excess.		
				£	s. d.	s. d.	s. d.		
Brought forward	..	..	..	36,542				1,235	4,018
145. PYRAMID HILL	..	..	..	4,171	1 6	30 0	10 0	1 0	151
146. STANHOPE	..	..	..	2,186	1 6	30 0	10 0	1 0	78
147. TALLYGAROPNA	..	..	..	709	3 6	100 0	10 0	1 0	37
148. WONTHAGGI	..	..	..	48,490	1 6	30 0	10 0	1 0	1,786
Totals	..	..	..	92,098	..	..	..	..	3,287
									10,383

## COLIBAN SYSTEM.

				Municipal Valuation.	Rate Allowance.		Excess.		
				£	s. d.	s. d.	s. d.		
149. COLIBAN	..	..	..	473,931	1 6	20 0	10 0	1 0	14,963
Includes Bendigo, Castlemaine, Eaglehawk, Maldon, Barker's Creek, Campbell's Creek, Chewton, Elphinstone, Epsom, Ascot, Fryerstown, Guildford, Harcourt, Huntly, Kangaroo Flat, Myer's Flat, Raywood, Sebastian, Spring Gully, Taradale, and Yapeen. See under Waterworks Districts for Axe Creek and Harcourt rural supplies and under Urban Districts for Marong.									
Totals (Urban)	..	..	..	1,617,017	..	..	..	..	50,713
									154,232

District.	Unimproved Capital Value.	Rate in the £1 made during Year ended 30th June, 1950.	Number of Assessments.	Estimated Number of Persons Dwelling in District.
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## DRAINAGE DISTRICT.

						Divisions.					
						1st.	2nd.	3rd.	4th.		
£						s. d.	s. d.	s. d.	s. d.	4,871	5,100
150. CARRUM	..	..	..	..	..	0 3	0 2½	0 1½	0 0¾		
						(with a minimum amount of rate of 2s. per tenement)					

District.	Annual Value of Lands and Tenements.	Rate in the £1 made during Year ended 30th June, 1950.	Number of Assessments.	Estimated Number of Persons Dwelling in District.
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## FLOOD PROTECTION DISTRICTS.

		Valuation by Commission.	Divisions.					
			1st.	2nd.	3rd.	4th.		
£	s. d.	s. d.	s. d.	s. d.				
151. LOWER KOO-WEE-RUP .. ..	57,388	2 0	1 6	1 0	0 6	1,006	3,000	
Area in Acres.	Charge per Acre made during Year ended 30th June, 1950.							
	s. d.	s. d.	s. d.	s. d.				
152. CARDINIA .. ..	26,673	3 2	2 4½	1 7	0 9½	272	800	
153. KANYAPELLA .. ..	12,650	0 3	..	0 1½	..	43	68	
154. LOCH GARRY .. ..	41,678	0 2	..	..	..	110	190	
Totals (Flood Protection) ..	81,001	..	..	..	..	1,431	4,058	

### 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 15s. per acre foot with minimum annual payments for each and every holding. The minimum annual payment for any one holding in the Western Wimmera Waterworks District is either, £2 10s. 0d. per annum where the area irrigated is not greater than  $3\frac{1}{2}$  acres or, 15s. per acre per annum where the area irrigated exceeds  $3\frac{1}{2}$  acres. In the Wimmera United Waterworks District the minimum annual payment for any one holding is 15s. per acre per annum for the area irrigated.

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. 4138 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.
	<i>s. d.</i>	<i>s. d.</i>
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 and Grazing Fees, &c.	Recoup on Account of Payments from Revenue.	Interest on Lands Sold, Plant and Machinery Account.	Total.
	£	£	£	£
1947-48.. ..	826,088	224,440	13,105	1,063,633
1948-49.. ..	902,156	284,157	15,143	1,201,456
1949-50.. ..	1,038,695	394,866	25,374	1,458,935
Grand Totals ..	2,766,939	903,463	53,622	3,724,024

The assessment for the year 1949-50 for rates and charges was £800,038 ; additional amounts collectable for sales of water, interest on arrears, &c., but excluding recoups (£394,866) were £217,138. The actual sum collected by way of rates and charges including arrears was £1,038,695, and represents an equivalent of 102 per cent. of the new money collectable (£1,017,176).

An amount of £24,168 was written off the books of the Commission for the financial year 1949-50, as compared with £23,951 for the previous year. The total amount written off for the fourteen years ended 30th June, 1950, under the various headings as shown hereunder was £644,801.

	£
<i>Farmers' Debts Adjustment Act</i> 1935 (No. 4326) .. .. .	87,078
Adjustment of arrears of rates and charges and irrecoverable amounts—Act No. 4513 ..	164,954
Remission of Interest accrued on arrears to 30th June, 1940—Act No. 4740 .. ..	81,517
Reduction in rating classifications (Waterworks Districts) and of water right—Act No. 5017 .. .. .	8,475
Unoccupied or vacated Crown lands .. .. .	191,876
Reduction in rating classifications other than applicable to Act No. 5017 .. ..	12,799
Concessions granted to water-users .. .. .	45,166
<i>North-West Mallee Settlement Areas Act</i> 1948, No. 5321 .. .. .	8,260
Miscellaneous, including remission of interest accrued on Consolidated Arrears (Act No. 4740) subsequent to 30th June, 1940 .. .. .	44,676
	<u>644,801</u>

Subject to the provisions of the Water Act No. 4740, arrears of rates and charges totalling £437,635, as at 30th June, 1940, were consolidated, and are payable by instalments over periods up to twenty years from and inclusive of 1st January, 1941. The balance of instalments remaining as at 30th June, 1950, was £77,794. These consolidated arrears are not subject to interest conditionally upon the instalment being paid on the due date each year ; however, interest accrued to 30th June, 1950, through default in payment of instalments, amounted to £6,045.

The arrears of rates and charges were reduced from £272,056 as at 1st July, 1949, to £226,190 as at 30th June, 1950—this figure includes the balance £77,794 plus accrued interest, of arrears consolidated under Act No. 4740, mentioned in the preceding paragraph.

**EXPENDITURE.**

The expenditure for the year on maintenance, water distribution, and management, and the comparative figures for 1948-49 are set out hereunder :—

	1949-50.	1948-49.
	£	£
From Annual Vote Appropriation .. .. .	1,494,531	1,291,766
From Annual Vote Appropriation (Exceptional) .. .. .	*22,656	26,799
From Surplus Revenue, Act No. 4968 .. .. .	2,471	726
	<u>1,519,658</u>	<u>1,319,291</u>

\* Includes £8,238 assistance to Sewerage Authorities where works are suspended; £13,832 subsidies to Sewerage Authorities in cases where the interest paid on Capital Liability is in excess of 3 per cent.; subsidies to local water authorities to offset losses in reduction of rates (£586).

Total expenditure on works carried out or supervised by the Commission for the year 1949-50 was as set out hereunder :—

	£	£
Vote Funds .. .. .	1,517,187	
Special Appropriation .. .. .	5,650	
Surplus Revenue, Act No. 4968 .. .. .	2,471	
	<u>1,525,308</u>	
Ordinary Loan Funds—		
Commission Works .. .. .	3,539,570	
Waterworks Trusts and Local Governing Bodies .. .. .	609,931	
	<u>4,149,501</u>	
Water Supply Works Depreciation Fund .. .. .		25,775
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. .. .. .		<u>5,700,584</u>

Expenditure on Capital construction works was provided from :—

Water Supply Loans Application Act No. 5334 .. .. .	949,471
Water Supply Loans Application Act No. 5418 .. .. .	3,060,030
Treasurer's Advance .. .. .	140,000
	<u>4,149,501</u>

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 .. .. . 275,913

The total increase in Loan Liability for the year was therefore .. .. . 4,425,414

The contribution by the Government of Victoria to the River Murray Commission for the maintenance of works under the River Murray Agreement was £23,400 (included in the expenditure from Annual Vote Appropriation as shown above). The actual expenditure by this Commission on the maintenance of these works was £14,243, and on construction of new works £1,707.

**CAPITAL LIABILITY.**

The Capital Loan Liability of the State for Works of Country Water Supply at 30th June, 1950, was £39,033,778, of which amount £34,244,144 is charged to the "Capital Expenditure borne by the State Account." Of the remainder £2,470,166 is charged to Waterworks Trusts and Local Governing Bodies, £1,168,242 is debited to the Plant and Machinery Account, and the balance £1,151,226, represents the Capital Liability, after adjustment, debited to Districts and Divisions directly under the control of the Commission and to Plant workshops. These figures are exclusive of an equity of £4,055,383 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 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 1948-49, £3 6s. 11d. and for 1949-50, £3 6s. 2d.

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

	£	s.	d.
Interest .. .. .	1,281,860	9	7
Exchange on overseas interest .. .. .	105,464	4	1
Loan Conversion expenses .. .. .	3,910	19	11
	1,391,235	13	7

The amount paid by the Treasury in respect of exchange on overseas interest and loan conversion expenses has not been debited direct to water-users.

The following statement shows the approximate interest payment for 1949-50 in relation to the Capital Liability.

Capital Debited to—	Capital Liability as at 30th June, 1950.	Interest Liability (excluding Exchange and Loan Conversion Expenses).	Interest Paid by Water Users.
	£	£	£
Districts and Divisions under the direct control of the Commission .. .. .	1,151,226	38,117	25,994
Waterworks Trusts and Local Governing Bodies ..	2,470,166	82,749	81,752
Plant and Machinery Account .. .. .	1,168,242	25,367	25,367
Capital Expenditure borne by the State Development Account .. .. .	34,244,144	1,135,627	..
	39,033,778	1,281,860	133,113

### ONCOST.

In order to meet the cost of Administration (as distinct from local supervision), Pay-Roll Tax, Workers' Compensation, and other overhead expenses, an oncost charge of  $8\frac{1}{3}$  per cent. is levied on the prime cost of works carried out from all funds other than Vote and is designed to cover in approximation the following items :—

#### Administration and Supervision—

	%	%
Head Office Administration .. .. .	$3\frac{1}{4}$	
Head Office Divisional Officers and Staff ..	$1\frac{3}{4}$	
	—	5
Pay-Roll Tax .. .. .		$1\frac{1}{3}$
Workers' Compensation Insurance .. .. .		1
General Expenditure—		
Printing, Stationary, Postages, Telephones, &c. ..		1
		—
		$8\frac{1}{3}$

### DEPRECIATION.

The amount at credit of the Water Supply Works Depreciation Account in the Commission's books at 1st July, 1949, was £497,479 15s. 8d. An amount of £63,641 8s. 11d. was raised during the financial year 1949-50 for purposes of depreciation. In addition, a special contribution of £2,800 was appropriated to the Account from revenue of previous years.

A further sum of £467 0s. 10d. was paid direct to the credit of the Fund, being amounts contributed by land holders and other bodies as capitalized maintenance of water supply works constructed for their respective benefits.

After crediting the Account with interest amounting to £12,396 8s. 8d. and deducting the expenditure (£25,774 13s. 9d.) from Depreciation for the year, the balance remaining in the Account as at 30th June, 1950, was £551,010 0s. 4d.

The Water Act No. 4513 provides that sums raised in respect of depreciation shall be paid into the consolidated revenue or, if the Treasurer so directs, shall to the extent that the Treasurer directs, be placed to the credit of the Water Supply Works Depreciation Fund. The Act provides further that all such moneys paid into the Consolidated Revenue shall be credited to the Water Supply Works Depreciation Account in the books of the Commission and credited with interest each year as if such sums had been placed to the credit of the Fund.

No amount was transferred to the Water Supply Works Depreciation Fund during the year 1949-50. It is desirable that regular transfers be made to the Fund to avoid fluctuations in the Commission's net revenue each year.

Details of the Water Supply Works Depreciation Account are set out on pages 100, 101, 102 of this report.

### PLANT AND MACHINERY ACCOUNT AND STORES SUSPENSE ACCOUNT.

The capital liability for large size moveable Plant and Machinery, held in the Plant and Machinery Account as at 30th June, 1950, was £1,168,241 19s. 4d.

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 £87,689.

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 £291,262 0s. 7d., as at 30th June, 1950.

The value of stores and equipment in the Water Supply Stores Suspense Account as at 30th June, 1950, was £670,920 17s. 8d. The net amount charged to the Account was £583,231 16s. 1d., and the difference (£87,689 1s. 7d.) represents the amount at credit of operating account in respect to major items of plant controlled in the Plant and Machinery Account.

The net debit for plant and material held by the Commission as at 30th June, 1950, is £2,485,579 9s. 1d., and is controlled within funds provided from the following sources :—

	£	s.	d.	£	s.	d.
Water Supply Stores Suspense Account (Act No. 5253) .. ..	..	..	..	583,231	16	1
Water Supply Loans Application Acts—						
Rocklands Reservoir (Suspense Account) .. ..	312,503	0	0			
Glenelg River Works (Suspense Account) .. ..	21,340	4	9			
Big Eildon Dam (Suspense Account) .. ..	12,068	19	4			
Cairn Curran Reservoir (Suspense Account) .. ..	122,192	10	9			
Central Gippsland Irrigation Project (Suspense Account) ..	99,392	12	3			
Robinvale Irrigation District (Suspense Account) ..	39,384	3	5			
Murray Valley Irrigation District (Suspense Account) ..	63,180	18	4			
Goulburn-Waranga Channel Duplication (Suspense Account)	16,192	11	3			
Tarago Tunnel Project (Suspense Account) .. ..	47,850	13	7			
				734,105	13	8
Plant and Machinery Account (Act No. 4761) .. ..	..	..	..	1,168,241	19	4
				2,485,579	9	1

### REVENUE EXPENDITURE CHARGEABLE TO THE STATE ACCOUNT.

The Commission, by direction of the Governor in Council, has throughout 1949-50 continued the operation of 4 Irrigation Districts, 20 Waterworks Districts, 47 Urban Districts, and 6 Urban Divisions 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 1949-50 was £126,076, making a total of £1,910,951 borne by the State since 1st July, 1938.

In 29 of these districts an aggregate cash surplus of revenue over expenditure of £17,470 was obtained. This amount was applied to Interest (£409), Redemption (£10), and Depreciation (£9,921), leaving a sum of £7,130 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 No. 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, 1949-50.

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, has been transferred to the "Capital Expenditure borne by the State Account".

#### "PAYING" DISTRICTS.

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.

The aggregate financial transactions for the year 1949-50, however, in respect of the districts listed hereunder, resulted in an excess of expenditure over revenue to the extent of £74,107. This is due mainly to increased operating costs.

#### *Irrigation and Water Supply Districts (24).*

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

#### *Waterworks Districts (14).*

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

#### *Urban Divisions and Districts (39).*

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

#### *Drainage District (1).*

Carrum



"NON-PAYING" DISTRICTS.

(To which supplies of water are continued by direction of the Governor in Council.)

Where the revenue from existing rates and charges is insufficient to meet operating costs, the works in such centres may be maintained and the supply of water continued 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 :—

<i>Irrigation and Water Supply Districts (4).</i>			
Fish Point	*Red Cliffs—Merbein		Tresco
Nyah			
<i>Waterworks Districts (20).</i>			
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	
<i>Urban Divisions and Districts (53).</i>			
Corop	Coliban	Marong	Sea Lake
Dingee	*Crib Point	Meringur	Speed
Heyfield	*Dooen	Mitiamo	Tempy
Leitchville	*Drysedale	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	Portarlinton	*Wycheproof
Chillingollah	Manangtang	*Quambatook	Yaapeet
Chinkapook			

In districts marked "\*" the operations for 1949-50 resulted in an aggregate cash surplus of £17,470. Of this amount, a sum of £10,340 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 1949-50 by direction of the Governor in Council, in which the Revenue was insufficient to meet operating costs, was	£	
.. .. .		126,076

NATIONAL SERVICES.

Included in the heading of "National Services" are such items as River Gaugings and Inspections, Contributions 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 1949-50, and paid from the Commission's Vote Appropriation, was	£	
.. .. .		448,036

From this amount may be deducted miscellaneous revenue collected in respect to diversion permits, rents, recoup payments, &c.	£	
.. .. .		447,253

Net Cost to State of National Services 1949-50 (page 67)	£	
.. .. .		783

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 in the Auditor-General's Report for 1949-50 that the net cost to the State for the year in connexion with country water supply which has been met from general revenue was £1,370,333. This figure includes the cost of the service referred to earlier. 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 £193,053, before-mentioned, being the net deficiency (£118,946) 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 plus a loss of £74,107 on other Commission Districts.

A summary of the total cost (£1,370,333) to the State for the year is set out hereunder—a more detailed analysis is set out on page 67 of this Report.

	£	£
Net loss on Commission Districts .. .. .	74,107	
Net loss on "Order in Council" Districts .. .. .	118,946	
		193,053
Cost of "National Service" .. .. .	448,036	
Less Miscellaneous Revenue Collected .. .. .	447,253	
		783
Interest, Exchange, and Loan Conversion Expenses on Headworks and Capital borne by the State .. .. .	1,246,000	
Less Interest on Land sold, &c. .. .. .	7	
		1,245,993
		1,439,829
Less amount paid to Revenue in respect of Depreciation (£66,441) and Redemption (£3,055) .. .. .		69,496
		1,370,333

The net cost to the State (£1,370,333) was £27,625 more than the comparable figure for the previous year. The increased cost is accounted for by increases of £200,368 and £72,659 in Operating Expenses and Interest charges respectively whilst Receipts increased by £247,248 due to revision of Irrigation Charges and higher valuations of rated properties—the balance being accounted for by miscellaneous adjustments.

Provision exists for the transfer of Capital from the "Capital Expenditure borne by the State Account" to the direct liability of water-users as the respective districts develop. However, as on the present basis of rates and charges and increasing operating costs, the revenue from water users is insufficient to meet the full cost of maintenance and management, it has not been possible to make any transfer of capital during the year under review.

Major water supply projects in hand will also involve a large expenditure of capital funds but, 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 (£1,370,333) borne by the community for the year 1949-50 is equivalent to 13s. per head of the whole population, and represents the contributions of the individual citizens towards the indirect benefits derived from the State enterprise of Country Water Supply.



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# FINANCIAL STATEMENTS

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### RESULTS OF OPERATIONS IN DISTRICTS UNDER CONTROL OF COMMISSION.

*Disbursements, 1949-50.*

	Operating Expenses.		Interest on Capital Allotted.		Depreciation Paid by Districts.				Redemption Paid by Districts.		Total Disbursements.	
					On Works.		On Buildings.					
	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.
Central Plant Workshops—Bendigo	22,860	1 6	529	1 10	970	0 0	225	0 0	..		24,584	3 4
Coliban Works .. ..	66,352	4 9	9,693	2 3	7,755	0 0	423	0 0	..		84,223	7 0
Irrigation Districts .. ..	558,100	13 10	..	..	19,818	0 0	6,616	0 0	..		584,534	13 10
Irrigation Urban Divisions .. ..	7,707	6 9	494	8 10	961	6 3	..	..	34	12 2	9,197	14 0
Waterworks Districts .. ..	310,369	4 10	7,868	1 3	11,156	0 0	2,228	0 0	464	7 0	332,085	13 1
Waterworks Urban Districts .. ..	92,875	17 4	19,532	5 4	15,556	2 8	629	0 0	2,556	3 11	131,149	9 3
Flood Protection Districts .. ..	33,092	0 6	..	..	..	..	92	0 0	..		33,184	0 6
Carrum Drainage District .. ..	4,931	9 3	..	..	..	..	12	0 0	..		4,943	9 3
	1,096,288	18 9*	38,116	19 6	56,216	8 11	10,225	0 0	3,055	3 1	1,203,902	10 3
Expenditure not chargeable to Districts—												
River Murray Commission, Re-coupable and other Items ..	423,369	14 2	..	..	..	..	..	..	..		423,369	14 2
	1,519,658	12 11	38,116	19 6	56,216	8 11	10,225	0 0	3,055	3 1†	1,627,272	4 5

\* Inclusive of Grant from Surplus Revenue, £2,471 9s. 4d.

† Exclusive of Redemption paid in respect of Plant and Machinery Account.

*Receipts, 1949-50.*

	Total Receipts.	Less Transfer to Depreciation Fund.	Total Collections Paid to Consolidated Revenue.	Excess.					
				Receipts over Disbursements.		Disbursements over Receipts.			
	£	s.	d.	£	s.	d.	£	s.	d.
Central Plant Workshops—Bendigo .. .. .	12,628	11	7	..	..	..	11,955	11	9
Colliban Works .. .. .	62,575	17	11	..	..	..	21,647	9	1
Irrigation Districts .. .. .	536,580	15	3	..	..	..	47,953	18	7
Irrigation Urban Divisions .. .. .	9,295	15	8	..	98	1 8	..	..	..
Waterworks Districts .. .. .	240,081	3	3	..	..	..	92,004	9	10
Waterworks Urban Districts .. .. .	135,659	13	9	..	4,510	4 6	..	..	..
Flood Protection Districts .. .. .	8,726	2	10	..	..	..	24,457	17	8
Carrum Drainage District .. .. .	2,829	13	3	..	..	..	2,113	16	0
	1,008,377	13	6	..	..	..	200,133	2	11
Recoups of amount paid from Revenue .. .. .	381,198	9	5	..	..	..	42,171	4	9
Diversions and Miscellaneous .. .. .	43,984	19	0	..	..	..	..	..	..
	1,433,561	1	11	..	..	..	242,304	7	8

## SUMMARY OF OPERATIONS FOR YEAR 1949-50.

<i>Receipts.</i>			COMMISSION DISTRICTS.			<i>Expenditure.</i>			(Result.)					
			£	s.	d.				£	s.	d.	£	s.	d.
Rates and Charges .. .. .			1,008,377	13	6	Vote Funds .. .. .			1,093,817	9	5			
less Depreciation Transfer .. .. .						Surplus Revenue .. .. .			2,471	9	4			
			1,008,377	13	6				1,096,288	18	9			
Surplus Revenue .. .. .			2,471	9	4	Interest charged on Capital borne by Districts .. .. .			38,116	19	6	Dr.	123,556	15 5
Deficiency .. .. .			123,556	15	5									
			1,134,405	18	3				1,134,405	18	3			
						OTHER WORKS AND SERVICES.								
						<i>Diversions, Grazing Rentals, &amp;c.</i>								
Permits and Licence Fees and Charges, Grazing Rentals, &c. .. .. .			43,984	19	0	Surplus .. .. .			43,984	19	0	Cr.	43,984	19 0
			43,984	19	0				43,984	19	0			
						<i>Construction Administration and Works for Other Authorities, and Water Users.</i>								
On-cost received .. .. .			212,035	4	10	Administration .. .. .			154,355	5	4			
Recoups of Expenditure .. .. .			168,913	4	7	Expenditure Recoupable .. .. .			175,534	2	11			
						Surplus .. .. .			51,059	1	2	Cr.	51,059	1 2
			380,948	9	5				380,948	9	5			
						<i>River Murray, Sewerage, and Miscellaneous National Services.</i>								
Recoup of Expenditure .. .. .			250	0	0	Commissioners' Salaries .. .. .			5,650	0	0			
Grants to Sewerage Authorities .. .. .			22,069	16	5	River Murray, Sewerage, and Trusts .. .. .			46,055	13	5			
						Miscellaneous National Services .. .. .			47,424	12	6			
						Pensions and Gratuities .. .. .			19,016	19	5	Dr.	95,827	8 11
Deficiency .. .. .			95,827	8	11									
			118,147	5	4				118,147	5	4			
						Net Cost to the State for Works and Services of a National Character .. .. .						Dr.	783	8 9
						<i>Capital Charges.</i>								
Interest Paid by Trusts .. .. .			81,751	12	5	Interest, Exchange, and Loan .. .. .								
" from Plant Hire, &c. .. .. .			25,374	0	1	Conversion Expenses .. .. .			1,391,235	13	7			
" charged to Commission Districts .. .. .			38,116	19	6							Dr.	1,245,993	1 7
Deficiency .. .. .			1,245,993	1	7									
			1,391,235	13	7				1,391,235	13	7			
						Total Expenditure Borne by the State .. .. .								

# ANALYSIS OF EXPENDITURE BORNE BY THE STATE, 1949-50.

	£	s.	d.	£	s.	d.
<b>Services of a National Character—</b>						
River Murray Commission's Contributions by State of Victoria in accordance with the provisions of the River Murray Waters Acts .. .. .	..	..	..	23,400	0	0
<b>Assistance to Sewerage Authorities—</b>						
Where suspension of Works is being continued .. .. .	8,238	6	3			
In cases where the Interest paid on Capital Liability is in excess of the rate 3 per cent. ..	13,831	10	2			
				22,069	16	5
Subsidies to Waterworks Trusts and Local Governing Bodies to enable a reduction of 33½ per cent. to be made in Water Rates .. .. .	..	..	..	585	17	0
<b>Miscellaneous Services—</b>						
Administration Waterworks Trusts and Sewerage Authorities, &c. .. .. .	4,700	17	11			
Administration Farm Water Supplies (Act No. 5020) .. .. .	3,316	8	6			
Irrigation Branch .. .. .	3,299	9	0			
Maintenance of suspended Works .. .. .	483	8	10			
Travelling, Minister and Commissioners .. .. .	2,329	16	8			
Minister's staff, salaries and Pay Roll Tax, Commissioners' Cost of Living Allowances and Pay Roll Tax .. .. .	1,658	18	0			
Free Water for Research, Free Places Melbourne University, Library, Publicity, &c. ..	13,523	10	5			
Rivers and Reclamation Division, River Gaugings, Diversions, Land Leasing, Surveys and Reports, Underground Water and Mining Investigations, Hydraulic Research .. .. .	18,112	3	2			
				47,424	12	6
Administration in respect to Expenditure from other Funds and Works carried out for other Authorities (including Salaries, Pay Roll Tax, &c.) .. .. .	..	..	..	154,355	5	4
Works carried out for Other Authorities and Water Users, and Salaries charged to construction Projects, Recoupable .. .. .	..	..	..	175,534	2	11
TOTAL (from Vote Funds) .. .. .	..	..	..	423,369	14	2
Commissioner's Salaries (Special appropriation) .. .. .	..	..	..	5,650	0	0
TOTAL Expenditure on Services of a National Character .. .. .	..	..	..	429,019	14	2
Amount debited by Treasury for Pensions and Gratuities .. .. .	..	..	..	19,016	19	5
				448,036	13	7
<b>Less Revenue received from Headworks, Diversion Permits, &amp;c., £43,984 19s. 0d.; On cost of Expenditure from Other Funds, £212,035 4s. 10d.; Recoups, £168,913 4s. 7d. ..</b>						
.. Special Recoup, Commissioner's Salaries .. .. .	424,933	8	5			
.. Grants by State, Assistance to Sewerage Authorities .. .. .	250	0	0			
	22,069	16	5			
				447,253	4	10
Net cost to the State for Services of a National Character .. .. .	..	..	..	783	8	9
<b>Interest on Capital Expenditure on Free Headworks and other Capital Expenditure borne by the State .. .. .</b>						
Exchange on Overseas Interest Payments .. .. .	1,135,627	6	10			
Loan Conversion Expenses .. .. .	105,464	4	1			
Arrears of Interest owing by Waterworks Trusts and Other Corporations, 1948-49 .. .. .	3,910	19	11			
	997	12	4			
	1,246,000	3	2			
Less Interest on Lands Sold, &c. .. .. .	7	1	7			
				1,245,993	1	7
<b>Commission Districts—</b>						
Districts, the Capital Liability of which have been adjusted under Acts Nos. 4513 and 5017—	£	s.	d.			
Excess Expenditure over Revenue, after allowing for Depreciation, £32,659 16s. 7d., and Redemption, £3,045 2s. 2d. .. .. .	46,279	0	5			
Current Interest—						
Paid .. .. .	25,585	2	10			
Forward Unpaid .. .. .	2,243	0	9			
	27,828	3	7			
	74,107	4	0			
Districts supplied by direction of Governor in Council, but which show excess Revenue over Operating Costs after allowing for Depreciation, £9,920 8s. 6d., and Redemption, £10 0s. 11d.—						
Surplus .. .. .	7,539	6	10			
Less Current Interest Paid .. .. .	409	2	7			
	Cr. 7,130	4	3			
	Dr. 66,976	19	9			
Excess Expenditure in Districts supplied by direction of Governor in Council and showing excess Expenditure over Revenue inclusive of Interest, £9,879 13s. 4d., and Depreciation, £23,861 3s. 10d. .. .. .	126,076	7	8			
	193,053	7	5			
Add amounts transferred to Water Supply Works Depreciation Fund in Treasury on Account of moneys paid to Revenue and interest credited to Depreciation Account .. .. .	..	..	..	193,053	7	5
Deduct amounts paid to Revenue in respect of Depreciation on Works and Buildings, £66,441 8s. 11d. and Redemption, £3,055 3s. 1d. .. .. .	69,496	12	0			
				123,556	15	5
Net Expenditure borne by the State .. .. .	..	..	..	1,370,333	5	9

# SUMMARY OF CAPITAL EXPENDITURE, LOAN LIABILITY, INTEREST and EXCHANGE.

## CAPITAL EXPENDITURE 1949-50.

Expenditure during the year on Capital Works of Water Supply—	£	s.	d.	£	s.	d.	£	s.	d.
Ordinary Loan Funds (Details, pages 104, 105, 106) .. ..	..	..	..	..	..	..	4,149,500	16	4

## LOAN CAPITAL LIABILITY.

Net Loan Liability of State for Works of Country Water Supply at 30th June, 1950 .. ..	..	..	..	..	..	..	34,913,269	4	5
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Represented by—

Works at Debit of Authorities—

Commission Districts .. ..	..	..	..	1,133,227	8	3			
Water Supply Plant and Machinery Account .. ..	..	..	..	1,168,241	19	4			
Plant Workshops .. ..	..	..	..	17,998	2	7			
Waterworks Trusts and Local Governing Bodies .. ..	..	..	..	2,470,166	3	8			
							4,789,633	13	10

Capital Expenditure Borne by the State—

Headworks not apportionable to Districts .. ..	..	..	..	1,242,268	10	8			
Capital Works and Charges not apportionable to Districts .. ..	..	..	..	3,106,739	16	6			
Headworks and Distributory Works .. ..	..	..	..	27,601,359	0	6			
Waterworks Trusts and Local Governing Bodies .. ..	..	..	..	2,151,420	15	2			
Free Grants to Local Authorities in early years .. ..	..	..	..	142,356	4	11			
							34,244,144	7	9

Net Loan Capital Liability of Commission's Districts, Divisions, and Works under Control of the Commission .. ..

39,033,778 1 7

Less Expenditure from Treasurer's Advance £140,000 and Public Account £460,931 9s. 5d. ..

600,931 9 5

38,432,846 12 2

Less Amount from National Debt Sinking Fund, being the difference between redemption recoup contributions paid by Districts, Waterworks Trusts, &c. (£523,296 12s. 7d.) and the amount (£4,055,382 17s. 2d.) contributed from Consolidated Revenue to the National Debt Sinking Fund (page 115) .. ..

3,532,086 4 7

34,900,760 7 7

Add Cash on Hand at Treasury .. ..

12,508 16 10

Net Liability Country Water Supply Capital Account in Treasury .. ..

34,913,269 4 5

## INTEREST AND EXCHANGE.

The Total Interest on the Loan Liability for 1949-50 is .. ..	..	..	..	..	..	..	1,281,860	9	7
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To which is to be added—

Exchange payable on Overseas Interest .. ..	..	..	..	..	..	..	105,464	4	1
Loan Conversion Expenses .. ..	..	..	..	..	..	..	3,910	19	11
							1,391,235	13	7

Interest Debitable to—

Works at Debit of Authorities—

Commission Districts .. ..	..	..	..	..	..	..	38,116	19	6
Trusts .. ..	..	..	..	..	..	..	82,749	4	9
Water Supply Plant and Machinery Account .. ..	..	..	..	..	..	..	25,366	18	6
							146,233	2	9

Capital Expenditure Borne by the State—

Headworks not apportionable to Districts .. ..	..	..	..	..	..	..	41,196	19	8
Capital Works and Charges not apportionable to Districts .. ..	..	..	..	..	..	..	103,027	16	10
Headworks and Distributory Works not debited to Districts .. ..	..	..	..	..	..	..	915,334	12	6
Waterworks Trusts and Local Governing Bodies .. ..	..	..	..	..	..	..	71,346	18	4
Free Grants to Local Authorities in early years .. ..	..	..	..	..	..	..	4,720	19	6
							1,135,627	6	10

1,281,860 9 7

Exchange, £105,464 4s. 1d. and Loan Conversion Expenses, £3,910 19s. 11d. not apportioned .. ..

109,375 4 0

1,391,235 13 7



## RECEIPTS AND DISBURSEMENTS.

STATEMENT of Moneys Received and Disbursed during the Year Ended 30th June, 1950.

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.
<b>Commission's Districts—</b>						
Central Plant Workshops, Bendigo .. ..	12,628 11 7	..	12,628 11 7	22,860 1 6	..	22,860 1 6
Coliban Works .. ..	62,575 17 11	..	62,575 17 11	66,352 4 9	..	66,352 4 9
Irrigation Districts ..	536,580 15 3	..	536,580 15 3	555,629 4 6	2,471 9 4	558,100 13 10
Irrigation Urban Divisions..	9,295 15 8	..	9,295 15 8	7,707 6 9	..	7,707 6 9
Waterworks Districts ..	240,081 3 3	..	240,081 3 3	310,369 4 10	..	310,369 4 10
Waterworks Urban Districts	135,659 13 9	..	135,659 13 9	92,875 17 4	..	92,875 17 4
Flood Protection Districts	8,726 2 10	..	8,726 2 10	33,092 0 6	..	33,092 0 6
Carrum Drainage District ..	2,829 13 3	..	2,829 13 3	4,931 9 3	..	4,931 9 3
	1,008,377 13 6	..	1,008,377 13 6	1,093,817 9 5	2,471 9 4	1,096,288 18 9
<b>Other works and services, (not directly apportionable to Districts)—</b>						
Diversions ;—						
Rivers and Streams ..	12,331 4 3	..	12,331 4 3	..	..	..
Headworks .. ..	4,813 11 7	..	4,813 11 7	..	..	..
Miscellaneous, Grazing Rentals, &c. .. ..	26,840 3 2	..	26,840 3 2	..	..	..
	43,984 19 0	..	43,984 19 0	..	..	..
River Murray Commission ..	..	..	..	23,400 0 0	..	23,400 0 0
Assistance to Sewerage Authorities .. ..	..	..	..	22,069 16 5	..	22,069 16 5
Assistance to Waterworks Trusts .. ..	..	..	..	585 17 0	..	585 17 0
Miscellaneous National Services .. ..	..	..	..	47,424 12 6	..	47,424 12 6
Expenditure Recoupable ..	168,913 4 7	..	168,913 4 7	175,534 2 11	..	175,534 2 11
Administration in respect of Expenditure from other funds (including Salaries, Pay Roll Tax, &c.) ..	212,035 4 10	..	212,035 4 10	154,355 5 4	..	154,355 5 4
	380,948 9 5	..	380,948 9 5	423,369 14 2	..	423,369 14 2
<b>Total—Other Works and Services .. ..</b>	<b>424,933 8 5</b>	<b>..</b>	<b>424,933 8 5</b>	<b>423,369 14 2</b>	<b>..</b>	<b>423,369 14 2</b>
<b>Total—Vote and Surplus Revenue .. ..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>1,517,187 3 7</b>	<b>2,471 9 4</b>	<b>1,519,658 12 11</b>
Commissioner's Salaries (Special Appropriation) ..	250 0 0	..	250 0 0	5,650 0 0	..	5,650 0 0
<b>Grand Totals ..</b>	<b>1,433,561 1 11</b>	<b>..</b>	<b>1,433,561 1 11</b>	<b>1,522,837 3 7</b>	<b>2,471 9 4</b>	<b>1,525,308 12 11</b>
Total Disbursements from Votes Surplus Revenue and special Appropriation ..	..	..	..	..	1,433,561 1 11	1,525,308 12 11
Net Receipts paid to Consolidated Revenue .. ..	..	..	..	..	..	..
Grants from Revenue—						
To Assist Sewerage Authorities .. ..	..	..	..	22,069 16 5	..	..
Surplus Revenue .. ..	..	..	..	2,471 9 4	24,541 5 9	1,458,102 7 8
Deficiency from Commission's Operations .. ..	..	..	..	..	..	67,206 5 3
Amount not included in above Statement—						
Debits by Treasury for Pensions and Gratuities .. ..	..	..	..	..	19,016 19 5	..
Interest Paid ;—By Waterworks Trusts and Local Governing Bodies, £81,751 12s. 5d. ; Plant and Machinery Account, &c., £25,366 18s. 6d. ;	..	..	..	..	..	..
On Land Sold, 15s. 5d. ; By Shepparton Drainage, £6 6s. 2d. ..	..	..	..	..	Cr.107,125 12 6	Cr. 88,108 13 1
Surplus credited to State exclusive of Interest, Exchange, and Loan Conversion Expenses .. ..	..	..	..	..	..	Cr. 20,902 7 10
Interest, Exchange, and Loan Conversion Expenses .. ..	..	..	..	..	..	1,391,235 13 7
Total amount borne by the State .. ..	..	..	..	..	..	1,370,333 5 9

CENTRAL PLANT WORKSHOPS—BENDIGO.  
CASH ACCOUNT.

District.	Receipts.		Expenditure.						Accumulated—				
	Year ended 30th June, 1950.		Total to 30th June, 1950.						Excess Receipts over Expenditure 1949-50.	Excess Expenditure over Receipts 1949-50.	Surplus Credited to District Account at 30th June, 1950.	Deficiency Chargeable to District Account at 30th June, 1950.	Deficiency Chargeable to State Account at 30th June, 1950 (Inclusive of Column 11).
	Operating Costs.	Interest.	Redemption.	Depreciation.	Total.	10.	11.	12.					
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.
	£ 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.
Workshops ..	12,145 7 1	13,487 7 9	22,590 1 6	529 1 10	..	970 0 0	24,089 4	46,281 11 2	..	11,943 16 3	..	32,794 3 5	..
2. Residences (9)	483 4 6	840 5 6	270 0 0	..	..	225 0 0	495 0 0	795 0 0	..	11 15 6	45 5 6	..	..
Totals	12,628 11 7	14,327 13 3	22,860 1 6	529 1 10	..	1,195 0 0	24,584 3 4	47,076 11 2	..	11,955 11 9	45 5 6	32,794 3 5	..

COLIBAN SYSTEM.

CASH ACCOUNT.

STATEMENTS of Moneys received and disbursed from 1st July, 1905, to 30th June, 1950; also of Interest charged at the rates of 3·3068 per cent. on Capital Debits as at 30th June, 1943, and 3 per cent. on Capital Debits subsequent to 30th June, 1943, and of Depreciation and Redemption charged for Financial Year 1949-50.

District.	Receipts.		Expenditure.							Accumulated—			
	Receipts year ended 30th June, 1950.	Total 1905 to 30th June, 1950.	Year ended 30th June, 1950.					Total 1905 to 30th June, 1950.	Excess Receipts Expenditure, 1949-50.	Excess Expenditure over Receipts, 1949-50.	Surplus Credited to District Account at 30th June, 1950.	Deficiency Chargeable to District Account at 30th June, 1950.	Deficiency Chargeable to State Account at 30th June, 1950 (inclusive of Column 11).
			Operating Costs.	Interest.	Depreciation.	Redemption.	Total.						
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.
	£ 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	2,130 9 5	55,672 6 3	2,426 6 10	..	42 0 0	..	2,468 6 10	56,721 13 2	..	337 17 5	..	1,049 7 2	..
Totals	2,130 9 5	55,672 6 3	2,426 6 10	..	42 0 0	..	2,468 6 10	56,721 13 2	..	337 17 5	..	1,049 7 2	..

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, under the provisions of Section 6, *Water Act* 1937, No. 4513.)

2. Axe Creek ..	421 7 1	12,324 12 5	436 3 6	..	3 0 0	..	439 3 6	13,586 15 7	..	17 16 5	..	983 8 1	278 15 1
3. Coliban ..	59,810 7 6	1,915,103 16 0	63,150 12 9	9,692 7 5	8,093 0 0	..	80,936 0 2	2,861,809 5 10	..	21,125 12 8	..	13,729 8 9	932,976 1 1
4. Marong ..	213 13 11	3,508 9 6	339 1 8	14 10	40 0 0	..	379 16 6	4,123 6 6	..	166 2 7	..	210 8 10	404 8 2
Totals	60,445 8 6	1,930,936 17 11	63,925 17 11	9,693 2 3	8,136 0 0	..	81,755 0 2	2,879,519 7 11	..	21,309 11 8	..	14,923 5 8	933,659 4 4
Grand Totals ..	62,575 17 11	1,986,609 3 11	66,352 4 9	9,693 2 3	8,178 0 0	..	84,223 7 0	2,936,241 1 1	..	21,647 9 1	..	15,972 12 10	933,659 4 4

CENTRAL PLANT WORKSHOPS, BENDIGO.

PROFIT AND LOSS ACCOUNT FOR FINANCIAL YEAR 1949-50.

	Expenditure.				Profit and Loss.			
	(A) Value of Work Completed or In Progress. (B) House Rents.	Operating Costs.	Interest.	Depreciation.	Redemption.	Total.	Earnings in Excess of Expenditure.	Loss as at 30th June, 1950.
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
1. Workshops ..	(A)14,191 10 0	22,590 1 6	529 1 10	970 0 0	44 1 10	24,133 5 2	9,941 15 2	17,129 19 10
2. Residences (9) ..	(B) 483 4 6	270 0 0	..	225 0 0	..	495 0 0	11 15 6	..
Totals ..	14,674 14 6	22,860 1 6	529 1 10	1,195 0 0	44 1 10	24,628 5 2	9,953 10 8	17,129 19 10
								45 5 6
								45 5 6

COLIBAN SYSTEM.

PROFIT AND LOSS ACCOUNT FOR FINANCIAL YEAR 1949-50

STATEMENT of Revenue Assessment (inclusive of Rates, 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 Assessment over Expenditure.	Excess Expenditure over Assessment.	Revenue Due for Previous Years Written Off.	Adjustments to Revenue for Years prior to 1949-50. (A) Loss. (B) Gain.	Interest and Other Losses prior to 30th June, 1938, Borne by State (Act No. 5017).	Loss since 30th June, 1938.	Gain as at 30th June, 1950.
1. Harcourt ..	£ 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.
	2,107 3 3	2,426 6 10	..	42 0 0	..	..	2,468 6 10	..	361 3 7	..	..	..	1,049 0 11	..
Total ..	2,107 3 3	2,426 6 10	..	42 0 0	..	..	2,468 6 10	..	361 3 7	..	..	..	1,049 0 11	..

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 26th February, 1946, respectively, under the provisions of Section 6, *Water Act* 1937, No. 4513.)

2. Axe Creek ..	436 5 8	436 3 6	..	3 0 0	..	..	439 3 6	..	2 17 10	..	..	..	1,217 5 10	..
3. Coliban ..	60,357 7 6	63,150 12 9	9,692 7 5	8,093 0 0	733 0 0	45 0 0	81,714 0 2	..	21,356 12 8	287 11 7	(B) 5 4 6	828,373 18 10	121,555 0 7	..
4. Marong ..	220 14 10	339 1 8	0 14 10	40 0 0	0 1 10	1 15 0	381 13 4	..	160 18 6	20 9 10	..	..	572 15 6	..
Totals ..	61,014 8 0	63,925 17 11	9,693 2 3	8,136 0 0	733 1 10	46 15 0	82,534 17 0	..	21,520 9 0	308 1 5	(B) 5 4 6	828,373 18 10	123,345 1 11	..
Grand Totals ..	63,121 11 3	66,352 4 9	9,693 2 3	8,178 0 0	733 1 10	46 15 0	85,003 3 10	..	21,881 12 7	308 1 5	(B) 5 4 6	828,373 18 10	124,394 2 10	..

## IRRIGATION AND WATER SUPPLY DISTRICTS.

## CASH ACCOUNT.

STATEMENT of Moneys received and disbursed from 1st May, 1906, to 30th June, 1950; also of Depreciation charged for Financial Year 1949-50. (Free Headworks excluded).

District.	Receipts.			Expenditure.				Excess Receipts over Expenditure, 1949-50.	Excess Expenditure over Receipts, 1949-50.	Accumulated.		
	Receipts Year ended 30th June, 1950.		Total 1906 to 30th June, 1950.	Year ended 30th June, 1950.		Total.	Total 1906 to 30th June, 1950.			Surplus credited to District Account at 30th June, 1950.	Deficiency chargeable to District Account at 30th June, 1950.	Deficiency chargeable to State Account. (Inclusive of column 9).
	2.	3.		4.	5.							
1.	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.
1. Bacchus Marsh	6,430	13 1	200,384	18 6	7,708	9 4	235,761	1 8	1,446	16 3	14,195	14 11
2. Boort	8,640	18 3	187,691	2 6	15,276	1 5	219,478	2 11	6,785	3 2	30,166	5 2
3. Calvill	5,789	6 9	81,051	10 0	4,632	12 1	87,354	10 7	13,632	8 7	19,985	9 2
4. Campespe	869	2 11	33,793	13 4	966	0 7	35,333	13 3	2,155	6 11	3,695	6 10
5. Cohuna	32,846	13 5	760,282	0 4	33,469	2 1	756,395	6 2	19,031	15 0	15,145	0 10
6. Deakin	6,978	3 6	207,114	18 11	8,042	5 11	205,457	2 9	1,092	8 8	2,255	4 9
7. Dingee	3,392	0 7	69,787	16 9	2,872	5 5	71,123	1 2	1,138	2 5	4,766	11 5
8. Katandra	5,642	6 6	67,372	7 0	4,793	12 0	90,119	8 7	3,431	7 0	27,858	0 1
9. Kerang	13,928	0 11	308,526	7 4	16,087	12 4	309,773	8 5	5,110	18 6	3,766	6 2
10. Kooradbrook	15,962	16 8	391,279	13 1	17,417	4 0	450,778	10 2	2,519	5 1	7,107	7 5
11. Maffra-Sale	27,046	10 11	364,470	13 3	28,560	18 6	376,359	18 10	1,734	7 4	8,176	4 2
12. Murray Valley	27,287	17 11	149,206	1 5	24,655	13 8	132,198	5 8	1,999	7 7	3,713	1 5
13. Mystic Park	1,582	10 10	31,426	11 8	2,601	10 11	44,859	19 1	17,007	15 9	..	..
14. North Shepparton	11,024	1 6	156,871	0 7	13,406	7 3	196,125	17 7	1,038	0 1	11,320	10 9
15. Robinvale	7,478	4 5	12,349	4 11	19	0 0	2,620	10 11	2,544	5 9	..	..
16. Rochester	45,361	3 3	812,332	10 10	162	0 0	13,568	7 3	10,212	7 7	3,505	5 0
17. Rodney	50,164	8 5	1,146,866	11 4	3,923	0 0	17,690	12 0	..	..	19,455	19 11
18. Shepparton	18,494	5 3	318,037	5 10	13,767	12 0	324,945	5 4	7,584	14 5	22,550	2 0
19. South Shepparton	3,030	10 9	61,534	11 10	37,160	8 10	824,945	5 4	137	7 5	..	..
20. Swan Hill	17,677	10 6	365,175	14 11	50,027	1 0	1,249,021	14 11	1,139	1 2	15,995	8 0
21. Third Lake	1,461	4 3	26,284	12 3	17,355	4 1	67,895	3 3	..	..	11,432	3 10
22. Tongala-Stanhope	37,281	8 10	587,171	11 3	4,800	14 4	406,870	15 11	1,770	3 7	3,624	14 8
23. Tragowel Plains	23,542	17 3	551,064	12 1	23,372	14 2	30,250	7 7	5,494	3 8	35,458	10 6
24. Werribee	10,755	12 7	236,435	13 5	32	0 0	684,917	17 0	..	..	1,526	13 2
Totals	382,668	9 3	7,126,511	3 4	502	0 0	34,009	18 8	..	..	24,123	7 7
					500	0 0	617,666	13 10	5,272	2 9	23,761	15 1
					358	0 0	10,568	17 5	186	15 2	9,504	15 9
					10,567	0 0	408,901	16 5	16,734	10 9	92,857	4 9
							7,776,279	10 4	42,967	17 11	215,849	10 11
											526,776	0 10

IRRIGATION AND WATER SUPPLY DISTRICTS—continued.

CASH ACCOUNT—continued.

STATEMENT of Moneys received and disbursed from 1st May, 1906, to 30th June, 1950; also of Depreciation charged for Financial Year 1949-50 (Free Headworks excluded)—continued.

District.	Receipts.			Expenditure.					Accumulated.			
	Receipts Year ended 30th June, 1950.		Total 1906 to 30th June, 1950.	Year ended 30th June, 1950.			Total 1906 to 30th June, 1950.	Excess Receipts over Expenditure, 1949-50.	Excess Expenditure over Receipts, 1949-50.	Surplus credited to District Account at 30th June, 1950.	Deficiency chargeable to District Account at 30th June, 1950.	Deficiency chargeable to State Account, 30th June, 1950. (Inclusive of column 9.)
	2.	3.		Operating Costs.	Depreciation.	Total.						
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.
25. Fish Point .. .. .	924 15 11	19,279 15 9	3,116 7 8	23 0 0	3,139 7 8	28,796 19 11	..	2,214 11 9	..	654 5 10	8,862 18 4	..
26. Nyah .. .. .	11,257 1 10	274,721 11 6	16,331 1 11	851 0 0	17,182 1 11	339,198 9 4	..	5,925 0 1	..	11,264 15 0	53,212 2 10	..
27. Red Cliffs-Merbein .. .. .	138,210 0 7	2,054,429 18 8	130,505 1 8	14,453 0 0	144,958 1 8	2,266,129 16 11	..	6,748 1 1	..	47,179 16 2	164,520 2 1	..
28. Tresco .. .. .	3,520 7 8	64,872 16 7	9,813 6 2	540 0 0	10,353 6 2	173,883 13 5	..	6,832 18 6	..	46 8 9	108,964 8 1	..
Totals .. .. .	153,912 6 0	2,413,304 2 6	159,765 17 5	15,867 0 0	175,632 17 5	2,808,008 19 7	..	21,720 11 5	..	59,145 5 9	335,559 11 4	..
Grand Totals .. .. .	536,580 15 3	9,539,815 5 10	558,100 13 10	26,434 0 0	584,534 13 10	10,584,288 9 11	16,734 10 9	64,688 9 4	92,857 4 9	274,994 16 8	862,335 12 2	..

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, 1935, and 16th November, 1942, 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 30th July, 1938, and 16th November, 1942, under the provisions of Section 6, *Water Act* 1937, No. 4513.)

IRRIGATION AND WATER SUPPLY DISTRICTS.

PROFIT AND LOSS ACCOUNT FOR FINANCIAL YEAR 1949-50.

STATEMENT of Revenue Assessment (inclusive of Rate, Charge, Water Sales, Interest, Miscellaneous and Credits for Urban Water), and Expenditure and Depreciation Charged and Amounts Written Off.

District.	Expenditure.										Profit and Loss.																					
	Revenue Assessment.				Depreciation.				Amounts Written Off.		Total.		Excess Assessment over Expenditure.		Excess Expenditure over Assessment.		Revenue Due for previous Years Written Off.		Adjustments for Years prior to 1949-50.		Interest and Other Losses Prior to 30th June, 1938 Borne by State.		Loss since 30th June, 1938.		Gain as at 30th June, 1950.							
	£	s.	d.		£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.				
1. Bacchus Marsh	6,136	16	0	7,708	9	4	169	0	0	..	7,877	9	4	1,740	13	4	12	16	9	..	..	21,170	8	3	13,553	9	4	..				
2. Boort	7,745	11	4	15,276	1	5	150	0	0	..	15,426	1	5	7,680	10	1	..	..	..	..	1,620	15	3	29,239	12	3	..					
3. Castlil	5,536	9	2	4,632	12	1	194	0	0	0 12 0	4,827	4	1	709	5	1	..	..	..	..	19,935	9	2	..	..	..	15,112	14	2			
4. Campaspe	902	5	2	3,966	0	7	20	0	0	..	986	0	7	..	..	..	..	..	..	3,695	6	10	..	..	..	2,331	1	0				
5. Cobuna	32,929	11	8	33,469	2	1	470	0	0	43 18 11	33,983	1	0	..	..	..	134	15	8	(B) 4 14 5	15,145	0	10	..	..	..	24,800	3	5			
6. Deakin	7,115	0	10	8,042	5	11	74	0	0	4 0 1	8,120	6	0	..	..	1,005	5	2	33	15	6	(A) 13 1 5	2,255	4	9	..	..	..	5,340	19	2	
7. Dingee	3,071	19	4	2,872	5	5	34	0	0	..	2,906	5	5	165	13	11	..	..	..	..	4,766	11	5	..	..	..	3,628	16	6			
8. Katandra	5,514	4	4	4,793	12	0	83	0	0	14 18 0	4,901	10	0	622	14	4	..	..	..	..	2,801	0	1	..	..	..	5,865	16	7			
9. Kerang	14,103	19	9	16,087	12	4	164	0	0	..	16,251	12	4	..	..	..	195	18	3	(B) 11 15 11	3,766	6	2	..	..	..	7,421	13	9			
10. Koorerook	16,117	8	0	17,417	4	0	280	0	0	44 16 9	17,742	9	4	..	..	2,162	12	7	..	..	52,391	9	8	2,387	5	6	..	..	..			
11. Maffra-Sale	26,973	17	0	28,560	18	6	485	0	0	124 15 3	29,173	13	9	..	..	2,196	16	9	10	12	3	0	3,713	1	5	6,005	5	0	..	..	..	
12. Murray Valley	32,091	2	0	24,655	13	8	465	0	0	4,683	9	6	2,286	18	10	..	..	..	..	(B) 3 0 0	..	..	..	..	..	..	20,590	12	2			
13. Mystic Park	1,632	6	3	2,601	10	11	19	0	0	..	2,620	10	11	..	..	988	4	8	80	2	11	..	2,112	16	8	11,115	13	4	..	..	..	
14. North Shepparton	10,867	2	11	13,406	7	3	162	0	0	10 18 0	13,579	5	3	..	..	2,712	2	4	84	13	8	..	42,760	2	0	19,232	2	5	..	..	..	
15. Robinvale	7,890	9	8	13,767	12	0	3,923	0	0	188 7 9	17,878	19	9	..	..	9,988	10	1	..	..	..	..	..	..	..	..	..	4,186	12	9		
16. Rochester	41,798	7	2	37,100	8	10	676	0	0	8 3 0	37,784	11	10	4,013	15	4	..	..	..	(B) 15 8 10	..	..	..	35,162	16	6	6,905	12	5	..	..	..
17. Rodney	48,074	9	0	49,252	1	0	775	0	0	91 10 8	50,118	11	8	1,339	1	1	2,044	2	8	13	16	9	(B) 25 16 3	86,159	15	7	9,936	5	10	..	..	..
18. Shepparton	18,700	15	2	17,171	4	1	184	0	0	6 10 0	17,361	14	1	..	..	1,636	7	6	..	..	..	..	60,912	11	9	2,735	16	9	..	..	..	
19. South Shepparton	3,168	18	10	4,751	14	4	49	0	0	4 12 0	4,805	6	4	1,339	1	1	1,636	7	6	..	..	..	6,236	10	6	30,405	11	8	..	..	..	
20. Swan Hill	18,082	5	3	22,372	14	2	799	0	0	4 16 0	23,176	10	2	..	..	5,094	4	11	..	..	..	..	2,439	2	2	1,082	8	7	..	..	..	
21. Third Lake	1,445	14	11	1,395	10	5	32	0	0	..	1,427	10	5	18	4	6	..	..	16	5	0	..	2,439	2	2	1,082	8	7	..	..	..	
22. Tongala-Stanhope	36,016	7	0	33,507	18	8	502	0	0	59 7 0	34,069	5	8	1,947	1	4	..	..	168	13	3	(B) 27 11 6	73,622	18	2	13,536	18	6	..	..	..	
23. Tragowel Plains	21,231	19	4	28,315	0	0	1,500	0	0	171 12 4	28,986	12	4	..	..	7,754	13	0	55	0	7	..	42,840	6	8	18,999	5	1	..	..	..	
24. Werribee	10,753	2	2	10,210	17	5	358	0	0	..	10,568	17	5	184	4	9	..	..	..	..	..	..	15,475	10	3	8,875	11	2	..	..	..	
Totals	377,900	2	3	398,334	16	5	10,567	0	0	5,462	7	3	414,364	3	8	47,751	0	7	815	15	5	{(A) 40 13 10 } {(B) 77 10 5 }	528,776	0	10	174,622	12	5	122,331	12	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 the districts has been transferred to the "Revenue Expenditure Chargeable to the State Account". (By authority of Orders in Council, dated 30th July, 1938, and 16th November, 1942, under the provisions of Section 6, <i>Water Act 1937</i> , No. 4513.)																																
25. Fish Point	1,094	6	1	3,116	7	8	23	0	0	..	3,139	7	8	2,045	1	7	..	..	..	..	2,479	7	4	..	..	..	6,361	16	11	..	..	..
26. Nyah	16,560	6	10	16,331	1	11	851	0	0	5 6 7	17,187	8	6	627	1	8	..	..	..	..	30,297	7	11	..	..	..	23,073	13	1	..	..	..
27. Red Cliffs-Merbein	138,180	9	8	130,505	1	8	14,453	0	0	116 16 3	145,074	17	11	..	..	6,894	8	3	66	16	0	(B) 20 10 4	47,614	2	7	152,667	14	10	..	..	..	
28. Tresco	3,904	16	5	9,813	6	2	540	0	0	..	10,853	6	2	..	..	6,448	9	9	..	..	65,026	4	5	..	..	..	43,582	15	3	..	..	..
Totals	159,739	19	0	159,765	17	5	15,867	0	0	122 2 10	175,755	0	3	..	..	16,015	1	3	66	16	0	(B) 29 7 5	145,417	2	3	225,636	0	1	..	..	..	
Grand Totals	537,640	1	3	558,100	13	10	26,434	0	0	5,584	10	1	590,119	3	11	63,766	1	10	882	11	5	{(A) 40 13 10 } {(B) 106 17 10 }	672,193	3	1	400,258	12	6	122,331	12	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 30th July, 1938, and 16th November, 1942, 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, 1950; also of Interest charged at the rates of 3·3068 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 1949-50.

Division.	Receipts.			Expenditure.							Accumulated.			
	Year ended 30th June, 1950.			Total 1906 to 30th June, 1950.	Total.	Depreciation.	Redemption.	Interest.	Operating Costs.	Excess Receipts over Expenditure 1949-50.	Excess Expenditure over Receipts 1949-50.	Surplus Credited to District Account at 30th June, 1950.	Deficiency Chargeable to District Account at 30th June, 1950.	Deficiency Chargeable to State Account at 30th June, 1950. (Inclusive of Column 11.)
	2.	3.	4.											
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.
1. Bacchus Marsh ..	3,042 16 5	67,143 12 11	1,700 19 0	332 8 2	2,185 3 10	129 0 0	25 16 8	857 12 7	857 12 7	..	3,105 7 10	..	928 14 10	..
2. Coluna ..	1,378 11 0	35,012 12 7	1,117 9 8	105 1 1	1,329 18 5	99 0 0	8 7 8	48 12 7	48 12 7	..	2,082 6 8	..	..	..
3. Lockington ..	283 1 10	7,383 18 9	118 18 5	4 0 0	184 6 3	61 0 0	0 7 10	108 15 7	108 15 7	..	637 7 10	..	..	..
4. Macorna ..	174 10 6	174 10 6	174 7 8	..	200 7 8	26 0 0	..	..	..	25 17 2	..	269 1 5	..	..
5. Red Cliffs ..	2,555 11 5	51,291 3 10	2,537 5 0	52 19 7	2,783 4 7	193 0 0	..	..	..	227 13 2	2,194 13 11	..	..	..
6. Robinvale ..	8 6 0	8 6 0	166 2 10	..	327 2 10	161 0 0	..	..	..	318 16 10	..	..	..	..
7. Tallygaroopna ..	161 16 6	161 16 6	63 16 3	..	111 2 6	47 6 3	..	50 14 0	50 14 0	..	50 14 0	..	..	..
Totals ..	7,614 13 8	161,176 1 1	5,878 18 10	494 8 10	7,121 6 1	713 6 3	34 12 2	1,065 14 9	1,065 14 9	572 7 2	8,070 10 3	587 18 3	928 14 10	..
<p>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, under the provisions of Section 6, <i>Water Act 1937</i>, No. 4513.)</p>														
8. Corop ..	15 0 11	1,066 6 2	33 4 7	..	39 4 7	6 0 0	..	..	..	..	24 3 8	..	..	88 9 9
9. Dingee ..	90 2 0	2,165 19 4	100 7 7	..	114 7 7	14 0 0	..	..	..	..	24 5 7	..	167 2 10	305 3 1
10. Heyfield ..	919 1 10	10,654 9 5	968 17 2	..	1,083 17 2	115 0 0	..	..	..	..	164 15 4	..	..	1,535 4 3
11. Leitchville ..	363 19 5	9,487 6 9	395 17 3	..	440 17 3	45 0 0	..	..	..	..	76 17 10	242 3 8	..	..
12. Murrabit ..	107 7 3	1,438 4 10	118 11 10	..	151 11 10	33 0 0	..	..	..	..	44 4 7	..	30 16 2	1,161 5 1
13. Stanhope ..	185 10 7	6,075 15 11	211 9 6	..	246 9 6	35 0 0	..	..	..	..	60 18 11	798 15 7	..	..
Totals ..	1,681 2 0	30,888 2 5	1,828 7 11	..	2,076 7 11	248 0 0	..	..	..	..	395 5 11	1,040 19 3	197 19 0	3,090 2 2
Grand Totals ..	9,295 15 8	192,064 3 6	7,707 6 9	494 8 10	9,197 14 0	961 6 3	34 12 2	1,065 14 9	1,065 14 9	967 13 1	9,111 9 6	785 17 3	4,018 17 0	..



## URBAN DIVISIONS.

## PROFIT AND LOSS ACCOUNT FOR FINANCIAL YEAR 1949-50.

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

Division.	Expenditure.							Profit and Loss.					
	Revenue Assessment.	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 Prior to 1949-50. (A) Loss. (B) Gain.	Interest and Other Losses Prior to 30th June, 1938, Borne by State. (Act No. 6017.)	Loss since 30th June, 1938.	Gain as at 30th June, 1950.
	£ 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	3,065 5 10	1,700 19 0	332 8 2	126 0 0	25 16 8	..	2,185 3 10	(Cr.) 820 2 0	4 0 9	..	928 14 10	..	3,143 17 11
2. Cohuna	1,385 11 2	1,117 9 8	105 1 1	99 0 0	8 7 8	0 10 0	1,330 8 5	(Cr.) 55 2 9	0 11 9	..	..	..	2,368 12 0
3. Lockington	277 7 3	118 18 5	4 0 0	61 0 0	0 7 10	..	184 6 3	(Cr.) 93 1 0	..	(B) 0 2 0	..	..	715 13 10
4. Macorna	168 9 7	174 7 8	..	26 0 0	..	..	200 7 8	(Dr.) 31 18 1	..	..	..	246 5 4	..
5. Red Cliffs	2,491 9 0	2,537 5 0	52 19 7	193 0 0	4 13 2	7 3 0	2,795 0 9	(Dr.) 303 11 9	..	..	..	..	2,508 1 9
6. Robinvale	37 10 0	166 2 10	..	161 0 0	..	..	327 2 10	(Dr.) 289 12 10	..	..	..	289 12 10	..
7. Tallygaroopna	162 6 6	63 16 3	..	47 6 3	..	0 10 0	111 12 6	(Cr.) 50 14 0	..	..	..	..	50 14 0
Totals	7,527 19 4	5,878 18 10	494 8 10	713 6 3	39 5 4	8 3 0	7,134 2 3	(Cr.) 1,018 19 9 (Dr.) 625 2 8	4 12 6	(B) 0 2 0	928 14 10	535 18 2	8,786 19 6
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, under the provisions of Section 6, <i>Water Act</i> 1937, No. 4513.)													
8. Corop	27 3 8	33 4 7	..	6 0 0	..	..	39 4 7	(Dr.) 12 0 11	..	..	62 8 1	..	0 13 10
9. Dingee	90 0 0	100 7 7	..	14 0 0	..	..	114 7 7	(Dr.) 24 7 7	..	..	93 10 6	378 5 5	..
10. Heyfield	877 13 4	968 17 2	..	115 0 0	..	..	1,083 17 2	(Dr.) 206 3 10	..	..	160 19 2	1,355 17 10	..
11. Leitchville	386 19 7	395 17 3	..	45 0 0	..	2 0 0	442 17 3	(Dr.) 55 17 8	2 10 8	(B) 1 10 0	..	..	302 4 2
12. Murrabit	99 6 9	118 11 10	..	33 0 0	..	..	151 11 10	(Dr.) 52 5 1	..	..	92 1 10	1,096 13 11	..
13. Stanhope	204 1 10	211 9 6	..	35 0 0	..	..	246 9 6	(Dr.) 42 7 8	..	..	..	..	817 3 6
Totals	1,685 5 2	1,828 7 11	..	248 0 0	..	2 0 0	2,078 7 11	(Dr.) 393 2 9	2 10 8	(B) 1 10 0	408 19 7	2,830 17 2	1,120 1 6
Grand Totals	9,213 4 6	7,707 6 9	494 8 10	961 6 3	39 5 4	10 3 0	9,212 10 2	(Cr.) 1,018 19 9 (Dr.) 1,018 5 5	7 3 2	(B) 1 12 0	1,337 14 5	3,366 15 4	9,907 1 0

# WATERWORKS DISTRICTS.

## CASH ACCOUNT.

STATEMENT of Moneys received and disbursed from 1st May, 1906, to 30th June, 1950; also of Interest charged at the rates of 3·3068 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 1949-50. (Free Headworks excluded.)

District.	Receipts.			Expenditure.							Accumulated—				
	Total to 30th June, 1950.			Year ended 30th June, 1950.							Excess Receipts over Expenditure 1949-50.	Excess Expenditure over Receipts 1949-50.	Surplus Credited to District Account at 30th June, 1950.	Deficiency Chargeable to District Account at 30th June, 1950.	Deficiency Chargeable to State Account at 30th June, 1950. (Inclusive of Column 11.)
	£	s.	d.	Operating Costs.	Interest.	Redemption.		Depreciation.	Total.						
						£	s.			d.					
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
1. Bellarine Peninsula ..	11,700 10 7	136,624 11 2	9,749 10 5	2,747 16 7	..	..	12,589 7 0	135,644 6 3	..	888 16 5	10,907 14 7	..	..	9,927 9 8	..
2. East Loddon ..	999 17 10	4,594 19 7	730 6 0	..	..	..	733 6 0	3,561 3 4	266 11 10	..	1,033 16 3	..	..	..	..
3. Loddon ..	1,124 13 3	4,373 15 8	1,004 8 0	..	..	..	1,008 8 0	6,385 16 1	116 5 3	..	..	..	2,012 0 5	..	..
4. Mornington Peninsula ..	8,227 3 0	168,155 19 11	6,402 14 0	2,131 7 1	..	..	8,771 1 1	132,305 15 2	..	543 18 1	36,927 17 0	..	..	1,077 12 3	..
5. Newshead ..	22 0 0	333 10 0	..	..	..	..	..	101 10 0	22 0 0	..	232 0 0	..	..	..	..
6. Normanville ..	4,174 2 11	28,778 15 7	2,597 6 5	..	..	..	2,650 6 5	29,429 6 5	1,523 16 6	..	..	..	..	..	..
7. Otway ..	11,866 4 8	97,276 1 2	5,299 18 0	2,988 17 7	464 7 0	..	10,780 2 7	100,441 10 10	1,086 2 1	..	..	..	..	..	..
8. Ouyen ..	12,605 1 5	121,619 5 1	26,830 15 1	..	..	..	27,122 15 1	461,768 17 4	..	..	..	..	..	..	..
9. Werribee ..	627 1 9	19,394 0 10	774 6 4	..	..	..	801 6 4	20,797 13 3	..	14,517 13 8	817 18 5	..	..	308,438 11 1	..
10. Western Wimmera ..	25,395 10 7	587,167 1 4	27,981 0 10	..	..	..	28,786 0 10	641,326 7 3	..	174 4 7	..	..	..	2,221 10 10	..
11. West Loddon ..	1,356 5 4	8,281 3 1	1,567 8 11	..	..	..	1,577 8 11	8,408 6 3	..	3,390 10 3	..	..	..	13,428 5 1	..
12. Wimmera United ..	22,481 10 6	631,530 10 2	17,668 10 6	..	..	..	20,910 10 6	626,731 1 7	1,571 0 0	221 3 7	..	..	..	..	..
13. Wychitella ..	3,900 16 3	8,006 2 6	9,300 10 6	..	..	..	9,384 10 6	19,931 16 0	..	5,483 14 3	4,799 8 7	..	..	..	..
Totals ..	104,480 18 1	1,816,135 16 1	109,906 15 0	7,868 1 3	464 7 0	6,876 0 0	128,115 3 3	2,186,883 10 0	4,585 15 8	25,220 0 10	54,718 14 10	90,372 19 10	335,093 8 11	..	..

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, under the provisions of Section 6, *Water Act* 1937, No. 4513.)

District.	Receipts.			Expenditure.					Accumulated—				
	2.	Total 1906 to 30th June, 1950.		Year ended 30th June, 1950.					10.	11.	12.	13.	14.
		£	s. d.	Operating Costs.	Interest.	Redemption.	Depreciation.	Total.					
14. Birchip ..	5,714 3 0	170,408 16 9	5,285 5 1	..	..	..	65 0 0	5,350 5 1	363 17 11	4,515 11 8	..	5,077 15 6	34,931 8 1
15. Carwarp ..	1,178 7 5	30,545 16 2	5,427 19 1	..	..	..	266 0 0	5,693 19 1	..	..	..	3,539 8 8	97,187 9 8
16. Carwarp Central ..	282 2 1	4,494 7 10	323 6 5	..	..	..	21 0 0	344 6 5	..	62 4 4	..	763 19 2	5,145 14 3
17. Coreena ..	1,687 18 4	16,005 12 8	5,603 12 10	..	..	..	148 0 0	5,751 12 10	..	4,063 14 6	..	2,922 13 10	71,620 1 10
18. Hindmarsh ..	1,035 15 2	26,466 12 9	1,236 11 10	..	..	..	152 0 0	1,388 11 10	..	352 16 8	..	..	501 16 9
19. Karkaroc ..	20,799 5 1	455,770 10 0	20,523 19 2	..	..	..	81 0 0	20,604 19 2	194 5 11	..	..	83 3 9	115,336 19 8
20. Kerang — North-West Lakes ..	236 3 11	6,433 0 10	222 9 9	..	..	..	..	227 9 9	8 14 2	..	..	..	1,340 7 2
21. Long Lake ..	17,202 14 10	344,644 8 5	20,374 1 9	..	..	..	227 0 0	20,601 1 9	..	3,398 6 11	..	29,289 10 10	93,416 14 2
22. Millewa ..	5,190 7 9	70,570 9 4	26,030 15 4	..	..	..	3,232 0 0	29,862 15 4	..	24,672 7 7	..	9,567 8 2	353,526 0 8
23. Millewa Central ..	3,514 16 5	40,125 5 7	17,442 19 2	..	..	..	1,309 0 0	18,751 19 2	..	15,237 2 9	..	5,625 2 2	219,009 5 5
24. Sea Lake ..	12,173 19 1	313,756 4 3	14,194 13 4	..	..	..	98 0 0	14,292 13 4	..	2,118 14 3	..	8,236 19 5	67,293 5 11
25. Tyntsynder ..	16,792 17 7	237,520 9 5	24,813 17 1	..	..	..	142 0 0	24,955 17 1	..	8,162 19 6	..	29,188 7 1	257,740 6 9
26. Tyntsynder ..	10,846 2 1	280,455 14 11	21,618 15 1	..	..	..	140 0 0	21,758 15 1	..	10,912 13 0	..	16,240 1 9	298,505 18 9
27. Tyntsynder West ..	6,435 1 4	73,664 1 4	9,316 5 10	..	..	..	80 0 0	9,396 5 10	..	2,961 4 6	..	10,013 19 9	180,240 8 3
28. Upper Western Wimmera ..	5,644 6 5	158,606 5 3	6,473 4 0	..	..	..	49 0 0	6,522 4 0	..	877 17 7	..	755 11 0	..
29. Upper Wimmera United ..	10,111 2 2	251,781 10 5	8,159 18 10	..	..	..	94 0 0	8,253 18 10	1,857 3 4	..	..	4,359 16 0	9,204 9 7
30. Wauprep West ..	3,965 4 6	61,996 0 9	2,607 9 1	..	..	..	279 0 0	2,886 9 1	1,078 15 5	..	..	1,293 17 7	8,197 6 11
31. Wycheproof ..	11,280 13 3	275,371 0 8	8,850 13 6	..	..	..	115 0 0	8,965 13 6	337,297 14 4	2,314 19 9	..	4,504 1 10	57,422 11 10
32. Yelka ..	1,509 4 9	15,085 11 4	1,356 12 8	..	..	..	5 0 0	1,361 12 8	147 12 1	..	..	1,488 7 10	12,113 17 3
Totals ..	135,600 5 2	2,833,701 18 8	200,462 9 10	..	..	..	6,508 0 0	206,970 9 10	5,965 8 7	77,385 13 3	..	146,129 8 10	1,822,734 2 11
Grand Totals ..	240,081 3 3	4,649,837 14 9	310,369 4 10	7,868 1 3	464 7 0	..	13,384 0 0	332,085 13 1	10,551 4 3	102,555 14 1	54,718 14 10	236,502 8 8	2,157,827 11 10



## URBAN DISTRICTS.

## CASH ACCOUNT.

STATEMENT of Moneys received and disbursed from 1st May, 1906, to 30th June, 1950; also of Interest charged at the rates of 3·3068 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 1949-50. (Free Headworks excluded.)

District.	Receipts.			Expenditure.					Total 1906 to 30th June, 1950.	Excess Receipts over Expenditure, 1949-50.	Excess Expenditure over Receipts, 1949-50.	Accumulated.		
	Year ended 30th June, 1950.			Year ended 30th June, 1950.								Surplus Credited to District Account at 30th June, 1950.	Deficiency Chargeable to District Account at 30th June, 1950.	Deficiency Chargeable to State Account at 30th June, 1950. (Inclusive of Column 11.)
	£	s. d.	£	s. d.	£	s. d.	£	s. d.						
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	
1. Allansford ..	253 19 4	1,533 9 8	205 1 11	26 13 5	..	23 0 0	254 15 4	1,457 7 4	..	0 16 0	76 2 4	..	..	
2. Antwerp ..	49 0 4	1,517 6 7	69 9 3	8 10 5	..	2 0 0	79 19 8	1,384 12 3	..	30 19 4	132 14 4	..	..	
3. Barwon Heads and Ocean Grove ..	2,955 7 11	32,646 15 7	1,986 15 0	263 1 1	20 15 8	303 0 0	2,583 11 9	30,913 7 7	371 16 2	73 17 7	1,733 8 0	..	216 18 8	
4. Berriwillcock ..	295 8 9	8,826 16 6	353 4 0	0 2 4	..	16 0 0	369 6 4	8,840 1 0	187 10 10	..	2,266 1 2	..	..	
5. Berwick ..	1,446 15 4	23,987 13 3	879 3 0	102 0 3	8 1 3	270 0 0	1,259 4 6	21,721 12 1	120 19 9	..	..	443 12 8	..	
6. Birregurra ..	725 5 8	1,266 12 0	520 5 11	..	..	84 0 0	604 5 11	1,710 4 8	..	..	..	..	..	
7. Brim ..	194 19 7	7,154 3 11	284 2 3	10 18 9	..	31 0 0	326 1 0	6,830 2 6	131 1 5	..	324 1 5	..	..	
8. Camperdown ..	7,022 2 10	58,135 19 11	3,324 19 6	1,823 18 1	979 17 2	698 0 0	6,826 14 9	58,258 14 0	195 8 1	..	..	122 14 1	..	
9. Chelsea-Frankston ..	25,488 1 5	390,498 11 11	14,500 5 5	4,428 17 9	344 12 2	3,565 0 0	22,838 15 4	380,373 3 6	2,649 6 1	92 13 0	470 13 0	..	9,188 12 3	
10. Cobden ..	1,779 14 6	16,249 11 11	1,268 8 0	426 19 6	..	177 0 0	1,872 7 6	16,720 4 11	101 7 5	..	1,447 16 0	112 6 11	538 9 1	
11. Cranbourne ..	538 6 8	14,455 19 7	312 12 6	19 13 11	1 12 10	103 0 0	436 19 3	13,546 12 8	..	112 3 8	..	..	3,601 18 7	
12. Cullgoa ..	253 7 9	9,894 10 1	273 10 1	74 1 4	..	18 0 0	365 11 5	10,006 17 0	..	..	..	..	..	
13. Dandenong-Springvale ..	21,743 12 7	331,790 1 1	12,811 11 9	5,376 0 0	416 6 2	2,416 0 0	21,019 17 11	296,788 19 7	723 14 8	355 4 4	1,412 19 8	..	..	
14. Dimboola ..	2,189 16 2	75,502 12 2	1,565 8 2	358 2 0	..	621 10 4	2,545 0 6	74,089 12 6	4,168 1 9	..	22,491 1 0	..	..	
15. Dromana-Portsea ..	12,606 3 10	87,857 11 10	6,691 4 4	141 16 8	12 1 1	1,593 0 0	8,438 2 1	65,366 10 10	12 10 11	..	932 19 9	..	..	
16. Jeparit ..	992 19 10	32,284 4 6	736 10 7	187 18 6	16 19 10	39 0 0	980 8 11	31,351 4 9	274 9 6	..	2,155 12 8	..	..	
17. Longwarry ..	1,219 4 1	13,336 14 7	497 12 5	304 7 5	23 14 9	119 0 0	944 14 7	11,181 1 11	24 2 9	..	522 9 0	..	..	
18. Marnoo ..	279 15 4	7,841 9 1	174 9 5	44 12 2	3 11 0	33 0 0	255 12 7	7,319 0 1	..	83 3 2	..	861 3 7	510 10 1	
19. Merbein ..	1,948 8 9	44,556 4 8	1,756 8 7	138 3 4	..	137 0 0	2,031 11 11	45,927 18 4	..	255 1 11	128 3 6	..	..	
20. Minyip ..	792 17 5	31,539 6 0	871 17 2	101 2 2	..	75 0 0	1,047 19 4	31,411 2 6	..	1,201 3 3	11,943 3 6	..	..	
21. Mornington ..	5,324 7 10	125,211 10 9	3,904 18 10	1,740 12 3	..	880 0 0	6,525 11 1	113,298 5 1	..	3 17 8	170 2 2	..	..	
22. Nairn ..	454 13 3	19,388 7 3	274 7 6	134 3 5	..	50 0 0	458 10 11	19,218 5 1	..	..	3,273 15 11	..	..	
23. Pakenham ..	2,024 8 5	27,824 1 7	912 10 4	319 17 6	24 19 1	239 0 0	1,494 6 11	24,550 5 8	530 1 6	1 13 3	..	..	..	
24. Pimpindo ..	8 7 0	20 12 10	10 0 3	..	..	..	10 0 3	20 11 4	..	80 6 7	1,031 13 9	..	..	
25. Pyramid Hill ..	506 18 2	14,054 19 0	505 12 4	42 12 5	..	39 0 0	587 4 9	13,023 5 3	..	..	..	7,653 7 5	..	
26. Queenscliff and Point Lonsdale ..	5,013 8 0	62,995 19 8	3,750 14 11	533 18 6	42 2 8	561 0 0	4,837 16 1	70,449 7 1	125 11 11	..	4,239 1 0	..	..	
27. Rainbow ..	1,118 18 5	39,801 9 1	637 0 7	249 13 2	39 1 0	48 0 0	973 14 9	35,562 8 1	145 3 8	..	..	35 1 7	..	
28. Rupanyup ..	1,006 18 0	28,582 0 6	627 13 6	138 14 2	59 5 5	57 0 0	882 13 1	28,617 2 1	124 4 11	..	..	..	..	
29. Somerville ..	453 0 6	9,777 15 8	248 0 5	151 18 8	..	61 0 0	460 19 1	9,050 2 6	7 18 7	..	727 13 2	..	..	
30. South Frankston ..	3,760 1 4	56,454 7 1	1,834 10 1	851 2 5	119 8 2	324 0 0	3,129 0 8	51,155 13 1	631 0 8	..	5,298 14 0	..	..	
31. Terang ..	4,752 8 6	36,477 9 3	2,150 1 5	934 17 3	433 6 9	545 0 0	4,063 5 5	36,960 10 5	689 3 1	..	483 1 2	..	..	
32. Watchem ..	358 7 0	11,822 8 6	302 15 10	4 2 10	..	35 0 0	342 6 8	12,098 4 9	16 0 4	..	..	134 19 1	140 17 2	
Totals ..	107,557 4 6	1,823,286 16 0	64,251 5 3	18,936 11 8	2,546 3 0	13,162 10 4	98,896 10 3	1,529,372 8 7	11,090 14 0	2,429 19 9	118,428 12 9	10,316 19 6	14,197 5 10	



URBAN DISTRICTS.

PROFIT AND LOSS ACCOUNT FOR FINANCIAL YEAR 1949-50.

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

District.	Revenue Assessment.			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 prior to 1949-50. (A) Loss. (B) Gain.			Interest and other Losses prior to 30th June, 1938, Borne by State. (Act No. 5017.)			Loss since 30th June, 1938.			Gain as at 30th June, 1950.					
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.		d.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.		
1. Allansford .. .. .	244	16	2	205	1	11	26	13	5	23	0	0	2	1	11	256	17	3	12	1	1	7	18	4	..	..	..	..	..	..	..	..	90	16	0	
2. Antwerp .. .. .	47	6	6	69	9	3	8	10	5	2	0	0	0	13	6	80	13	2	33	6	8	..	..	..	..	..	..	..	..	..	..	139	14	10		
3. Barwon Heads and Ocean Grove .. .. .	2,926	18	8	1,996	15	0	263	1	1	303	0	0	20	15	8	2,583	11	9	343	6	11	..	..	..	..	..	..	..	..	..	2,598	18	2			
4. Berrillock .. .. .	320	18	4	353	4	0	0	2	4	16	0	0	0	1	5	369	7	9	48	9	5	..	..	..	..	..	..	..	..	239	10	9				
5. Berwick .. .. .	1,454	4	8	879	3	0	102	0	3	270	0	0	8	1	3	1,259	4	6	195	0	2	..	..	..	..	..	..	..	..	275	2	11				
6. Birregurra .. .. .	631	1	6	520	5	11	..	..	..	84	0	0	..	..	7	604	5	11	26	15	7	..	..	..	..	..	..	..	..	..	..	..	..			
7. Brim .. .. .	193	7	9	284	2	3	10	18	9	31	0	0	0	18	7	326	19	7	183	11	10	..	..	..	..	..	..	..	..	..	..	..	..			
8. Camperdown .. .. .	6,847	12	2	3,324	19	6	1,823	18	1	698	0	0	140	2	8	5,937	0	3	8,090	5	6	..	..	..	..	..	..	..	..	..	..	..	..			
9. Chelsea-Frankston .. .. .	25,929	4	2	14,500	5	5	4,428	17	9	3,565	0	0	344	12	2	22,838	18	8	3,090	5	6	..	..	..	..	..	..	..	..	..	..	..	..			
10. Cobden .. .. .	1,980	5	3	1,268	8	0	426	19	6	177	0	0	32	17	4	1,905	4	10	75	0	5	..	..	..	..	..	..	..	..	..	..	..	..			
11. Cranbourne .. .. .	525	10	2	312	12	6	19	13	11	103	0	0	1	12	10	436	19	3	38	10	11	..	..	..	..	..	..	..	..	..	..	..	..			
12. Culgoa .. .. .	245	1	1	273	10	1	74	1	4	18	0	0	5	15	2	371	16	7	126	15	6	..	..	..	..	..	..	..	..	..	..	..	..			
13. Dandenong-Springvale .. .. .	21,580	12	9	12,811	11	9	5,376	0	0	2,416	0	0	4	6	2	21,019	17	11	540	14	10	..	..	..	..	..	..	..	..	..	..	..	..	..		
14. Dinabool .. .. .	2,483	17	1	1,565	8	2	358	2	0	621	10	4	..	..	9	2,573	0	3	89	3	2	..	..	..	..	..	..	..	..	..	..	..	..			
15. Dromana-Portsea .. .. .	13,769	7	6	6,691	4	4	141	16	8	1,593	0	0	12	1	1	8,438	2	1	5,331	5	5	..	..	..	..	..	..	..	..	..	..	..	..	..		
16. Jeparit .. .. .	1,001	5	3	736	10	7	187	18	6	39	0	0	14	17	0	978	6	1	22	19	2	..	..	..	..	..	..	..	..	..	..	..	..			
17. Longwarry .. .. .	2,299	17	3	497	12	5	304	7	5	119	0	0	23	14	9	944	14	7	44	4	8	..	..	..	..	..	..	..	..	..	..	..	..			
18. Marnoo .. .. .	1,438	5	0	174	9	5	44	12	2	33	0	0	3	11	0	255	12	7	48	10	5	..	..	..	..	..	..	..	..	..	..	..	..			
19. Merbein .. .. .	2,235	6	7	1,756	8	7	138	3	4	137	0	0	10	17	0	2,042	18	11	192	7	6	..	..	..	..	..	..	..	..	..	..	..	..			
20. Minyip .. .. .	736	14	6	871	17	2	101	2	2	75	0	0	8	1	8	1,056	1	0	319	6	6	..	..	..	..	..	..	..	..	..	..	..	..			
21. Mornington .. .. .	6,433	11	7	3,904	18	10	1,740	12	3	880	0	0	135	15	0	6,661	6	1	227	17	9	..	..	..	..	..	..	..	..	..	..	..	..	..		
22. Narmuk .. .. .	440	0	4	274	7	6	134	3	5	50	0	0	10	7	2	468	18	1	28	17	6	..	..	..	..	..	..	..	..	..	..	..	..			
23. Pakenham .. .. .	2,057	8	6	912	10	4	317	17	6	239	0	0	24	19	1	1,494	6	11	563	1	7	..	..	..	..	..	..	..	..	..	..	..	..	..		
24. Piprind Hill .. .. .	5	2	0	10	0	3	..	..	..	..	..	..	..	..	..	10	0	3	4	18	3	..	..	..	..	..	..	..	..	..	..	..	..			
25. Pyramid Hill .. .. .	511	4	3	505	12	4	42	12	5	39	0	0	3	9	0	590	13	9	79	9	6	..	..	..	..	..	..	..	..	..	..	..	..			
26. Queenscliff-Pt. Lonsdale .. .. .	5,168	0	5	3,750	14	11	533	18	6	561	0	0	42	2	8	4,887	16	1	280	4	4	..	..	..	..	..	..	..	..	..	..	..	..	..		
27. Rainbow .. .. .	1,111	3	4	637	0	7	249	13	2	48	0	0	19	10	5	954	4	3	156	19	1	..	..	..	..	..	..	..	..	..	..	..	..			
28. Rupanyup .. .. .	939	4	4	627	13	6	138	14	2	57	0	0	11	10	9	835	15	7	103	8	9	..	..	..	..	..	..	..	..	..	..	..	..			
29. Somerville .. .. .	465	2	0	248	0	5	151	18	8	61	0	0	10	17	2	472	15	0	7	13	0	..	..	..	..	..	..	..	..	..	..	..	..			
30. South Frankston .. .. .	3,618	12	10	1,834	10	1	851	2	5	324	0	0	66	8	10	3,076	1	4	542	11	6	..	..	..	..	..	..	..	..	..	..	..	..			
31. Terang .. .. .	4,751	12	2	2,150	1	5	934	17	5	545	0	0	72	5	8	3,702	4	8	1,049	7	10	..	..	..	..	..	..	..	..	..	..	..	..			
32. Watchem .. .. .	371	3	10	302	15	10	4	2	10	35	0	0	0	8	0	342	6	8	28	17	2	..	..	..	..	..	..	..	..	..	..	..	..			
Totals .. .. .	110,743	17	11	64,251	5	3	18,936	11	8	13,162	10	4	1,472	19	11	97,826	1	3	{(Cr.) 14,029 3 10}	127	15	6	{(A) 0 8 0}	14,197	5	10	7,687	6	0	133,268	3	7				
																		{(Dr.) 1,111 7 2}	{(B) 14 13 5}																	





# FLOOD PROTECTION DISTRICTS.

## CASH ACCOUNT.

STATEMENT of Moneys received and disbursed from 1st July, 1920, to 30th June, 1950, also of Interest and Depreciation charged for Financial Year 1949-50.

District.	Receipts.		Expenditure.						Excess Receipts over Expenditure 1949-50.	Excess Expenditure over Receipts 1949-50.	Accumulated.		
	Receipts Year Ended 30th June, 1950.	Total 1920 to 30th June, 1950.	Year ended 30th June, 1950										
			Operating Costs.	Interest.	Depreciation.	Total.	£ s. d.	£ s. d.			£ s. d.		
1. Cardina ..	£ s. d. 2,910 17 9	£ s. d. 61,617 2 1	£ s. d. 17,704 12 8*	£ s. d. ..	£ s. d. 18 0 0	£ s. d. 17,722 12 8	£ s. d. 75,796 19 6	£ s. d. ..	£ s. d. 14,811 14 11	£ s. d. ..	£ s. d. 10,875 18 3	£ s. d. 3,303 19 2	
2. Kanyapella ..	£ s. d. 107 18 9	£ s. d. 6,664 18 0	£ s. d. 58 8 0	£ s. d. ..	£ s. d. 5 0 0	£ s. d. 63 8 0	£ s. d. 4,923 10 3	£ s. d. 44 10 9	£ s. d. ..	£ s. d. 1,741 7 9	£ s. d. ..	£ s. d. ..	
3. Loch Garry ..	£ s. d. 390 2 2	£ s. d. 20,986 9 0	£ s. d. 743 16 3	£ s. d. ..	£ s. d. 11 0 0	£ s. d. 754 16 3	£ s. d. 17,724 12 1	£ s. d. ..	£ s. d. 364 14 1	£ s. d. 3,261 16 11	£ s. d. ..	£ s. d. ..	
4. Lower Koo-wee-rup ..	£ s. d. 5,317 4 2	£ s. d. 119,144 12 7	£ s. d. 14,585 3 7	£ s. d. ..	£ s. d. 58 0 0	£ s. d. 14,613 3 7	£ s. d. 137,552 1 5	£ s. d. ..	£ s. d. 9,825 19 5	£ s. d. ..	£ s. d. 10,458 7 2	£ s. d. 7,949 1 8	
Totals ..	£ s. d. 8,726 2 10	£ s. d. 208,413 1 8	£ s. d. 33,092 0 6*	£ s. d. ..	£ s. d. 92 0 0	£ s. d. 33,184 0 6	£ s. d. 235,997 3 3	£ s. d. 44 10 9	£ s. d. 24,502 8 5	£ s. d. 5,003 4 8	£ s. d. 21,334 5 5	£ s. d. 11,253 0 10	

\* Includes £10,000 Capitalized Maintenance on Bridges.

## PROFIT AND LOSS ACCOUNT FOR FINANCIAL YEAR 1949-50.

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

District.	Expenditure.						Profit and Loss.									
	Revenue Assessment.	Operating Costs.	Interest.	Depreciation.	Amounts Written Off.	Total.	Excess Assessment over Expenditure.		Excess Expenditure over Assessment.		Revenue Due for Previous Years Written Off.	Adjustments of Revenue Prior to 1949-50. (A) Loss. (B) Gain.		Interest and Other Losses Prior to 30th June, 1938 Borne by State. (Act No. 5017).	Loss since 30th June, 1938.	Gain as at 30th June, 1950.
							£	s. d.	£	s. d.		£	s. d.			
1. Cardinia ..	£ s. d. 2,768 19 7	£ s. d. 7,819 12 8*	£ s. d. ..	£ s. d. 18 0 0	£ s. d. ..	£ s. d. 7,837 12 8	£ s. d. ..	£ s. d. 5,068 13 1	£ s. d. ..	£ s. d. ..	(A) 0 1 0 (B) 0 1 0	£ s. d. 3,303 19 2	£ s. d. ..	£ s. d. 28 13 4		
2. Kanyapella ..	£ s. d. 127 4 3	£ s. d. 58 8 0	£ s. d. ..	£ s. d. 5 0 0	£ s. d. ..	£ s. d. 63 8 0	£ s. d. 63 16 3	£ s. d. ..	£ s. d. ..	£ s. d. ..	£ s. d. ..	£ s. d. ..	£ s. d. ..	£ s. d. 1,807 11 11		
3. Loch Garry ..	£ s. d. 366 16 7	£ s. d. 743 16 3	£ s. d. ..	£ s. d. 11 0 0	£ s. d. 2 8 0	£ s. d. 757 4 3	£ s. d. ..	£ s. d. 390 7 8	£ s. d. ..	£ s. d. ..	£ s. d. ..	£ s. d. ..	£ s. d. ..	£ s. d. 3,407 19 9		
4. Lower Koo-wee-rup ..	£ s. d. 4,837 12 11	£ s. d. 14,585 3 7	£ s. d. ..	£ s. d. 58 0 0	£ s. d. 1 11 4	£ s. d. 14,644 14 11	£ s. d. ..	£ s. d. 9,807 2 0	£ s. d. 6 3	(A) 0 7 3 (B) 0 7 3	£ s. d. 7,949 1 8	£ s. d. 9,422 3 7	£ s. d. ..	£ s. d. ..		
Total	£ s. d. 8,100 13 4	£ s. d. 24,207 0 6*	£ s. d. ..	£ s. d. 92 0 0	£ s. d. 3 19 4	£ s. d. 23,302 19 10	£ s. d. 63 16 3	£ s. d. 15,266 2 9	£ s. d. 6 3	(A) 0 8 3 (B) 0 1 0	£ s. d. 11,253 0 10	£ s. d. 9,422 3 7	£ s. d. 5,244 5 0	£ s. d. ..		

\* Includes £115 instalment in respect of Capitalized Maintenance.

DRAINAGE DISTRICT.

CASH ACCOUNT.

STATEMENT of Moneys received and disbursed from 1st July, 1937, to 30th June, 1950; also of Depreciation charged for Financial Year 1949-50.

District.	Receipts.			Expenditure.					Excess Receipts over Expenditure 1949-50.	Excess Expenditure over Receipts, 1949-50.	Accumulated.		
	Receipts 1949-50.	Total, 1937, to 30th June, 1950.	3.	Year Ended 30th June, 1950.				Total, 1937, to 30th June, 1950.			Surplus Credited to District Account at 30th June, 1950.	Deficiency Chargeable to District Account at 30th June, 1950.	Deficiency Chargeable to State Account at 30th June, 1950 (Inclusive of Column 10).
				Operating Costs.	Depreciation.	Total.	7.						
1.	2.	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.		
1. Carrum .. ..	2,829 13 3	23,317 0 0	4,931 9 3	12 0 0	4,943 9 3	24,872 11 3	..	2,113 16 0	..	1,555 11 3	..		
Total .. ..	2,829 13 3	23,317 0 0	4,931 9 3	12 0 0	4,943 9 3	24,872 11 3	..	2,113 16 0	..	1,555 11 3	..		

PROFIT AND LOSS ACCOUNT FOR FINANCIAL YEAR 1949-50.

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 1949-50. (A) Loss. (B) Gain.	Interest and Other Losses Prior to 30th June 1938 Borne by State. (Act No. 5017.)	Loss since 30th June, 1938.	Gain as at 30th June, 1950.
1. Carrum ..	£ s. d. 2,878 10 10	£ s. d. 4,931 9 3	£ s. d. 12 0 0	£ s. d. 1 17 1	£ s. d. 4,945 6 4	£ s. d. ..	£ s. d. 2,066 15 6	£ s. d. 2 10 4	£ s. d. ..	£ s. d. ..	£ s. d. 958 2 5	£ s. d. ..
Total ..	2,878 10 10	4,931 9 3	12 0 0	1 17 1	4,945 6 4	..	2,066 15 6	2 10 4	..	..	958 2 5	..

# SUMMARY OF CASH ACCOUNTS, 1949-50.

Works.	Receipts.		Expenditure.					Total, 1908 to 30th June, 1950.	(S) Excess Receipts over Expenditure ; (D) Excess Expenditure over Receipts, 1949-50.	Accumulated Surplus or Deficiency at 30th June, 1950.		
	Year Ended 30th June, 1950.	3.	Year Ended 30th June, 1950.			Total.	8.			9.	10.	11.
			Operating Costs.	(A) Interest ; (B) Redemption.	Depreciation.							
	2.		4.	5.	6.	7.				(D) Chargeable ; or (S) Credited to District Account.	Chargeable to State Account (Inclusive of Column 9).	
1.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	
Central Plant Workshops, Bendigo ..	12,628 11 7	14,327 13 3	22,860 1 6	(A) 529 1 10	1,195 0 0	24,584 3 4	47,076 11 2	(D) 11,955 11 9	{(S) 45 5 6 } {(D) 32,794 3 5 }	..	..	
Colliery System ..	62,575 17 11	1,986,609 3 11	66,352 4 9	(A) 9,693 2 3	8,178 0 0	84,223 7 0	2,936,241 1 1	(D) 21,647 9 1	(D) 15,972 12 10	983,659 4 4	4 4	
Irrigation Districts ..	536,580 15 3	9,539,815 5 10	558,100 13 10	..	26,434 0 0	584,534 13 10	(10,584,288 9 11	{(S) 16,734 10 9 } {(D) 64,688 9 4 }	(S) 92,857 4 9 } (D) 274,994 16 8 }	802,385 12 2	12 2	
Irrigation Urban Divisions ..	9,295 15 8	192,064 3 6	7,707 6 9	{(A) 494 8 10 } {(B) 34 12 2 }	961 6 3	9,197 14 0	187,757 8 3	{(S) 1,065 14 9 } {(D) 967 13 1 }	(S) 9,111 9 6 } (D) 785 17 3 }	4,018 17 0	17 0	
Waterworks Districts ..	240,081 3 3	4,649,837 14 9	310,369 4 10	{(A) 7,808 1 3 } {(B) 464 7 0 }	13,384 0 0	332,085 13 1	6,989,449 0 5	{(S) 10,551 4 3 } {(D) 102,555 14 1 }	(S) 54,718 14 10 } (D) 236,502 8 8 }	2,157,827 11 10	11 10	
Waterworks Urban Districts ..	135,659 13 9	2,289,792 2 0	92,875 17 4	{(A) 19,532 5 4 } {(B) 2,556 3 11 }	16,185 2 8	131,149 9 3	2,230,338 18 4	{(S) 12,255 9 8 } {(D) 7,745 5 2 }	(S) 129,953 14 11 } (D) 15,164 16 6 }	55,335 14 9	14 9	
Flood Protection Districts ..	8,726 2 10	208,413 1 8	33,092 0 6*	..	92 0 0	33,184 0 6	235,997 3 3	{(S) 44 10 9 } {(D) 24,502 8 5 }	(S) 5,003 4 8 } (D) 21,334 5 5 }	11,253 0 10	0 10	
Carrum Drainage District ..	2,829 13 3	23,317 0 0	4,931 9 3	..	12 0 0	4,943 9 3	24,872 11 3	(D) 2,113 16 0	(D) 1,555 11 3	..	..	
Totals ..	1,008,377 13 6	18,904,176 4 11	1,096,288 18 9*	{(A) 38,116 19 6 } {(B) 3,055 3 1 }	66,441 8 11	1,203,902 10 3	23,236,021 3 8	{(S) 40,651 10 2 } {(D) 236,176 6 11 }	(S) 291,689 14 2 } (D) 599,104 12 0 }	4,024,430 0 11	0 11	

\* Includes £10,000 Capitalized Maintenance in respect of bridges in Cardinia Flood Protection District.

SUMMARY OF PROFIT AND LOSS ACCOUNTS FOR FINANCIAL YEAR 1949-50.

Works.	Expenditure.						Profit and Loss.						
	Revenue Assessment.	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 1949-50. (A) Loss. (B) Gain.	Interest and Other Losses prior to 30th June, 1938. Borne by State. (Act No. 5017.)	Loss since 30th June, 1938.	Gain as at 30th June, 1950.
	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£
Central Plant Work-shops, Bendigo	14,674 14 6	22,860 1 6	529 1 10	1,195 0 0	44 1 10	..	24,628 5 2	(Dr.) 9,953 10 8	..	..	..	17,129 19 10	45 5 6
Coliban System	63,121 11 3	66,352 4 9	9,693 2 3	8,178 0 0	733 1 10	46 15 0	85,003 3 10	(Dr.) 21,881 12 7	308 1 5	(B) 5 4 6	828,373 18 10	124,394 2 10	..
Irrigation Districts	537,640 1 3	558,100 13 10	..	26,434 0 0	..	5,584 10 1	590,119 3 11	{(Cr.) 11,246 19 2} {(Dr.) 68,766 1 10}	882 11 5	{(A) 40 13 10} {(B) 106 17 10}	672,193 3 1	400,258 12 6	122,331 12 4
Irrigation Divisions	9,213 4 6	7,707 6 9	494 8 10	961 6 3	39 5 4	10 3 0	9,212 10 2	{(Cr.) 1,018 19 9} {(Dr.) 1,018 5 5}	7 3 2	(B) 1 12 0	1,337 14 5	3,366 15 4	9,907 1 0
Waterworks Districts	215,481 15 7	310,369 4 10	7,868 1 3	10,584 0 0	609 17 4	1,163 12 5	330,594 15 10	{(Cr.) 11,357 17 8} {(Dr.) 126,470 17 11}	14,166 8 2	{(A) 2,830 5 31 {(B) 266 3 0}	677,688 8 2	1,637,303 3 5	62,668 18 8
Waterworks Districts	137,931 9 0	92,875 17 4	19,532 5 4	16,185 2 8	1,520 0 7	43 16 1	130,157 2 0	{(Cr.) 14,708 15 0} {(Dr.) 6,934 8 0}	579 14 9	{(A) 1 8 0 {(B) 28 18 5}	26,603 15 7	33,245 14 1	148,769 19 10
Flood Protection Districts	8,100 13 4	23,207 0 6*	..	92 0 0	..	3 19 4	23,302 19 10	{(Cr.) 63 16 3} {(Dr.) 15,266 2 9}	0 6 3	{(A) 0 8 3 {(B) 0 1 0}	11,253 0 10	9,422 3 7	5,244 5 0
Carrum Drainage District	2,878 10 10	4,931 9 3	..	12 0 0	..	1 17 1	4,945 6 4	(Dr.) 2,066 15 6	2 10 4	..	..	958 2 5	..
Totals	989,042 0 3	1,086,403 18 9*	38,116 19 6	63,641 8 11	2,946 6 11	6,854 13 0	1,197,963 7 1	{(Dr.) 247,357 14 8} {(Cr.) 38,436 7 10}	15,946 15 6	{(A) 2,872 15 41 {(B) 408 16 9}	2,217,450 0 11	2,348,967 2 4	349,007 13 7

\* Includes £115 instalment on Capitalized Maintenance.

+ Includes Depreciation charge £2,800 in respect of previous years.

# DISTRICT BALANCE SHEETS AS AT 30TH JUNE, 1950.

District.	Liabilities.					Assets.						
	Capital borne by— (A) State. (B) District.	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.	
											Interest and Other Losses prior to 30th June, 1938, borne by State. (Act No. 5017)	Loss since 30th June, 1938.
1. Bendigo	.. .. { (A) 116,757 11 7 } { (B) 17,636 8 0 }	122 10 0	2,809 7 6	.. ..	(B) 32,748 17 11	.. ..	134,394 9 8	2,809 7 6	15,786 3 6	.. ..	17,084 14 4	.. ..
CENTRAL PLANT WORKSHOPS.												
£170,074 15s. 0d.												
1. Harcourt	.. .. (A) 17,022 9 3	232 18 6	131 9 8	.. ..	(B) 1,049 7 2	.. ..	17,255 7 9	131 9 8	0 6 3	.. ..	1,049 0 11	.. ..
Totals	.. .. (A) 17,022 9 3	232 18 6	131 9 8	.. ..	(B) 1,049 7 2	.. ..	17,255 7 9	131 9 8	0 6 3	.. ..	1,049 0 11	.. ..
COLIBAN SYSTEM.												
2. Axe Creek	.. .. (A) 4,908 18 4	.. ..	.. ..	.. ..	{ (A) 278 15 1 } { (B) 983 8 1 }	.. ..	4 908 18 4	.. ..	44 17 4	.. ..	1,217 5 10	.. ..
3. Coliban	.. .. { (A) 1,840,024 17 10 } { (B) 293,199 19 6 }	9,942 12 3	58,198 10 2	80 18 11	{ (A) 932,976 1 1 } { (B) 13,729 8 9 }	.. ..	2,133,224 17 4	58,198 10 2	6,800 1 7	.. ..	121,555 0 7	828,373 18 10
4. Marong	.. .. { (A) 2,076 19 9 } { (B) 22 18 10 }	14 14 8	585 4 4	3 17 0	{ (A) 404 8 2 } { (B) 210 8 10 }	.. ..	2,114 0 8	585 4 4	46 11 1	.. ..	572 15 6	.. ..
Totals	.. .. (A) 1,847,010 15 11 (B) 293,222 18 4	9,957 6 11	58,778 14 6	84 15 11	{ (A) 933,659 4 4 } { (B) 14,923 5 8 }	.. ..	2,147,247 16 4	58,778 14 6	6,891 10 0	.. ..	123,345 1 11	828,373 18 10
Grand Total	.. .. { (A) 1,864,033 5 2 } { (B) 293,223 18 4 }	10,190 5 5	58,910 4 2	84 15 11	{ (A) 933,659 4 4 } { (B) 15,972 12 10 }	.. ..	2,147,503 4 1	58,910 4 2	6,891 16 3	.. ..	124,394 2 10	828,373 18 10
£3,170,073 6s. 2d.												
£3,170,073 6s. 2d.												

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, 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, under the provisions of Section 6, *Water Act* 1937, No. 4513).

## DISTRICT BALANCE SHEETS AS AT 30TH JUNE, 1950.

District.	Liabilities.					Assets.						
	Capital borne by State.	Redemption Account.	Depreciation Account.	Sundry Creditors.	Accumulated Deficiency Chargeable to—	Profit. and Loss Account.	Works at Cost.	Water Supply Works Depreciation Fund.	Sundry Debtors.	Accumulated Surplus Credited to District Account.	Profit and Loss Account.	
					(A) State Account. (B) District Account.						Loss since 30th June, 1938.	Interest and Other Losses prior to 30th June, 1938, Borne by State (Act No. 5017.)
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
IRRIGATION DISTRICTS.												
1. Bacchus Marsh	£ s. d. 185,982 8 9	£ s. d. 968 9 4	£ s. d. 289 19 11	£ s. d. 11 4	£ s. d. {(A) 21,170 8 3 (B) 14,195 14 11}	£ s. d. .. ..	£ s. d. 186,950 18 1	£ s. d. 289 19 11	£ s. d. 642 16 11	£ s. d. ..	£ s. d. 13,553 9 4	£ s. d. 21,170 8 3
2. Boort	271,459 7 0	215 13 8	460 13 10	27 4 2	{(A) 1,620 15 3 (B) 30,168 5 2}	.. ..	271,675 0 8	460 13 10	953 17 1	..	29,239 12 3	1,620 15 3
3. Calvill	197,955 8 2	163 7 2	196 15 3	3 9 2	{(A) 19,935 9 2 (B) 30,168 5 2}	15,112 14 2	198,108 15 4	196 16 3	1,483 14 9	13,632 8 7	..	19,935 9 2
4. Campaspe	20,972 6 4	..	..	2 14 0	{(A) 3,695 6 10 (B) 3,695 6 10}	2,381 1 0	20,972 6 4	..	228 8 1	2,155 6 11	..	3,695 6 10
5. Central Gippsland (under construction)	488,804 2 2	..	..	..	..	..	488,804 2 2	..	..	..	..	..
6. Cohuna	855,068 16 6	4,025 5 5	336 13 6	11 0 10	{(A) 15,145 0 10 (B) 15,145 0 10}	24,800 3 5	859,094 1 11	336 13 6	5,779 9 3	19,031 15 0	..	15,145 0 10
7. Deakin	96,070 4 10	506 14 4	..	1 3 1	{(A) 2,255 4 9 (B) 2,255 4 9}	5,340 19 2	96,576 19 2	..	1,429 1 4	3,913 0 11	..	2,255 4 9
8. Dingee	92,390 2 0	198 0 9	151 15 9	5 10 10	{(A) 4,766 11 5 (B) 4,766 11 5}	3,628 16 6	92,588 2 9	151 15 9	203 6 4	3,431 7 0	..	4,766 11 5
9. Katandra	183,530 9 7	220 9 5	182 16 10	1 11 0	{(A) 27,858 0 1 (B) 27,858 0 1}	5,865 16 7	183,810 19 0	182 16 10	756 9 1	5,110 18 6	..	27,858 0 1
10. Kerang	387,472 0 9	1,110 12 9	108 12 11	11 11 3	{(A) 3,766 6 2 (B) 3,766 6 2}	7,421 13 9	388,582 13 6	108 12 11	4,913 19 11	2,519 5 1	..	3,766 6 2
11. Koondrook	483,812 12 7	1,307 4 9	..	16 3 0	{(A) 52,391 9 8 (B) 7,107 7 5}	..	485,119 17 4	..	4,736 4 11	..	2,387 5 6	52,391 9 8
12. Maffra-Sale	1,321,564 5 2	2,447 15 0	2,120 8 11	44 16 6	{(A) 3,713 1 5 (B) 8,176 4 2}	..	1,324,012 0 2	2,120 8 11	2,215 15 8	..	6,005 5 0	3,713 1 5
13. Murray Valley	2,533,615 0 6	136 0 0	692 5 2	39 12 9	{(A) 20,590 12 2 (B) 20,590 12 2}	20,590 12 2	2,533,749 0 6	692 5 2	3,622 9 2	17,007 15 9	..	..
14. Mystic Park	58,760 18 11	101 8 8	..	2 0 0	{(A) 2,112 16 8 (B) 11,320 10 9}	..	58,862 7 7	..	206 17 5	..	11,115 13 4	2,112 16 8
15. North Shepparton	369,465 6 0	1,052 13 5	429 16 2	10 10 11	{(A) 42,760 2 0 (B) 42,760 2 0}	4,186 12 9	370,517 19 5	429 16 2	692 4 8	3,505 5 0	..	42,760 2 0
16. Robinvale	407,409 12 11	..	13,165 7 11	..	{(A) 19,455 19 11 (B) 19,455 19 11}	..	407,409 12 11	13,165 7 11	223 17 6	..	19,232 2 5	..
17. Rochester	1,194,769 12 7	3,408 12 1	2,157 16 0	49 10 3	{(A) 35,162 16 6 (B) 35,162 16 6}	33,003 2 10	1,198,178 4 8	2,157 16 0	10,502 11 1	22,550 2 0	..	35,162 16 6
18. Rodney	1,550,483 17 9	2,342 14 3	2,956 11 0	52 2 5	{(A) 86,159 15 7 (B) 15,995 8 0}	..	1,552,826 12 0	2,956 11 0	9,141 18 0	..	6,905 12 5	86,159 15 7
19. Shepparton	497,806 16 1	899 3 8	1,347 1 2	3 0	{(A) 60,912 11 9 (B) 11,432 3 10}	..	498,705 19 9	1,347 1 2	1,496 1 0	..	9,936 5 10	60,912 11 9
20. South Shepparton	119,068 5 11	309 12 3	151 1 9	..	{(A) 2,735 16 9 (B) 3,624 14 8}	..	119,377 18 2	151 1 9	277 3 4	..	3,347 11 4	2,735 16 9
21. Swan Hill	485,192 10 0	1,033 7 8	8,564 14 7	37 19 1	{(A) 6,236 10 6 (B) 35,458 10 6}	..	486,225 17 8	8,564 14 7	5,090 17 11	..	30,405 11 8	6,236 10 6
22. Third Lake	51,579 18 0	82 3 11	..	..	{(A) 2,439 2 2 (B) 1,526 13 2}	..	51,662 1 11	..	444 4 7	..	1,082 8 7	2,439 2 2
23. Tongala-Stanhope	947,461 2 4	2,562 12 6	1,844 4 0	35 18 1	{(A) 73,622 18 2 (B) 24,123 7 7}	..	950,023 14 10	1,844 4 0	10,622 7 2	..	13,536 18 6	73,622 18 2
24. Tragowel Plains	785,243 6 2	1,461 1 9	1,039 6 0	7 13 2	{(A) 42,840 6 8 (B) 23,761 15 1}	..	786,704 7 11	1,039 6 0	4,770 3 2	..	18,999 5 1	42,840 6 8
25. Werribee	309,950 5 7	1,491 5 10	1,465 16 8	45 13 6	{(A) 15,475 10 3 (B) 9,504 15 9}	..	311,441 11 5	1,465 16 8	674 18 1	..	8,875 11 2	15,475 10 3
Totals	13,895,946 16 7	26,034 8 7	37,361 18 4	407 10 4	{(A) 526,776 0 10 (B) 215,849 10 11}	122,331 12 4	13,921,981 5 2	37,361 18 4	71,108 16 5	92,857 4 9	174,622 12 5	526,776 0 10



# DISTRICT BALANCE SHEETS AS AT 30TH JUNE, 1950.

District.	Liabilities.						Assets.							
	Capital borne by— (A) State. (B) District.	Redemption Account.	Depreciation Account.	Sundry Creditors.	Accumulated Deficiency Chargeable to—		Profit and Loss Account.	Works at Cost.	Water Supply Works Depreciation Fund.	Sundry Debtors.	Accumulated Surplus Credited to District Account.	Profit and Loss Account.		
					(A) State Account.	(B) District Account.						Loss since 30th June, 1938, Borne by State (Act No. 5017.)	Interest and Other Losses prior to 30th June, 1938.	
														Gain.
£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
URBAN DIVISIONS.														
1. Bacchus Marsh	{(A) (B)}	4,439 12 10	333 10 3	1,850 3 8	5 19 5	(A)	928 14 10	3,143 17 11	14,803 13 10	1,850 3 8	44 9 6	3,105 7 10	..	928 14 10
2. Cohuna	{(A) (B)}	10,000 10 9	193 15 8	1,061 10 2	5 6 6	..	..	2,368 12 0	9,725 16 6	1,061 10 2	291 11 10	2,082 6 8	..	..
3. Lockington	{(A) (B)}	6,371 17 2	36 4 2	482 4 0	3 0 0	..	..	715 13 10	2,340 17 10	482 4 0	81 6 0	637 7 10	..	..
4. Macorna	{(A) (B)}	3,160 8 8	..	26 0 0	..	(B)	269 1 5	..	1,378 12 1	26 0 0	22 16 1	..	246 5 4	..
5. Red Cliffs	{(A) (B)}	19,304 12 9	257 1 0	672 2 1	3 0 11	..	..	2,508 1 9	21,167 3 6	672 2 1	335 1 5	2,194 13 11	..	..
6. Robinvale	{(A) (B)}	1,624 2 5	..	161 0 0	..	(B)	318 16 10	..	8,960 0 10	161 0 0	29 4 0	..	289 12 10	..
7. Tallygaroopna	{(A) (B)}	8,960 0 10	..	47 6 3	..	..	..	50 14 0	4,084 9 5	47 6 3	..	50 14 0	..	..
Totals	{(A) (B)}	46,753 18 4	820 11 1	4,300 6 2	17 6 10	{(A) (B)}	928 14 10 587 18 3	8,786 19 6	62,460 14 0	4,300 6 2	804 8 10	8,070 10 3	535 18 2	928 14 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 of these districts has been transferred to the "Revenue Expenditure Chargeable to the State Account". (By authority of 30th July, 1938, and 18th December, 1944, under the provisions of Section 6, *Water Act* 1937, No. 4513.)

8. Corop	{(A) (B)}	231 15 6	..	91 1 5	..	{(A) (B)}	88 9 9	0 13 10	231 15 6	91 1 5	26 15 6	..	..	62 8 1
9. Dingee	{(A) (B)}	1,674 3 11	..	123 6 7	..	{(A) (B)}	305 3 1	..	1,674 3 11	123 6 7	0 10 0	..	378 5 5	93 10 6
10. Heyfield	{(A) (B)}	13,031 18 6	..	1,740 13 7	0 0 6	{(A) (B)}	1,535 4 3	..	13,031 18 6	1,740 13 7	18 7 9	..	1,355 17 10	160 19 2
11. Leitchville	{(A) (B)}	3,892 8 4	23 19 8	475 4 5	0 11 3	{(A) (B)}	..	302 4 2	3,916 8 0	475 4 5	60 11 9	242 3 8	..	..
12. Murrabit	{(A) (B)}	1,030 18 3	..	439 9 1	..	{(A) (B)}	1,161 5 1	..	1,030 18 3	439 9 1	3 5 6	..	1,096 13 11	92 1 10
13. Stanhope	{(A) (B)}	1,292 14 6	21 4 4	439 4 8	0 13 4	{(A) (B)}	30 16 2	817 3 6	1,313 18 10	439 4 8	19 1 3	798 15 7	..	..
Totals ..	{(A) (B)}	21,153 19 0	45 4 0	3,308 19 9	1 5 1	{(A) (B)}	3,090 2 2	1,120 1 6	21,199 3 0	3,308 19 9	128 11 9	1,040 19 3	2,830 17 2	408 19 7
Grand Totals	{(A) (B)}	67,907 17 4	865 15 1	7,609 5 11	18 11 11	{(A) (B)}	4,018 17 0	9,907 1 0	83,659 17 0	7,609 5 11	933 0 7	9,111 9 6	3,366 15 4	1,337 14 5

£106,018 2s. 9d.

106,018 2 9



# DISTRICT BALANCE SHEETS AS AT 30TH JUNE, 1950.

District.	Liabilities.					Assets.								
	Capital borne by— (A) State. (B) District.	Redemption Account.	Depreciation Account.	Sundry Creditors.	Accumulated Deficiency Chargeable to— (A) State (B) District 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.					Loss since 30th June, 1938.	Interest and Other Losses prior to 30th June, 1938, Borne by State. (Act No. 5017.)	
														£
	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.
WATERWORKS DISTRICTS.														
1. Bellarine Peninsula	{(A) 256,243 12 2 (B) 83,187 4 2 (A) 2,287 10 0}	2,525 6 4	..	6 15 0	(A) 9,927 9 8 ..	11,162 2 10 1,041 4 5	341,318 1 5 5,568 19 1	..	899 4 6 10 5 8	10,907 14 7 1,033 16 3	..	9,927 9 8		
2. East Loddon	(A) 3,012 9 10	4,320 17 6	..	8 12 10	(B) 2,012 0 5	..	7,333 7 4	..	63 19 10	..	1,936 13 5	..		
3. Loddon	{(A) 450,546 1 1 (B) 64,395 9 9 (A) 4,636 6 10}	1,771 13 2	298 18 5	1 15 5	(A) 1,077 12 3 ..	41,393 17.0 232 0 0	516,548 3 11 4,636 6 10	298 18 5	4,632 15 6	36,927 17 0 232 0 0	..	1,077 12 3		
4. Mornington Peninsula	(A) 44,900 10 1	222 1 11	..	5 2 2	(B) 650 10 10	..	45,122 12 0	..	280 1 11	..	375 11 1	..		
5. Newstead	{(A) 108,745 10 9 (B) 89,986 4 6 (A) 12,315 0 4}	2,883 19 5	23,876 5 3	76 1 2	(B) 3,165 9 8 (A) 2,221 10 10	838 4 6	201,615 14 8 12,397 13 2	23,876 5 3	593 13 3	..	2,647 17 7	..		
6. Normanville	(A) 377,130 6 0	177 10 2	8,437 8 7	51 3 5	{(A) 13,428 5 1 (B) 40,731 0 10 (B) 127 3 5}	..	377,307 16 2 12,784 8 7	8,437 8 7	2,510 1 1	..	38,272 3 2	13,428 5 1		
7. Otway	(A) 9,020 1 4	3,764 7 3	..	0 1 0	..	..	309,140 10 0	2,220 8 1	2,285 8 2	4,799 8 7	..	..		
8. Werribee	(A) 308,174 17 1	965 12 11	2,220 8 1	28 2 10	..	7,056 13 11	129,784 9 0	..	338 2 4	..	11,693 12 5	..		
9. Western Wimmera	(A) 129,784 9 0	..	..	56 1 3	(B) 11,975 13 6	..	1,963,558 2 2	34,833 0 4	11,716 13 7	54,718 14 10	54,993 10 9	26,654 17 10		
10. West Loddon	{(A) 1,706,796 14 6 (B) 237,568 18 5}	19,995 10 7	34,833 0 4	239 16 6	{(A) 26,654 17 10 (B) 58,661 18 8}	61,724 2 8	..	..	..	..	..	..		
11. Wimmera United	..	..	..	..	..	..	..	..	..	..	..	..		
12. Wychitella	..	..	..	..	..	..	..	..	..	..	..	..		
Totals	..	..	..	..	..	..	..	..	..	..	..	..		
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, under the provisions of Section 6, Water Act 1937, No. 4513.)														
13. Birchlip	(A) 141,381 8 11	382 17 0	..	7 13 8	{(A) 34,931 8 1 (B) 5,077 15 6 (A) 97,187 9 8 (B) 3,539 8 8}	..	141,764 5 11	..	419 6 10	..	15,753 9 1	23,844 1 4		
14. Carwarp	(A) 42,184 18 6	..	2,756 1 11	1 0 0	{(A) 5,145 14 3 (B) 763 19 2 (A) 71,620 1 10 (B) 2,922 13 10}	..	42,184 18 6	2,756 1 11	2,290 0 10	..	44,890 18 8	53,546 18 10		
15. Carwarp Central	(A) 2,403 16 2	..	290 7 8	..	..	..	2,403 16 2	290 7 8	388 3 6	..	4,095 4 11	1,426 5 0		
16. Coreena	(A) 54,708 16 5	..	1,145 0 0	0 10 0	{(A) 71,620 1 10 (B) 2,922 13 10 (A) 501 16 9 (B) 115,336 19 8}	..	54,708 16 5	1,145 0 0	3,728 5 8	..	45,363 3 6	25,451 16 6		
17. Hindmarsh	(A) 20,523 4 4	103 4 3	2,285 13 1	..	..	..	20,626 8 7	2,285 13 1	265 13 9	..	236 3 0	..		
18. Karkaroo	(A) 320,303 15 9	..	..	21 18 0	{(A) 115,336 19 8 (B) 13,179 4 6}	..	320,303 15 9	..	1,937 1 3	..	85,346 3 10	41,264 17 1		

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

## DISTRICT BALANCE SHEETS AS AT 30TH JUNE, 1950.

District.	Liabilities.						Assets.									
	Capital borne by— (A) State, (B) District.	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.				
WATERWORKS DISTRICTS—continued.																
19. Kerang North-West Lakes	(A) 4,001	3	6	..	..	..	4,001	3	6	..	444	0	5			
20. Long Lake	(A) 175,751	12	5	..	{ (A) 83 3 9 (B) 93,416 14 2 }	..	175,751	12	5	..	148	0	3			
21. Millewa	(A) 496,403	11	8	..	{ (A) 29,289 10 10 (B) 253,526 0 8 }	..	496,403	11	8	..	4,695	6	2			
22. Millewa Central	(A) 173,130	18	6	..	{ (A) 9,567 8 2 (B) 219,009 5 5 }	..	173,130	18	6	..	13,413	4	5			
23. Ouyen	(A) 277,550	9	0	..	{ (A) 5,625 2 2 (B) 308,438 11 1 }	..	277,550	9	0	..	7,340	5	4			
24. Sea Lake	(A) 202,280	17	1	26	4 2	..	202,307	1	3	..	7,944	0	0			
25. Tyntynder	(A) 381,867	17	7	..	{ (A) 8,236 19 5 (B) 257,740 6 9 }	..	381,867	17	7	..	1,495	13	2			
26. Tyrrell	(A) 254,034	16	1	..	{ (A) 29,188 7 1 (B) 238,505 18 9 }	..	254,034	16	1	..	18,589	7	8			
27. Tyrrell West	(A) 162,185	2	10	..	{ (A) 16,240 1 9 (B) 180,240 8 3 }	..	162,185	2	10	..	299	15	1			
28. Upper Western Wimmera	(A) 89,753	19	5	..	{ (A) 10,013 19 9 (B) 755 11 0 }	..	89,753	19	5	..	609	6	4			
29. Upper Wimmera United	(A) 123,988	9	11	1,003	7 5	..	124,991	17	4	..	566	8	8			
30. Walpeup West	(A) 35,767	10	10	..	{ (A) 4,359 16 0 (B) 8,197 6 11 }	944	35,767	10	10	..	169	1	2			
31. Wycheproof	(A) 243,872	6	0	1,148	11 7	..	245,020	17	7	..	959	18	3			
32. Yelka	(A) 6,195	3	2	..	{ (A) 4,504 1 10 (B) 12,113 17 3 }	..	6,195	3	2	..	482	10	7			
Totals	(A) 3,208,295	18	1	2,664	4 5	944	3,210,960	2	6	..	76,882	7	2			
Grand Totals	{ (A) 4,915,022 12 7 (B) 237,538 18 5 }	22,659	15	0	90,840	18	5	5,174,518	4	8	88,590	0	9			
											£7,723,668 10s. 3d.					

## DISTRICT BALANCE SHEETS AS AT 30TH JUNE, 1950.

District.	Liabilities.						Assets.							
	Capital borne by— (A) State. (B) District.		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.		
												Loss since 30th June, 1938.	Interest and Other Losses prior to 30th June, 1938, Borne by State. (Act No. 5017).	
														£
£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.	
URBAN DISTRICTS.														
1. Allansford ..	{ (A) 2,136 0 4 (B) 815 15 0 }	24 17 11	186 3 5	6 18 4	..	90 16 0	2,574 11 4	186 3 5	23 13 11	76 2 4	..	..	..	
2. Antwerp ..	{ (A) 452 17 8 (B) 257 14 1 }	15 12 2	35 7 7	..	..	139 14 10	722 17 8	35 7 7	10 6 9	132 14 4	..	..	..	
3. Barwon Heads and Ocean Grove ..	{ (A) 44,894 12 5 (B) 7,823 10 4 }	389 13 10	2,453 9 2	4 15 10	..	2,598 18 2	53,207 16 7	2,453 9 2	870 6 0	1,733 8 0	..	..	..	
4. Berrillock ..	{ (A) 7,743 5 0 (B) 3 5 5 }	24 19 4	242 17 6	0 0 7	(A) 216 18 8	239 10 9	7,771 8 4	242 17 6	35 18 7	203 14 2	..	..	216 18 8	
5. Berwick ..	{ (A) 20,684 18 3 (B) 3,096 7 8 }	128 19 0	3,310 14 2	19 1 5	..	2,456 3 11	28,910 4 6	3,310 14 2	209 4 2	2,266 1 2	..	..	..	
6. Birregurra ..	{ (A) 32,017 12 9 (B) 6,792 6 0 }	..	155 18 6	9 11 8	(B) 443 12 8	..	32,017 12 9	155 18 6	178 1 5	..	275 2 11	..	..	
7. Brim ..	{ (A) 43,890 4 4 (B) 54,202 16 3 }	44 12 11	488 0 9	0 11 0	..	414 10 0	7,074 14 5	488 0 9	95 12 7	324 1 5	..	..	..	
8. Camperdown ..	{ (A) 1,850 15 2 (B) 4,271 12 5 }	1,850 15 2	7,806 3 6	6 5 0	(B) 122 14 1	284 0 7	90,943 15 9	7,806 3 6	412 19 8	..	..	..	..	
9. Chelsea-Frankston ..	{ (A) 133,570 9 0 (B) 13,720 8 6 }	427 12 5	32,367 9 9	26 19 3	(A) 9,188 12 3	22,825 11 5	377,914 15 4	32,367 9 9	3,538 16 0	19,314 0 8	..	..	9,188 12 3	
10. Cobden ..	{ (A) 12,829 4 0 (B) 9,380 12 9 }	458 8 5	1,885 3 0	4 13 9	(B) 470 13 0	..	26,866 1 6	1,885 3 0	395 10 5	..	221 15 9	..	..	
11. Cranbourne ..	{ (A) 593 11 5 (B) 2,163 9 2 }	63 11 9	1,508 2 7	..	(A) 538 9 1	1,488 17 2	10,037 15 11	1,508 2 7	41 1 2	1,447 16 0	..	..	538 9 1	
12. Culgoa ..	{ (A) 137,375 4 9 (B) 161,866 12 4 }	91 8 3	275 16 0	0 0 6	(B) 112 6 11	..	4,465 18 0	275 16 0	5 15 8	..	135 7 7	..	..	
13. Dandenong-Springvale ..	{ (A) 137,375 4 9 (B) 161,866 12 4 }	4,656 14 6	31,369 6 7	60 13 0	(A) 3,601 18 7	41,939 2 3	304,098 11 7	31,369 6 7	3,396 15 2	38,003 0 1	..	..	3,601 18 7	
14. Dimboola ..	{ (A) 10,850 1 6 (B) 19,025 4 10 }	420 19 5	..	3 6 1	..	2,317 13 10	19,872 10 0	..	963 13 9	1,412 19 8	..	..	..	
15. Dromana-Portsea ..	{ (A) 192,025 4 10 (B) 4,291 5 0 }	530 3 11	14,979 18 4	6 17 5	..	25,279 3 3	196,846 13 9	14,979 18 4	2,794 19 8	22,491 1 0	..	..	..	
16. Garvoc ..	{ (A) 7,959 16 0 (B) 5,653 5 8 }	..	..	..	..	..	1 16 9	..	..	..	..	..	..	
17. Jeparit ..	{ (A) 2,335 18 5 (B) 2,335 18 5 }	286 16 6	201 5 10	0 1 0	..	1,178 0 9	13,899 18 2	201 5 10	245 2 0	932 19 9	..	..	..	
18. Longwarry ..	{ (A) 2,335 18 5 (B) 2,335 18 5 }	335 18 5	1,455 8 6	0 6 8	..	2,426 18 2	12,320 17 6	1,455 8 6	271 12 2	2,155 12 8	..	..	..	
19. Marnoo ..	{ (A) 2,819 16 1 (B) 1,340 11 2 }	78 19 3	659 1 10	6 2 0	..	574 8 2	4,239 6 6	659 1 10	58 1 2	522 9 0	..	..	..	
20. Merbein ..	{ (A) 18,348 17 8 (B) 4,029 19 8 }	321 0 0	602 7 1	2 11 3	{ (A) 519 10 1 (B) 861 8 7 }	..	22,689 0 4	602 7 1	569 12 11	..	304 18 11	510 10 1	..	
21. Minyip ..	{ (A) 7,323 9 6 (B) 3,060 18 6 }	212 1 11	229 6 2	4 18 0	..	234 12 10	10,556 1 5	229 6 2	151 15 4	128 3 6	..	..	..	
22. Mornington ..	{ (A) 25,460 13 2 (B) 52,670 1 6 }	1,765 19 4	8,892 13 11	55 2 5	..	13,266 15 1	83,760 19 0	8,892 13 11	1,514 5 0	11,943 7 6	..	..	..	
23. Nar-Nar-Goon and Tynong ..	{ (A) 860 19 7 (B) 4,057 19 0 }	..	..	..	..	..	140 9 1	..	..	..	..	..	..	
24. Natimuk ..	{ (A) 860 19 7 (B) 4,057 19 0 }	136 8 9	758 19 0	..	..	264 4 4	5,004 6 4	758 19 0	144 18 2	170 2 2	..	..	..	
25. Officer ..	{ (A) 9,499 4 6 (B) 9,586 15 2 }	..	..	..	..	..	850 4 6	..	..	..	..	..	..	
26. Pakenham ..	{ (A) 9,499 4 6 (B) 9,586 15 2 }	395 6 3	3,389 19 2	16 0 3	..	2,330 8 10	19,481 5 11	3,389 19 2	72 13 2	3,273 15 11	..	..	..	
27. Pimpitoto ..	{ (A) 5,331 1 5 (B) 1,288 15 10 }	..	..	0 7 11	..	..	..	..	0 3 4	0 1 6	..	..	..	
28. Pyramid Hill ..	{ (A) 5,331 1 5 (B) 1,288 15 10 }	100 16 6	465 19 10	..	..	1,117 13 0	6,710 6 9	465 19 10	96 6 3	1,031 12 9	..	..	..	

Note—Urban Districts Balance Sheets continued on next page.

## DISTRICT BALANCE SHEETS AS AT 30TH JUNE, 1950.

District.	Liabilities.					Assets.								
	Capital borne by— (A) State. (B) District.	Redemption Account.	Depreciation Account.	Sundry Creditors.	Accumulated Deficiency Chargeable to— (A) State Account. (B) District 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.					Loss since 30th June, 1938. Borne by State. (Act No. 5017).	£ s. d.	
	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.
29. Queenscliff and Lonsdale	{(A) 88,939 2 1 (B) 16,089 2 6}	763 18 2	5,156 9 3	11 3 11	(B) 7,653 7 5	..	105,792 2 9	5,156 9 3	1,271 17 1	..	..	6,392 14 3	..	..
30. Rainbow	{(A) 3,979 19 8 (B) 7,515 12 10}	294 6 1	690 17 0	3 9 5	..	4,459 3 1	11,789 18 7	690 17 0	223 11 6	4,239 1 0	..	..	..	..
31. Rupanyup	{(A) 6,741 4 4 (B) 4,137 14 8}	205 6 10	716 11 4	0 16 9	(B) 35 1 7	71 10 6	11,084 5 10	716 11 4	107 8 10	..	..	..	..	..
32. Somerville	{(A) 3,248 19 7 (B) 4,581 15 3}	169 0 0	872 0 5	..	..	743 11 7	7,966 4 3	872 0 5	49 9 0	727 13 2	..	..	..	..
33. South Frankston	{(A) 25,093 14 7 (B) 31,012 13 0}	982 10 5	3,594 11 10	2 8 7	..	5,526 15 1	48,379 8 7	3,594 11 10	230 9 8	5,298 14 0	..	..	..	..
34. Terang	{(A) 27,846 15 8 (B) 4,940 8 3}	1,066 2 0	6,214 15 2	7 4 2	(B) 433 1 2	..	59,925 10 8	6,214 15 2	243 8 10	..	..	246 16 6	..	..
35. Watchem	{(A) 27,846 15 8 (B) 4,940 8 3}	37 13 5	381 7 5	1 3 11	{(A) 140 17 2 (B) 134 19 1}	..	5,101 0 3	381 7 5	25 16 0	..	..	110 7 0	149 17 2	..
Totals ..	{(A) 1,008,435 10 4 (B) 569,587 2 4}	20,124 8 10	131,346 4 7	261 4 1	{(A) 14,197 5 10 (B) 10,316 19 6}	133,268 3 7	1,597,628 10 7	131,346 4 7	18,248 19 4	118,428 12 9	7,687 6 0	14,197 5 10	7,687 6 0	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. 4313.)

36. Angelsea	{(A) 21,415 10 0 (B) 29 10 1}	1 17 1	847 13 1	0 4 1	(A) 2,333 3 5	..	21,446 8 9	847 13 1	67 13 7	..	627 6 7	1,638 15 9
37. Beulah	{(A) 7,668 18 5 (B) 2 13 2}	10 5 8	265 1 2	1 0 0	(A) 96 15 2	755 14 3	7,681 17 3	265 1 2	315 17 5	440 16 10	..	96 18 2
38. Birelip	{(A) 15,176 2 8 (B) 2 13 2}	12 12 3	1,223 11 2	0 17 0	{(A) 2,548 4 1 (B) 564 5 4}	..	15,188 14 11	1,223 11 2	98 19 11	..	2,141 0 1	873 6 5
39. Bittern	{(A) 2,987 12 3 (B) 15 11 3}	3 19 1	401 2 9	..	(A) 63 10 9	..	3,007 0 7	401 2 9	44 1 3	..	19 11 6	..
40. Bunyip	{(A) 11,709 11 3 (B) 26 0 11}	2 11 0	1,894 6 4	0 2 8	(A) 474 1 9	1,781 18 8	11,735 3 2	1,894 6 4	179 3 11	1,602 17 5	..	474 1 9
41. Carwarp	{(A) 2,477 14 6 (B) 635 19 0}	..	137 5 4	..	{(A) 234 7 10 (B) 318 7 11}	301 9 4	635 19 0	137 5 4	854 5 1	..	..	..
42. Chillingollah	{(A) 2,815 14 2 (B) 16 19 0}	8 14 5	140 16 9	..	{(A) 388 2 5 (B) 682 13 10}	..	2,486 8 11	140 16 9	754 4 5	..	97 4 5	218 18 1
43. Chinkapook	{(A) 10,483 17 1 (B) 2,282 4 3}	123 11 11	1,177 5 0	2 19 6	(A) 967 13 10	153 0 0	2,815 14 2	138 14 5	57 10 2	..	821 19 5	137 15 3
44. Crib Point	{(A) 16,406 18 4 (B) 38 2 0}	0 4 5	166 16 10	..	{(A) 255 14 8 (B) 68 7 0}	142 12 9	12,889 13 3	1,177 5 0	411 14 2	..	..	..
45. Doon	{(A) 681 4 0 (B) 16 19 0}	8 6 11	1,256 11 5	3 11 0	(A) 130 4 9	1,002 6 0	698 7 5	1,256 11 5	29 1 0	113 11 9	..	130 4 9
46. Drysdale	{(A) 9,130 7 11 (B) 27 3 5}	12 6 2	1,439 5 2	1 13 6	(A) 326 16 1	941 9 1	16,453 5 4	1,439 5 2	255 19 10	749 19 1	..	326 16 1
47. Garfield	{(A) 14,992 6 10 (B) 6 4 10}	12 1 0	2,060 2 9	..	(A) 381 5 7	..	9,169 17 6	1,439 5 2	27 4 7	915 18 0	..	381 5 7
48. Hastings	{(A) 10,679 0 8 (B) 23 15 5}	30 5 11	845 19 4	0 10 6	(A) 571 8 4	1,730 13 0	15,010 12 8	2,060 2 9	59 3 4	..	63 11 3	448 13 9
49. Hopetoun	{(A) 10,679 0 8 (B) 23 15 5}	30 5 11	845 19 4	0 10 6	(A) 580 2 10	1,730 13 0	10,733 1 11	845 19 4	214 12 7	1,516 10 11	..	580 2 10

50. Jung Jung	..	{(A) (B)}	3,456 2 4 1 12 6	..	662 3 1	..	{(A) (B)}	1,416 19 4 20 1 0	..	3,457 14 10	662 3 1	13 2 5	..	883 15 0	540 2 11
51. Koondrook	..	{(A) (B)}	6,165 7 11	..	773 2 9	..	{(A) (B)}	3,299 5 7 195 2 9	..	6,165 7 11	773 2 9	286 14 7	..	2,800 2 8	408 17 3
52. Lake Boga	..	{(A) (B)}	6,212 0 6 5 11 10	1 6 2	274 15 11	1 7 11	{(A) (B)}	3,246 12 5 404 7 6	..	6,307 11 9	274 15 11	224 7 11	..	2,870 11 8	558 14 5
53. Lalbert	..	{(A) (B)}	4,543 2 9 4,981 11 10	..	461 3 11	..	{(A) (B)}	1,187 3 11 350 14 8	..	4,677 6 5	461 3 11	134 18 6	..	1,359 11 6	43 8 7
54. Laseelles	..	{(A) (B)}	4,487 9 6 4,618 18 0	5 13 7	123 9 8	0 0 6	{(A) (B)}	662 1 11 30 4 4	..	4,510 1 1	123 9 8	87 18 10	..	192 12 0	411 15 11
55. Manangatang	..	{(A) (B)}	3,688 16 7 1,635 6 3	107 2 3	..	0 2 2	{(A) (B)}	981 10 1 610 13 4	..	5,418 5 7	..	186 19 7	..	807 12 2	..
56. Merinur	..	{(A) (B)}	1,757 1 4 4 6 8	0 0 1	165 16 1	..	{(A) (B)}	131 15 6 1,717 0 9	..	1,761 8 0	165 16 1	462 17 1	..	279 11 10	..
57. Mitiamo	..	{(A) (B)}	2,410 16 2	2,982 17 4	515 2 9	0 10 0	{(A) (B)}	..	..	5,393 13 6	515 2 9	7 0 1	..	1,770 10 8	..
58. Nandaly	..	{(A) (B)}	2,331 8 5 3 5 0	..	32 11 1	..	{(A) (B)}	589 2 2 51 4 2	..	2,334 13 5	32 11 1	26 15 2	..	611 11 2	..
59. Newstead	..	{(A) (B)}	5,800 5 2 1,763 13 10	119 16 3	769 15 8	..	{(A) (B)}	2,193 12 10 36 15 8	..	7,622 4 8	769 15 8	26 0 10	..	2,265 18 3	..
60. Nullawil	..	{(A) (B)}	3,370 15 4 280 16 6	40 17 2	70 2 4	..	{(A) (B)}	168 10 5	..	3,686 18 2	70 2 4	49 10 0	..	124 11 3	..
61. Nyah ..	..	{(A) (B)}	691 7 6	2 8 10	408 3 1	0 11 0	{(A) (B)}	48 2 10	119 18 3	693 16 4	408 3 1	58 15 4	61 13 11	..	48 2 10
62. Nyah West	..	{(A) (B)}	6,125 3 0	0 8 10	1,598 17 3	1 16 8	{(A) (B)}	..	1,263 17 7	6,125 11 10	1,598 17 3	240 12 8	1,025 1 7	..	..
63. Ouyen	..	{(A) (B)}	21,323 8 2 60 15 3	88 1 3	776 7 10	1 10 4	{(A) (B)}	1,107 4 3	..	21,472 0 1	776 7 10	579 1 1	..	529 18 1	..
64. Patchewollock	..	{(A) (B)}	4,037 10 10 1 12 6	0 1 4	31 2 11	2 9 1	{(A) (B)}	13 8 11	344 19 3	4,039 4 8	31 2 11	360 17 3	..	..	..
65. Piangil	..	{(A) (B)}	7,435 9 4	..	33 3 3	2 15 0	{(A) (B)}	889 17 1	..	7,435 9 4	33 3 3	568 18 3	..	323 13 10	..
66. Portarlington	..	{(A) (B)}	32,339 10 0 77 14 6	1 19 5	2,849 3 6	4 12 8	{(A) (B)}	4,842 6 2 101 9 6	..	32,418 2 7	2,849 3 6	177 13 9	..	3,047 3 4	1,724 12 7
67. Quambatook	..	{(A) (B)}	4,861 6 8 3 4 11	19 18 1	106 16 5	4 2 0	{(A) (B)}	..	302 18 8	4,884 9 8	106 16 5	89 3 5	217 17 3	..	..
68. Sea Lake	..	{(A) (B)}	6,182 6 6 1,533 3 4	145 6 5	895 12 5	5 7 0	{(A) (B)}	..	234 14 4	7,826 5 3	895 12 5	251 11 1	..	..	..
69. Speed	..	{(A) (B)}	2,852 1 7 0 17 9	..	386 4 5	0 6 0	{(A) (B)}	278 3 1 217 12 5	..	2,852 19 4	386 4 5	95 16 11	..	400 4 7	..
70. Tempy	..	{(A) (B)}	2,625 13 7 17 13 7	0 4 5	339 17 7	0 1 3	{(A) (B)}	453 4 11 47 13 2	..	2,643 7 7	339 17 7	351 4 11	..	149 18 5	..
71. Torquay	..	{(A) (B)}	28,645 5 8 143 15 10	42 8 0	1,466 1 2	5 9 10	{(A) (B)}	2,135 18 1	..	38,831 1 10	1,466 1 2	298 6 6	..	88 1 6	1,755 7 7
72. Ultima	..	{(A) (B)}	6,561 0 8 17 6 8	0 4 5	42 7 2	1 1 4	{(A) (B)}	1,272 4 6 245 10 3	..	6,578 7 4	42 7 2	430 10 7	..	1,088 9 11	..
73. Waikatie	..	{(A) (B)}	2,520 14 4	..	265 7 5	0 0 6	{(A) (B)}	1,235 3 4 623 5 11	..	2,520 14 4	265 7 5	1,070 2 11	..	289 18 8	498 8 2
74. Walpeup	..	{(A) (B)}	2,043 7 9 24 3 5	6 10 3	195 8 2	..	{(A) (B)}	254 10 5	..	2,073 18 2	195 8 2	94 9 3	..	160 4 5	284 19 8
75. Werrimull	..	{(A) (B)}	4,852 15 4 1 12 6	3 3 6	492 11 0	..	{(A) (B)}	860 12 7 150 10 8	..	4,857 11 4	492 11 0	649 4 10	..	76 18 9	..
76. Wonthaggi	..	{(A) (B)}	66,824 5 10 9,091 16 11	386 10 8	4,840 18 2	101 4 10	{(A) (B)}	..	5,844 4 2	76,289 1 4	4,840 18 2	1,646 14 1	4,322 7 0	..	..
77. Woonelang	..	{(A) (B)}	9,233 14 5 15 6 8	37 2 10	986 13 4	0 4 1	{(A) (B)}	805 1 5	582 0 11	9,286 3 11	986 13 4	46 17 10	535 7 2	..	805 1 5
78. Woornen	..	{(A) (B)}	5,510 8 8 582 7 8	82 6 6	277 1 2	2 5 4	{(A) (B)}	138 17 7 305 3 1	..	6,125 2 10	277 1 2	135 3 1	..	311 2 11	..
79. Wycheproof	..	{(A) (B)}	18,316 11 6	16 12 0	2,348 1 0	0 9 9	{(A) (B)}	1,162 15 3 151 3 8	..	18,333 3 6	2,348 1 0	98 9 9	..	1,215 18 6	..
80. Yaapecet	..	{(A) (B)}	2,297 15 9 3 14 4	3 16 8	148 4 5	2 19 6	{(A) (B)}	216 11 3 151 18 5	..	2,305 6 9	148 4 5	171 15 5	..	199 13 9	..
Totals	..	{(A) (B)}	416,761 0 2 17,943 11 11	4,317 3 11	34,330 16 5	152 15 2	{(A) (B)}	41,138 8 11 4,847 17 0	15,501 16 3	438,879 8 2	34,330 16 5	12,293 5 2	11,525 2 2	25,558 8 1	12,406 9 9
Grand Totals	..	{(A) (B)}	1,425,196 10 6 587,530 14 3	24,441 12 9	165,677 1 0	413 19 3	{(A) (B)}	55,335 14 9 15,164 16 6	148,769 19 10	2,036,507 18 9	165,677 1 0	30,542 4 6	129,953 14 11	33,245 14 1	26,603 15 7

\$2,422,530 8s. 10d.

\$2,422,530 8s. 10d.

DISTRICT BALANCE-SHEETS AS AT 30TH JUNE, 1950.

District.	Liabilities.						Assets.										
	Capital borne by State.	Redemption Account.	Depreciation Account.	Sundry Creditors.	Accumulated Deficiency Chargeable to		Profit and Loss Account.	Works at Cost.	Water Supply Works Depreciation Fund.	Sundry Debtors.	Accumulated Surplus Credited to District Account.	Profit and Loss Account.					
					(A) State Account.	(B) District Account.						Loss since 30th June, 1938.	Interest and Other Losses prior to 30th June, 1938, Borne by State. (Act No. 5017.)				
														Gain.			
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.		
1. Cardinia	105,404	3	3	13	8	10	{ (A) 3,203 19 2 } { (B) 10,875 18 3 }	28 13 4	105,404	3	3	..	10,918	0	5*	3,303 19 2	
2. Kanyapella	3,885	1	5	64	4	2	..	1,807 11 11	3,949 5 7	66	4	8	1,741	7	9	..	
3. Loch Garry	18,621	18	11	..	..	..	..	3,407 19 9	18,621 18 11	146	2	10	3,261	16	11	..	
4. Lower Kooverup	354,906	12	5	6	18	7	{ (A) 7,949 1 8 } { (B) 19,458 7 2 }	..	354,906 12 5	1,043	2	2	..	9,422	3	7	7,949 1 8
Totals	482,907	16	0	64	4	2	{ (A) 11,253 0 10 } { (B) 21,334 5 5 }	5,244 5 0	482,972 0 2	12,173	10	1	5,003	4	8	11,253 0 10	
£520,823 19s. 4d.																	
£520,823 19s. 4d.																	

\* Includes £9,885 Capitalized Repairs and Maintenance—Bridges.



## SUMMARY OF DISTRICT BALANCE-SHEETS AS AT 30TH JUNE, 1950.

District.	Liabilities.										Assets.									
	Capital borne by— (A) State. (B) District.		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.
Central Plant Workshops ..	{ (A) 116,757 11 7 (B) 17,636 8 0 (C) 293,533 5 2 (D) 15,890,201 13 0	{ 122 10 0 10,190 5 5 26,089 8 5 865 15 1	{ £ s. d. 2,809 7 6 58,910 4 2 199,776 19 3 7,609 5 11	{ £ s. d. 84 15 11 526 3 0 18 11 11 507 6 8	{ (A) 933,659 4 4 (B) 15,972 12 10 (C) 862,335 12 2 (D) 274,994 16 8 (E) 4,018 17 0 (F) 755 17 3 (G) 2,157,827 11 10 (H) 236,502 8 8 (I) 55,335 14 9 (J) 15,164 16 6 (K) 11,253 0 10 (L) 21,334 5 5 (M) 1,555 11 3	{ £ s. d. 32,748 17 11 (B) 933,659 4 4 (C) 15,972 12 10 (D) 862,335 12 2 (E) 274,994 16 8 (F) 4,018 17 0 (G) 755 17 3 (H) 2,157,827 11 10 (I) 236,502 8 8 (J) 55,335 14 9 (K) 15,164 16 6 (L) 11,253 0 10 (M) 21,334 5 5 (N) 1,555 11 3	{ £ s. d. .. .. 122,331 12 4 9,907 1 0 82,668 18 8 5,174,518 4 8 148,769 19 10 5,244 5 0 .. 348,921 16 10	{ £ s. d. 134,394 9 8 2,157,503 4 1 15,916,291 1 5 83,059 17 40 5,174,518 4 8 2,036,507 18 9 482,972 0 2 25,429 2 0 26,011,275 17 9	{ £ s. d. 2,809 7 6 58,910 4 2 199,776 19 3 7,609 5 11 90,840 18 5 165,677 1 0 .. .. 525,623 16 3	{ £ s. d. .. .. 94,879 3 10 933 0 7 88,599 0 9 30,542 4 6 12,173 10 1* 601 2 7 250,406 2 1†	{ £ s. d. .. .. 92,857 4 9 9,111 9 6 54,718 14 10 129,953 14 11 5,003 4 8 .. 291,644 8 8	{ £ s. d. 17,084 14 4 124,394 2 10 400,258 12 6 3,366 15 4 1,637,303 3 5 33,245 14 1 9,422 3 7 958 2 5 2,226,033 8 6	{ £ s. d. .. 828,373 18 10 672,193 3 1 1,337 14 5 677,638 8 2 26,603 15 7 11,253 0 10 .. 2,217,450 0 11							
Totals ..	{ (A) 24,787,528 8 2 (B) 1,150,863 16 3	{ 84,433 10 10 525,623 16 3	{ £ s. d. 1,574 18 5 5	{ £ s. d. .. ..	{ (A) 4,024,430 0 11 (B) 499,059 6 6	{ £ s. d. 348,921 16 10	{ £ s. d. 26,011,275 17 9	{ £ s. d. 525,623 16 3	{ £ s. d. 250,406 2 1†	{ £ s. d. 291,644 8 8	{ £ s. d. 2,226,033 8 6	{ £ s. d. 2,217,450 0 11								
	£31,522,433 14s. 2d.										£31,522,433 14s. 2d.									

\* Includes £9,885, Capitalized Repairs and Maintenance on Bridges—(Cardina).

† Exclusive of Divisions Branch.



## STATEMENT OF REVENUE SETTING OUT ARREARS AS AT 1ST JULY, 1949, AND AS AT 30TH JUNE, 1950.

	Total.	Water Act 1940 (No. 4740), Sec. 3. Consolidated Arrears.		General Rate.		Irrigation Charge.		Drainage Rate.		Flood Protection Charge.		Sales of Water.		Mis- cellaneous.
		£	£	Rate.	Interest.	Charge.	Interest.	Rate.	Interest.	Charge.	Interest.	Sales.	Interest.	
Arrears as at 1st July, 1949 .. ..	£	272,056	112,641	62,556	12,019	11,466	867	2,370	325	1,108	126	55,342	662	2,216
Assessments 1949-50 .. ..		800,038	..	365,799	..	381,972	..	44,891	..	7,376	..	..	..	..
Additional Water Sales, and Interest Charges to 30th June, 1950 .. ..		217,138	..	..	3,825	..	1,126	..	174	..	82	150,766	457	59,489
Total Amount Collectable, 1949-50 .. ..		1,289,232	112,641	428,355	15,844	393,438	1,993	47,261	499	8,484	208	206,108	1,119	61,705
Deduct—														
(i) Revenue Collected 1949-50 .. ..		1,038,695	30,607	370,243	5,359	362,076	702	43,495	167	7,535	74	157,103	454	59,344
(ii) Credits Absorbed .. ..		3,661	3	829	3	300	..	22	..	18	..	398	..	2,088
Balance .. ..		246,876	82,031	57,283	10,482	31,062	1,291	3,744	332	931	134	48,607	665	273
Add—Amounts Overpaid .. ..		3,482	..	668	8	134	..	62	..	19	..	589	1	1,993
Total — Gross Arrears at 30th June, 1950 .. ..		250,358	82,031	57,951	10,490	31,196	1,291	3,806	332	950	134	49,196	666	2,266
Deduct—Amounts recommended for Writing off 1949-50 .. ..		24,168	4,237	7,634	1,243	4,594	2	314	3	2	..	535	121	1,479
BALANCE — Net Arrears as at 30th June, 1950 .. ..		226,190	77,794	50,317	9,247	26,602	1,289	3,492	329	948	134	48,661	545	787

This Statement is subject to Audit and minor adjustments.

# WATER SUPPLY WORKS DEPRECIATION ACCOUNTS AS AT 30TH JUNE, 1950.

District.	Balance at 1st July, 1949.	Amounts Paid into Account 1949-50.	Interest Credited 1949-50.	Total.	Expenditure 1949-50.	Balance in Account at 30th June, 1950.
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
IRRIGATION AND WATER SUPPLY DISTRICTS.						
Bacchus Marsh .. .. .	265 7 3	18 0 0	6 12 8	289 19 11	..	289 19 11
Boort .. .. .	414 0 3	*36 6 7	10 7 0	460 13 10	..	460 13 10
Calivil .. .. .	179 6 7	13 0 0	4 9 8	196 16 3	..	196 16 3
Cohuna .. .. .	333 3 5	..	3 10 1	336 13 6	..	336 13 6
Dingee .. .. .	138 6 7	10 0 0	3 9 2	151 15 9	..	151 15 9
Katandra .. .. .	166 13 6	12 0 0	4 3 4	182 16 10	..	182 16 10
Kerang .. .. .	94 11 11	*11 13 8	2 7 4	108 12 11	..	108 12 11
Maffra-Sale .. .. .	1,930 17 6	*141 6 0	48 5 5	2,120 8 11	..	2,120 8 11
Murray Valley .. .. .	580 8 3	*97 6 9	14 10 2	692 5 2	..	692 5 2
North Shepparton .. .. .	393 19 2	26 0 0	9 17 0	429 16 2	..	429 16 2
Nyah (I. and W.S.) .. .. .	9,003 5 10	672 0 0	225 1 8	9,900 7 6	..	9,900 7 6
Nyah (Drainage) .. .. .	711 13 7	95 0 0	17 15 10	824 9 5	..	824 9 5
Red Cliffs-Merbein (I. and W.S.) .. .. .	108,335 0 11	12,152 0 0	2,708 7 6	123,195 8 5	Cr.2,255 8 4	125,450 16 9
Red Cliffs-Merbein (Drainage) .. .. .	18,454 19 5	1,414 0 0	461 7 6	20,330 6 11	..	20,330 6 11
Robinvale .. .. .	9,215 0 5	3,720 0 0	230 7 6	13,165 7 11	..	13,165 7 11
Rochester .. .. .	1,949 19 7	*159 1 5	48 15 0	2,157 16 0	..	2,157 16 0
Rodney .. .. .	2,381 12 8	*215 7 6	59 10 10	2,656 11 0	..	2,656 11 0
Shepparton .. .. .	1,127 11 0	*96 3 2	28 3 9	1,251 17 11	Cr. 95 3 3	1,347 1 2
South Shepparton .. .. .	137 12 11	10 0 0	3 8 10	151 1 9	..	151 1 9
Swan Hill (I. and W.S.) .. .. .	5,662 5 7	*387 4 8	128 18 0	6,178 8 3	..	6,178 8 3
Swan Hill (Drainage) .. .. .	2,120 6 3	213 0 0	53 0 2	2,386 6 4	..	2,386 6 4
Tongala-Stanhope .. .. .	1,679 4 10	*122 19 7	41 19 7	1,844 4 0	..	1,844 4 0
Tragowel Plains .. .. .	946 12 8	69 0 0	23 13 4	1,039 6 0	..	1,039 6 0
Tresco .. .. .	5,358 1 4	417 0 0	133 19 0	5,909 0 4	..	5,909 0 4
Werribee .. .. .	1,257 16 3	*176 11 6	31 8 11	1,465 16 8	..	1,465 16 8
Totals .. .. .	172,837 17 7	20,285 0 10	4,303 9 3	197,426 7 8	Cr.2,350 11 7	199,776 19 3

\* Direct Contributions to Depreciation Fund—Boert, £9 6s. 7d.; Kerang, £11 13s. 8d.; Maffra-Sale, £11 6s.; Murray Valley, £97 6s. 9d.; Rochester, £42 1s. 5d.; Rodney, £87 7s. 6d.; Shepparton, £49 3s. 2d.; Swan Hill, £47 4s. 8d.; Tongala-Stanhope £16 19s. 7d.; Werribee £94 11s. 6d.

## URBAN DIVISIONS OF IRRIGATION AND WATER SUPPLY DISTRICTS.

Bacchus Marsh .. .. .	1,682 2 7	126 0 0	42 1 1	1,850 3 8	..	1,850 3 8
Cohuna .. .. .	940 1 9	99 0 0	23 10 1	1,062 11 10	1 1 8	1,061 10 2
Corop .. .. .	82 19 11	6 0 0	2 1 6	91 1 5	..	91 1 5
Dingee .. .. .	106 13 3	14 0 0	2 13 4	123 6 7	..	123 6 7
Heyfield .. .. .	1,586 0 7	115 0 0	39 13 0	1,740 13 7	..	1,740 13 7
Leitchville .. .. .	621 4 0	45 0 0	15 10 5	681 14 5	206 10 0	475 4 5
Lockington .. .. .	415 1 11	61 0 0	10 7 7	486 9 6	4 5 6	482 4 0
Macorna .. .. .	..	26 0 0	..	26 0 0	..	26 0 0
Murrabit .. .. .	396 10 10	33 0 0	9 18 3	439 9 1	..	439 9 1
Red Cliffs .. .. .	467 8 4	193 0 0	11 13 9	672 2 1	..	672 2 1
Robinvale .. .. .	..	161 0 0	..	161 0 0	..	161 0 0
Stanhope .. .. .	394 7 6	35 0 0	9 17 2	439 4 8	..	439 4 8
Tallygaroopna .. .. .	..	47 6 3	..	47 6 3	..	47 6 3
Totals .. .. .	6,692 10 8	961 6 3	167 6 2	7,821 3 1	211 17 2	7,609 5 11

## WATERWORKS DISTRICTS.

Carwarp .. .. .	2,476 13 1	240 0 0	61 18 4	2,778 11 5	22 9 6	2,756 1 11
Carwarp Central .. .. .	263 19 2	20 0 0	6 8 6	290 7 8	..	290 7 8
Coreena .. .. .	1,000 0 0	120 0 0	25 0 0	1,145 0 0	..	1,145 0 0
Harcourt .. .. .	103 17 9	25 0 0	2 11 11	131 9 8	..	131 9 8
Hindmarsh .. .. .	2,099 1 2	139 0 0	47 11 11	2,285 13 1	..	2,285 13 1
Long Lake .. .. .	2,248 11 8	175 0 0	56 4 4	2,479 16 0	..	2,479 16 0
Millewa .. .. .	35,288 1 10	2,988 0 0	882 4 1	39,158 5 11	2,549 7 9	36,608 18 2
Millewa Central .. .. .	4,318 12 2	1,224 0 0	107 19 4	5,650 11 6	..	5,650 11 6
Mornington Peninsula .. .. .	110 3 4	186 0 0	2 15 1	298 18 5	..	298 18 5
Otway .. .. .	21,416 16 10	1,924 0 0	535 8 5	23,876 5 3	..	23,876 5 3
Ouyen .. .. .	2,415 19 11	188 0 0	60 8 0	2,664 7 11	..	2,664 7 11
Tyntynder .. .. .	271 19 1	21 0 0	6 16 0	299 15 1	..	299 15 1
Tyrrell .. .. .	552 10 1	43 0 0	13 16 3	609 6 4	..	609 6 4
Tyrrell West .. .. .	513 11 10	40 0 0	12 16 10	566 8 8	..	566 8 8
Upper Western Wimmera .. .. .	169 1 2	..	..	169 1 2	..	169 1 2
Walpeup West .. .. .	1,242 16 10	260 0 0	31 1 5	1,533 18 3	1,051 7 8	482 10 7
Western Wimmera .. .. .	7,651 3 0	595 0 0	191 5 7	8,437 8 7	..	8,437 8 7
Wimmera United .. .. .	440 8 3	2,993 0 0	11 0 2	3,444 8 5	1,224 0 4	2,220 8 1
Totals .. .. .	82,583 7 2	11,181 0 0	2,055 6 2	95,819 13 4	4,847 5 3	90,972 8 1

## URBAN DISTRICTS OF WATERWORKS DISTRICTS.

Allansford .. .. .	162 2 4	20 0 0	4 1 1	186 3 5	..	186 3 5
Anglesea .. .. .	772 6 11	56 0 0	19 6 2	847 13 1	..	847 13 1
Antwerp .. .. .	32 13 9	2 0 0	0 13 10	35 7 7	..	35 7 7
Barwon Heads and Ocean Grove .. .. .	2,445 19 6	279 0 0	61 3 0	2,786 2 6	332 13 4	2,453 9 2
Berriwillock .. .. .	221 6 10	16 0 0	5 10 8	242 17 6	..	242 17 6
Berwick .. .. .	2,973 7 6	263 0 0	74 6 8	3,310 14 2	..	3,310 14 2
Beulah .. .. .	236 3 1	23 0 0	5 18 1	265 1 2	..	265 1 2
Birchip .. .. .	1,137 2 7	84 0 0	28 8 7	1,249 11 2	26 0 0	1,223 11 2
Birregurra .. .. .	77 0 0	77 0 0	1 18 6	155 18 6	..	155 18 6
Bittern .. .. .	358 3 8	34 0 0	8 19 1	401 2 9	..	401 2 9
Brim .. .. .	446 6 6	31 0 0	10 14 3	488 0 9	..	488 0 9

## WATER SUPPLY WORKS DEPRECIATION ACCOUNTS AS AT 30TH JUNE, 1950—continued.

District.	Balance at 1st July, 1949.	Amounts Paid into Account 1949-50.	Interest Credited 1949-50.	Total.	Expenditure 1949-50.	Balance in Account at 30th June, 1950.
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
URBAN DISTRICTS OF WATERWORKS DISTRICTS—continued.						
Bunyip .. .. .	1,707 12 6	144 0 0	42 13 10	1,894 6 4	..	1,894 6 4
Camperdown .. .. .	6,993 6 10	638 0 0	174 16 8	7,806 3 6	..	7,806 3 6
Carwarp .. .. .	129 5 0	6 0 0	2 0 4	137 5 4	..	137 5 4
Chelsea-Frankston .. .. .	32,155 17 10	3,458 0 0	803 17 11	36,417 15 9	4,050 6 0	32,367 9 9
Chillingollah .. .. .	130 3 0	8 0 0	2 13 9	140 16 9	..	140 16 9
Chinkapook .. .. .	79 9 5	8 0 0	1 19 9	89 9 2	Cr. 49 5 3	138 14 5
Cobden .. .. .	1,687 19 0	155 0 0	42 4 0	1,885 3 0	..	1,885 3 0
Coliban .. .. .	55,731 1 9	7,691 0 0	1,393 5 7	64,815 7 4	6,621 17 2	58,193 10 2
Cranbourne .. .. .	1,372 16 2	101 0 0	34 6 5	1,508 2 7	..	1,508 2 7
Crib Point .. .. .	1,022 13 8	129 0 0	25 11 4	1,177 5 0	..	1,177 5 0
Culgoa .. .. .	251 11 6	18 0 0	6 4 6	275 16 0	..	275 16 0
Dandenong-Springvale .. .. .	28,937 6 7	2,320 0 0	723 8 8	31,980 15 3	611 8 8	31,369 6 7
Dimboola .. .. .	..	621 10 4	..	621 10 4	621 10 4	..
Dooen .. .. .	152 0 10	11 0 0	3 16 0	166 16 10	..	166 16 10
Dromana-Portsea .. .. .	13,116 19 10	1,535 0 0	327 18 6	14,979 18 4	..	14,979 18 4
Drysdale .. .. .	1,144 18 11	83 0 0	28 12 6	1,256 11 5	..	1,256 11 5
Garfield .. .. .	1,295 17 3	111 0 0	32 7 11	1,439 5 2	..	1,439 5 2
Hastings .. .. .	1,852 16 4	161 0 0	46 6 5	2,060 2 9	..	2,060 2 9
Hopetoun .. .. .	765 16 5	61 0 0	19 2 11	845 19 4	..	845 19 4
Jeparit .. .. .	286 6 10	39 0 0	7 3 2	332 10 0	131 4 2	201 5 10
Jung Jung .. .. .	602 2 0	45 0 0	15 1 1	662 3 1	..	662 3 1
Koondrook .. .. .	803 9 4	64 0 0	20 1 9	887 11 1	114 8 4	773 2 9
Lake Boga .. .. .	884 12 4	68 0 0	21 16 10	974 9 2	699 13 3	274 15 11
Lalbert .. .. .	408 19 5	42 0 0	10 4 6	461 3 11	..	461 3 11
Lascelles .. .. .	99 19 8	21 0 0	2 10 0	123 9 8	..	123 9 8
Longwarry .. .. .	1,309 13 8	113 0 0	32 14 10	1,455 8 6	..	1,455 8 6
Manangatang .. .. .	150 16 5	106 12 4	3 15 5	261 4 2	261 4 2	..
Marong .. .. .	532 17 11	39 0 0	13 6 5	585 4 4	..	585 4 4
Marnoo .. .. .	614 13 7	33 0 0	11 8 3	659 1 10	..	659 1 10
Merbein .. .. .	780 0 7	137 0 0	19 10 0	936 10 7	334 3 6	602 7 1
Meringur .. .. .	218 7 2	13 0 0	4 8 3	235 15 5	69 19 4	165 16 1
Minyip .. .. .	696 9 7	75 0 0	17 8 3	788 17 10	559 11 8	229 6 2
Mitiamo .. .. .	464 10 6	39 0 0	11 12 3	515 2 9	..	515 2 9
Mornington .. .. .	8,089 12 0	848 0 0	202 4 10	9,139 16 10	247 2 11	8,892 13 11
Nandaly .. .. .	16 7 11	9 0 0	0 8 2	25 16 1	Cr. 6 15 0	32 11 1
Natimuk .. .. .	691 13 2	50 0 0	17 5 10	758 19 0	..	758 19 0
Newstead .. .. .	701 5 0	51 0 0	17 10 8	769 15 8	..	769 15 8
Nullawil .. .. .	58 13 0	10 0 0	1 9 4	70 2 4	..	70 2 4
Nyah .. .. .	368 2 11	31 0 0	9 0 2	408 3 1	..	408 3 1
Nyah West .. .. .	1,505 15 1	116 0 0	37 12 11	1,659 8 0	60 10 9	1,598 17 3
Ouyen .. .. .	772 11 5	111 0 0	19 6 3	902 17 8	126 9 10	776 7 10
Pakenham .. .. .	3,081 18 3	231 0 0	77 0 11	3,389 19 2	..	3,389 19 2
Patchewollock .. .. .	139 3 10	17 0 0	3 9 7	159 13 5	128 10 6	31 2 11
Piangel .. .. .	0 5 1	52 0 0	0 0 2	52 5 3	19 2 0	33 3 3
Portarlington .. .. .	2,626 16 7	195 0 0	65 13 5	2,887 10 0	38 6 6	2,849 3 6
Pyramid Hill .. .. .	476 2 3	39 0 0	11 18 1	527 0 4	61 0 6	465 19 10
Quambatook .. .. .	65 16 10	43 0 0	1 12 11	110 9 9	3 13 4	106 16 5
Queenscliff and Point Lonsdale .. .. .	4,529 4 8	514 0 0	113 4 7	5,156 9 3	..	5,156 9 3
Rainbow .. .. .	627 3 5	48 0 0	15 13 7	690 17 0	..	690 17 0
Rupanyup .. .. .	643 9 7	57 0 0	16 1 9	716 11 4	..	716 11 4
Sea Lake .. .. .	800 12 1	75 0 0	20 0 4	895 12 5	..	895 12 5
Somerville .. .. .	793 3 10	59 0 0	19 16 7	872 0 5	..	872 0 5
South Frankston .. .. .	3,202 10 7	312 0 0	80 1 3	3,594 11 10	..	3,594 11 10
Speed .. .. .	360 14 3	19 0 0	6 10 2	386 4 5	..	386 4 5
Tempy .. .. .	317 0 4	17 0 0	5 17 3	339 17 7	..	339 17 7
Terang .. .. .	5,569 10 5	506 0 0	139 4 9	6,214 15 2	..	6,214 15 2
Torquay .. .. .	1,335 13 4	97 0 0	33 7 10	1,466 1 2	..	1,466 1 2
Ultima .. .. .	313 18 10	36 0 0	7 17 0	357 15 10	315 8 8	42 7 2
Waitchie .. .. .	241 6 9	18 0 0	6 0 8	265 7 5	..	265 7 5
Walpeup .. .. .	177 19 2	13 0 0	4 9 0	195 8 2	..	195 8 2
Watchem .. .. .	363 18 0	35 0 0	9 1 11	407 19 11	26 12 6	381 7 5
Werrimull .. .. .	439 11 3	42 0 0	10 19 9	492 11 0	..	492 11 0
Wonthaggi .. .. .	5,296 12 0	414 0 0	132 8 4	5,843 0 4	1,002 2 2	4,840 18 2
Woomelang .. .. .	899 3 9	65 0 0	22 9 7	986 13 4	..	986 13 4
Woorinen .. .. .	255 12 4	16 0 0	5 8 10	277 1 2	..	277 1 2
Wycheproof .. .. .	2,151 13 1	143 0 0	53 7 11	2,348 1 0	..	2,348 1 0
Yaapeet .. .. .	127 0 11	18 0 0	3 3 6	148 4 5	..	148 4 5
Totals .. .. .	212,283 6 5	23,286 2 8	5,293 5 9	240,862 14 10	16,406 19 4	224,455 15 6
BUILDINGS.						
Buildings .. .. .	21,507 13 10	10,000 0 0	537 13 10	32,045 7 8	6,659 3 7	25,386 4 1
Totals .. .. .	21,507 13 10	10,000 0 0	537 13 10	32,045 7 8	6,659 3 7	25,386 4 1
PLANT WORKSHOPS.						
Bendigo .. .. .	1,575 0 0	1,195 0 0	39 7 6	2,809 7 6	..	2,809 7 6
Totals .. .. .	1,575 0 0	1,195 0 0	39 7 6	2,809 7 6	..	2,809 7 6
Grand Totals .. .. .	497,479 15 8	66,908 9 9	12,396 8 8	576,784 14 1	25,774 13 9	551,010 0 4

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

<i>Water Supply Works Depreciation Account.</i>				<i>Water Supply Works Depreciation Fund (in Treasury).</i>			
	£	s. d.	£ s. d.		£	s. d.	£ s. d.
Balance from 1948-49 .. ..			497,479 15 8	Credit Balance as at 30th June, 1949 .. ..	15,489	14 2	
Paid into Account, 1949-50 ..	66,441	8 11		Investments redeemed 1949-50 ..	20,000	0 0	
Paid by Commission direct to Fund 1949-50 .. ..		467 0 10		Paid by Commission direct to Fund 1949-50 .. ..		467 0 10	
			66,908 9 9	Amount transferred to Fund by Treasury 1949-50 .. ..			
Interest credited 1949-50 .. ..			564,388 5 5	Interest earned in Investment Account 1949-50 .. ..	8,272	19 7	
			12,396 8 8				44,229 14 7
			576,784 14 1	<i>Less—</i>	£	s. d.	
<i>Less</i> Expenditure 1949-50 .. ..			25,774 13 9	Expenditure 1949-50 ..	25,774	13 9	
			551,010 0 4	Amount Invested by Treasury 1949-50 ..			
						25,774 13 9	
							18,455 0 10
				Amount at credit of Sundry Investment Account	321,000	0 0	
				Amount credited to Account in Commission's books — not credited to Fund by Treasury at 30th June, 1949 ..	124,878	14 10	
				<i>Add</i> Amount paid to Revenue 1949-50 .. ..	66,441	8 11	
							191,320 3 9
				<i>Less</i> Amount transferred to Fund by Treasury 1949-50 ..			
							191,320 3 9
				<i>Add—</i>	£	s. d.	
				Total Interest credited to Account in Commission books at 30th June, 1950 ..	70,091	2 3	
				<i>Less—</i>			
				Amount credited to Fund by Treasury at 30th June, 1950 ..	49,856	6 6	
						20,234 15 9	
				Amount not credited to Fund by Treasury at 30th June, 1950 ..			211,554 19 6
							551,010 0 4

**WATER SUPPLY PLANT AND MACHINERY ACCOUNT (ACT 4761).**

**SUMMARY OF OPERATING TRANSACTIONS FOR YEAR ENDED 30TH JUNE, 1950.**

	£	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 with respect to Capital Liability of £1,168,241 19s. 4d as at 30th June, 1950—				Interest due for year paid to Revenue No. 2 to 30th June, 1950 ..		25,366 18 6	
Interest .. ..	13,183	10 7		Redemption paid to Revenue No. 9, Miscellaneous, to 30th June, 1950 ..		2,118 11 1	
Redemption .. ..	1,099	16 4		Water Supply Plant and Machinery Depreciation Fund (in Treasury) ..	128,857	0 6	
Depreciation .. ..	127,763	7 9		Interest on Fund Investment ..	4,249	11 0	
Cost of Operation, Maintenance, and Repairs .. ..	151,019	16 10				133,106 11 6	
			293,066 11 6	Cost of Operation, Maintenance, Repairs, &c. ..		142,010 2 8	
Interest—Depreciation Fund Investment ..			4,249 11 0	Stores Suspense Account Reserve ..		87,689 1 7	
Balance from 1948-49 .. ..			92,975 2 10				
			390,291 5 4				390,291 5 4

**WATER SUPPLY PLANT AND MACHINERY ACCOUNT (ACT 4761).**  
**SUMMARY OF CAPITAL TRANSACTIONS FOR YEAR ENDED 30TH JUNE, 1950. .**

						£	s.	d.	£	s.	d.
<b>Plant and Machinery—</b>											
Debit Balance in Account as at 30th June, 1949	..	..	..	..	..	515,211	13	9			
Add—Purchases of Plant during year 1949–50	..	..	..	..	..	659,812	9	11			
									1,175,024	3	8
<b>Deduct—</b>											
Redemption paid to Treasury 30th June, 1950	..	..	..	..	..	2,118	11	1			
Repayments to State Loans Repayment Fund	..	..	..	..	..	4,663	13	3			
									6,782	4	4
Total Capital Liability	..	..	..	..	..				1,168,241	19	4

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

						£	s.	d.
<b>Plant and Machinery—</b>								
Payments to 30th June, 1949	..	..	..	..	..	46,360	3	11
Amount due and paid for year 1949–50	..	..	..	..	..	25,366	18	6
						71,727	2	5

**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, 1949	167,344	2	7				
Less Net Interest earned but not transferred to Fund at 30th June, 1949	..	..	2,166	10	6		
					165,177	12	1
<b>Add—</b>							
Proceeds from Hire of Plant	..	128,857	0	6*			
Other Credits to Account	..	2,203	0	0			
		131,060	0	6			
Add Interest credited for year 1949–50	..	..	4,249	11	0		
		135,309	11	6			
Less Expenditure for replacement of Plant	..	..	9,225	3	0		
		126,084	8	6			
		291,262	0	7			

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

		£	s.	d.	£	s.	d.
Balance as per Treasury General Account at 30th June, 1949	..	..	42,177	12	1		
Payments to Fund during 1949–50	131,060	0	6				
Interest credited by Treasury on Investments for year 1949–50	..	4,249	11	0			
		135,309	11	6			
		177,487	3	7			
<b>Less Amount transferred by Treasury to Investment Account during 1949–50</b>							
	..	100,000	0	0			
Less Withdrawal for replacement of plant	..	..	9,225	3	0		
		109,225	3	0			
Balance as per Treasury General Account at 30th June, 1950	..	..	68,262	0	7		
Amount Invested in Treasury Investment Account	..	..	223,000	0	0		
		291,262	0	7			

\* Includes amounts in respect of Motor Vehicles and Excavators transferred to Plant and Machinery Account from Water Supply Stores Suspense Account and Rivers and Streams Fund respectively.

## CAPITAL EXPENDITURE.

STATEMENT OF MONEYS EXPENDED UNDER WATER SUPPLY LOAN ACTS FOR THE YEAR ENDED  
30TH JUNE, 1950.

Works.	Water Supply Loan Funds.						Treasurer's Advance.	
	Act 5334.		Act 5418.		Total Ordinary Loan Funds.			
	£	s. d.	£	s. d.	£	s. d.	£	s. d.
<i>Main Supply Works, Stores, and Workshops.</i>								
Benjeroop Weir .. .. .	..	..	1 13 6	..	1 13 6	..	..	..
Bulk Store and Storeyard, South Melbourne .. ..	624 7 7	..	646 0 8	..	1,270 8 3	..	..	..
Cairn Curran Reservoir .. .. .	37,792 12 9	..	441,408 10 9	..	479,201 3 6	..	..	..
Commission Buildings .. .. .	..	..	45,439 11 6	..	45,439 11 6	..	..	..
Central Plant Workshops—	..	..	..	..	..	..	..	..
Golden Square .. .. .	15,315 2 8	..	41,913 2 3	..	57,228 4 11	..	..	..
Kerang Sub Depot .. .. .	463 11 11	..	191 6 6	..	654 18 5	..	..	..
East Goulburn Channel .. .. .	700 6 6	..	62 7 9	..	762 14 3	..	..	..
Eildon Reservoir Enlargement .. .. .	3,194 1 3	..	91,668 13 7	..	94,862 14 10	..	..	..
Eppalock Reservoir .. .. .	Cr. 114 7 5	..	103 11 7	Cr.	10 15 10	..	..	..
Glenelg River Works to Wimmera-Mallee Section ..	430 15 0	..	24,676 3 2	..	25,106 18 2	..	..	..
Glenmaggie Weir .. .. .	115 14 10	..	980 16 10	..	1,096 11 8	..	..	..
Goulburn-Waranga Channel Duplication .. .. .	8,203 11 3	..	33,622 0 8	..	41,825 11 11	..	..	..
Kow Swamp Works .. .. .	..	..	440 5 5	..	440 5 5	..	..	..
Little River Weir .. .. .	3 12 8	..	2,530 6 7	..	2,533 19 3	..	..	..
Loddon River Works .. .. .	0 15 5	..	315 3 8	..	315 19 1	..	..	..
Loddon Weir .. .. .	24 19 4	..	284 13 8	..	309 13 0	..	..	..
Melton Reservoir .. .. .	3 2 6	..	0 5 0	..	3 7 6	..	..	..
Plant and Machinery .. .. .	203,524 1 2	..	456,288 8 9	..	659,812 9 11	..	..	..
Pykes Creek Reservoir .. .. .	0 18 3	..	0 15 10	..	1 14 1	..	..	..
River Improvements .. .. .	78 14 3	..	3,058 18 8	..	3,137 12 11	..	..	..
Rocklands Outlet Channel .. .. .	43,796 15 4	..	86,008 4 2	..	129,804 19 7	..	..	..
Rocklands Reservoir .. .. .	44,394 16 6	..	316,301 17 11	..	360,696 14 5	..	..	..
Surveys and Investigations .. .. .	14,529 5 2	..	64,159 10 10	..	78,688 16 0	..	..	..
Toolondo Outlet Channel .. .. .	7,562 15 10	..	38,830 19 11	..	46,393 15 9	..	..	..
Torrumbarry System (excluding Weir) .. .. .	57 19 5	..	663 18 8	..	721 18 1	..	..	..
Waranga Reservoir .. .. .	..	..	819 18 4	..	819 18 4	..	..	..
Waranga West Extension Loddon-Avoca, Section 1 ..	14 14 0	..	34 14 8	..	49 8 8	..	..	..
Water Supply Stores Suspense .. .. .	35,000 0 0	..	100,000 0 0	..	135,000 0 0	140,000 0 0	..	..
Wimmera Main Channels .. .. .	54 5 3	..	20 11 4	..	74 16 7	..	..	..
Wimmera Storages .. .. .	58 1 8	..	4 16 8	..	62 18 4	..	..	..
<i>Irrigation and Water Supply Districts.</i>								
Bacchus Marsh .. .. .	1,613 13 7	..	4,628 12 3	..	6,242 5 10	..	..	..
Boort .. .. .	3,773 7 2	..	3,338 17 10	..	7,112 5 0	..	..	..
Calivil .. .. .	1,049 17 11	..	1,993 7 0	..	3,043 4 11	..	..	..
Campaspe .. .. .	155 10 0	..	2,520 5 3	..	2,675 15 3	..	..	..
Central Gippsland .. .. .	70,071 18 8	..	244,075 9 7	..	314,147 8 3	..	..	..
Cohuna .. .. .	5,365 14 9	..	4,575 15 4	..	9,941 10 1	..	..	..
Deakin .. .. .	..	..	340 11 6	..	340 11 6	..	..	..
Dingee .. .. .	457 6 8	..	1,608 16 5	..	2,066 3 1	..	..	..
Fish Point .. .. .	83 2 0	..	149 7 9	..	232 9 9	..	..	..
Katandra .. .. .	21 5 10	..	830 13 8	..	851 19 6	..	..	..
Kerang .. .. .	175 11 10	..	563 17 0	..	739 8 10	..	..	..
Koondrook .. .. .	543 9 10	..	669 19 1	..	1,213 8 11	..	..	..
Maffra-Sale .. .. .	6,444 14 8	..	8,449 12 8	..	14,894 7 4	..	..	..
Murray Valley .. .. .	86,659 0 1	..	180,017 9 5	..	266,676 9 6	..	..	..
Mystic Park .. .. .	12 14 10	..	23 9 9	..	36 4 7	..	..	..
North Shepparton .. .. .	146 14 9	..	1,620 3 11	..	1,766 18 8	..	..	..
Nyah .. .. .	2,681 7 1	..	4,616 16 3	..	7,298 3 4	..	..	..
Red Cliffs-Merbein .. .. .	5,200 4 11	..	2,196 19 6	..	7,397 4 5	..	..	..
Robinvale .. .. .	38,880 11 0	..	69,615 14 5	..	108,496 5 5	..	..	..
Rochester .. .. .	867 17 5	..	2,676 15 2	..	3,544 12 7	..	..	..
Rodney .. .. .	5,916 3 7	..	9,736 8 11	..	15,652 12 6	..	..	..
Shepparton .. .. .	169 19 7	..	1,620 1 2	..	1,790 0 9	..	..	..
South Shepparton .. .. .	2 11 11	..	664 13 6	..	667 5 5	..	..	..
Swan Hill .. .. .	329 18 9	..	1,550 8 3	..	1,880 7 0	..	..	..
Third Lake .. .. .	17 1 11	..	31 9 7	..	48 11 6	..	..	..
Tongala-Stanhope .. .. .	..	..	2,210 14 2	..	2,210 14 2	..	..	..
Tragowel Plains .. .. .	3,033 12 9	..	5,457 1 4	..	8,490 14 1	..	..	..
Tresco .. .. .	242 16 4	..	925 9 1	..	1,168 5 5	..	..	..
Werribee .. .. .	1,035 18 10	..	2,418 15 1	..	3,454 13 11	..	..	..
<i>Urban Divisions of Irrigation and Water Supply Districts.</i>								
Bacchus Marsh .. .. .	26 7 9	..	231 14 6	..	258 2 3	..	..	..
Cohuna .. .. .	17 3 7	..	296 14 3	..	313 17 10	..	..	..
Leitchville .. .. .	..	..	11 13 11	..	11 13 11	..	..	..
Lockington .. .. .	7 11 7	..	12 7 1	..	19 18 8	..	..	..
Macorna .. .. .	13 2 3	..	0 19 10	..	14 2 1	..	..	..
Red Cliffs .. .. .	426 15 8	..	846 7 1	..	1,273 2 9	..	..	..
Robinvale .. .. .	4,613 19 8	..	2,012 1 0	..	6,626 0 8	..	..	..
Tallygaroopna .. .. .	146 2 9	..	103 18 6	..	250 1 3	..	..	..
Carried forward .. .. .	655,944 3 1	2,313,120 19 10	2,969,065 2 11	140,000 0 0				

## CAPITAL EXPENDITURE—continued.

STATEMENT OF MONEYS EXPENDED UNDER WATER SUPPLY LOAN ACTS FOR THE YEAR ENDED  
30TH JUNE, 1950—continued.

Works.	Water Supply Loan Funds.						Treasurer's Advance.
	Act 5334.		Act 5418.		Total Ordinary Loan Funds.		
	£	s. d.	£	s. d.	£	s. d.	£ s. d.
Brought forward .. .. .	655,944	3 1	2,313,120	19 10	2,969,065	2 11	140,000 0 0
<i>Waterworks Districts.</i>							
Bellarine Peninsula (including Headworks) .. .. .	10,222	0 5	44,335	2 1	54,557	2 6	..
Birchip .. .. .	64	0 8	1,590	8 2	1,654	8 10	..
Carwarp .. .. .	93	13 2	230	0 4	323	13 6	..
Carwarp Central .. .. .	5	6 9	13	2 1	18	8 10	..
Coreena .. .. .	438	7 4	288	16 1	727	3 5	..
East Loddon .. .. .	20	11 1	39	0 5	59	11 6	..
Hindmarsh .. .. .	12	12 5	149	14 1	162	6 6	..
Karkaroc .. .. .	2	17 3	362	0 10	364	18 1	..
Kerang North-West Lakes .. .. .	3	17 9	4	18 10	8	16 7	..
Loddon .. .. .	27	1 7	51	8 3	78	9 10	..
Long Lake .. .. .	Cr. 292	9 6	503	0 7	210	11 1	..
Millewa .. .. .	1,037	3 8	3,604	12 0	4,641	15 8	..
Millewa Central .. .. .	302	15 6	743	12 4	1,046	7 10	..
Mornington Peninsula (including Headworks) .. .. .	18,376	8 10	87,836	1 9	106,212	10 7	..
Normanville .. .. .	1,344	13 10	1,238	16 7	2,583	10 5	..
Otway .. .. .	2,134	14 10	2,901	11 10	5,036	6 8	..
Sea Lake .. .. .	96	5 5	2,194	10 3	2,284	15 8	..
Tyntynder .. .. .	520	13 3	1,170	19 3	1,691	14 6	..
Tyrrell .. .. .	15	7 1	41	7 9	56	14 10	..
Tyrrell West .. .. .	35	0 5	561	14 2	596	14 7	..
Upper Western Wimmera .. .. .	47	5 4	560	13 6	607	18 10	..
Upper Wimmera United .. .. .	54	13 9	578	10 0	633	3 9	..
Walpeup West .. .. .	3	5 1	8	15 2	12	0 3	..
Werribee .. .. .	100	1 2	233	12 6	333	13 8	..
West Loddon .. .. .	217	18 4	76	16 10	294	15 2	..
Western Wimmera .. .. .	1,458	9 1	3,109	5 7	4,567	14 8	..
Wimmera United .. .. .	343	9 9	2,960	17 3	3,304	7 0	..
Wycheproof .. .. .	107	6 8	2,609	5 1	2,716	11 9	..
Wychitella .. .. .	120	17 5	802	19 1	923	16 6	..
Yelta .. .. .	14	8 3	3	9 8	17	17 11	..
<i>Urban Districts of Waterworks Districts.</i>							
Allansford .. .. .	6	17 2	134	2 1	140	19 3	..
Anglesea .. .. .	265	13 9	336	7 0	602	0 9	..
Antwerp .. .. .	..	..	7	19 4	7	19 4	..
Barwon Heads and Ocean Grove .. .. .	874	6 1	1,450	3 9	2,324	9 10	..
Berriwillock .. .. .	793	0 3	697	5 4	1,490	5 7	..
Berwick .. .. .	101	10 6	49	17 11	151	8 5	..
Beulah .. .. .	..	..	65	0 4	65	0 4	..
Birchip .. .. .	266	10 11	68	5 10	334	16 9	..
Birregurra .. .. .	149	12 11	309	12 10	459	5 9	..
Bittern .. .. .	15	12 2	1	11 0	17	3 2	..
Brim .. .. .	5	5 0	3,505	3 7	3,510	8 7	..
Bunyip .. .. .	81	3 6	33	1 9	119	5 3	..
Camperdown .. .. .	191	12 8	1,239	11 1	1,431	3 9	..
Chelsea-Frankston .. .. .	3,473	12 4	17,597	19 7	21,071	11 11	..
Cobden .. .. .	55	8 3	516	10 4	571	18 7	..
Coliban .. .. .	39,941	7 7	91,940	2 7	131,881	10 2	..
Cranbourne .. .. .	..	..	456	1 4	456	1 4	..
Crib Point .. .. .	415	18 5	240	13 10	656	12 3	..
Dandenong-Springvale .. .. .	5,202	8 5	20,064	8 3	25,266	16 8	..
Dimboola .. .. .	335	8 2	102	8 10	437	17 0	..
Dromana-Portsea .. .. .	829	15 9	9,859	8 2	10,689	3 11	..
Drysdale .. .. .	20	5 8	74	3 4	94	9 0	..
Garfield .. .. .	107	9 8	68	16 3	176	5 11	..
Garvoc .. .. .	..	..	1	16 9	1	16 9	..
Hastings .. .. .	313	10 0	96	11 8	410	1 8	..
Hopetoun .. .. .	10	7 10	23	13 9	34	1 7	..
Jeparit .. .. .	65	15 5	61	6 10	127	2 3	..
Jung Jung .. .. .	..	..	76	10 0	76	10 0	..
Koondrook .. .. .	0	1 0	..	..	0	1 0	..
Lake Boga .. .. .	61	9 10	29	4 4	90	14 2	..
Lascelles .. .. .	..	..	Cr. 3	0 0	Cr. 3	0 0	..
Longwarry .. .. .	156	10 10	40	8 4	196	19 2	..
Manangatang .. .. .	89	15 0	78	1 10	167	16 10	..
Marnoo .. .. .	..	..	51	4 11	51	4 11	..
Merbein .. .. .	236	5 7	309	5 4	545	10 11	..
Minyip .. .. .	..	..	114	7 0	114	7 0	..
Mitiamo .. .. .	..	..	338	0 0	338	0 0	..
Mornington .. .. .	..	..	2,042	17 1	2,042	17 1	..
Nandaly .. .. .	26	13 4	187	2 2	213	15 6	..
Carried forward .. .. .	746,960	9 8	2,624,197	6 6	3,371,157	16 2	140,000 0

## CAPITAL EXPENDITURE—continued.

STATEMENT OF MONEYS EXPENDED UNDER WATER SUPPLY LOAN ACTS FOR THE YEAR ENDED  
30TH JUNE, 1950—continued.

Works.	Water Supply Loan Funds.			Treasurer's Advance.
	Act 5334.	Act 5418.	Total Ordinary Loan Funds.	
	£      s.      d.	£      s.      d.	£      s.      d.	£      s.      d.
Brought forward .. .. .	746,960 9 8	2,624,197 6 6	3,371,157 16 2	140,000 0 0
<i>Urban Districts of Waterworks Districts—continued.</i>				
Natimuk .. .. .	19 4 7	1 11 8	20 16 3	..
Nyah West .. .. .	..	67 12 11	67 12 11	..
Officer .. .. .	784 16 2	65 8 4	850 4 6	..
Ouyen .. .. .	23 3 8	17 12 11	40 16 7	..
Pakenham .. .. .	163 18 2	64 3 7	228 1 9	..
Patchewollock .. .. .	173 6 4	160 14 9	334 1 1	..
Piangil .. .. .	47 9 9	3 18 4	51 8 1	..
Portarlinton .. .. .	168 4 4	696 8 7	864 12 11	..
Pyramid Hill .. .. .	..	18 2 1	18 2 1	..
Quambatook .. .. .	36 8 2	8 6 7	44 14 9	..
Queenschiff and Point Lonsdale .. .. .	465 8 8	452 8 4	917 17 0	..
Rainbow .. .. .	4 6 5	33 12 9	37 19 2	..
Rupanyup .. .. .	40 0 0	13 10 8	53 10 8	..
Somerville .. .. .	5 2 2	2 6 8	7 8 10	..
South Frankston .. .. .	85 13 1	327 3 11	412 17 0	..
Speed .. .. .	..	5 1 2	5 1 2	..
Terang .. .. .	136 0 9	617 12 2	753 12 11	..
Torquay .. .. .	843 13 11	1,123 9 0	1,967 2 11	..
Wonthaggi .. .. .	2 11 6	879 1 9	881 13 3	..
Wycheproof .. .. .	4 4 3	116 7 11	120 12 2	..
<i>Flood Protection District.</i>				
Lower Koo-wee-rup .. .. .	10,175 15 0	10,557 17 10	20,733 12 10	..
<i>Waterworks Trusts and Local Governing Bodies</i> .. .. .				
	189,331 1 4	420,600 0 0	609,931 1 4	..
Totals .. .. .	949,470 17 11	3,060,029 18 5	4,009,500 16 4	140,000 0 0

## SUMMARY.

	£	s.	d.
Ordinary Loan Funds (Acts 5334 and 5418) .. .. .	4,009,500	16	4
Treasurer's Advance .. .. .	140,000	0	0
Total .. .. .	4,149,500	16	4

## COUNTRY SEWERAGE AUTHORITIES.

Country Sewerage Loan and Application Act No. 5256—Expenditure for year ended 30th June, 1950 .. .. .	8,893	9	6
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## LOAN CAPITAL ACCOUNTS

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## C.—HEADWORKS.

## IN RESPECT OF IRRIGATION AND WATER SUPPLY DISTRICTS AND WATERWORKS DISTRICTS.

	£	s.	d.	£	s.	d.	£	s.	d.
<b>Goulburn and Loddon Storages—</b>									
Investigations ..	6,534	7	4						
Eildon Reservoir ..	1,863,063	1	3						
Eildon Reservoir Enlargement (Proposed—Not Apportioned to Districts) ..	155,164	6	11						
Waranga Reservoir Enlargement ..	609,748	19	8						
Leanecoore Weir Improvements ..	2,509	9	3						
Cairn Curran Reservoir (Under construction—Not Apportioned to Districts) ..	1,061,613	2	2	3,698,633	6	7			
<b>Goulburn Main Channels—</b>									
East Goulburn Main ..	365,136	19	5						
Goulburn-Waranga ..	6,922	8	4						
Goulburn-Waranga Duplication (Proposed—Not Apportioned to Districts) ..	63,898	8	9						
Waranga-Western Main ..	1,047,640	16	9						
Main Distributaries ..	11,232	5	8	1,494,830	18	11			
Total Goulburn and Loddon Works ..	..	..	..	5,193,464	5	6			
Less Debited to Wimmera-Mallee ..	..	..	..	99,318	19	7	5,094,145	5	11
<b>Bacchus Marsh and Werribee Schemes—</b>									
Ballan Tunnel ..	..	..	..	21,677	14	8			
Pykes Creek Reservoir ..	..	..	..	143,544	7	9			
Melton Reservoir ..	..	..	..	99,985	6	6			
Lerderberg River Flats ..	..	..	..	330	0	8	265,537	9	7
<b>Bellarine Peninsula Waterworks District (exclusive of cost of Urban Reticulation) ..</b>	..	..	..	549,273	9	3			
Less Redemption paid to Revenue ..	..	..	..	1,887	5	1	547,386	4	2
<b>Mornington Peninsula Waterworks District (exclusive of cost of Distributory Works and Urban Reticulation) ..</b>	..	..	..	1,224,077	10	7			
Less Redemption paid to Revenue ..	..	..	..	1,606	13	1	1,222,470	17	6
<b>Maffra-Sale Scheme—Glenmaggie Reservoir</b>	..	..	..	..	..	..	686,638	14	11
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) ..	..	..	..	291,219	14	8			
Less Redemption Paid to Revenue ..	..	..	..	2,883	19	5	288,335	15	3
<b>Wimmera-Mallee—</b>									
Main Channels and Storages inclusive of £99,318 19s. 7d. from Goulburn Works ..	..	..	..	989,981	2	10			
Glenelg River Development Works (Under Construction, Not Apportioned to Districts) ..	..	..	..	1,649,914	6	1	2,619,895	8	11
							13,722,662	8	6
Carried forward ..									
							19,257,910	17	7

# LOAN CAPITAL ACCOUNTS—continued.

Totals at  
30th June, 1950.  
£ s. d.  
19,257,910 17 7

Name of District.	Loan Capital Expenditure.						Allotted to District.		Capital Expenditure borne by the State Account.								
	Headworks.			Distributary Works.					Headworks.			Distributary Works.					
	Total.			Total.			Total.			Total.							
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.		
1. Bacchus Marsh ..	83,253	1	8	102,729	7	1	..	..	83,253	1	8	102,729	7	1	185,982	8	9
2. Boort ..	169,356	0	5	102,103	6	7	..	..	169,356	0	5	102,103	6	7	271,459	7	0
3. Calivil ..	81,155	9	8	116,799	18	6	..	..	81,155	9	8	116,799	18	6	197,955	8	2
4. Campaspe ..	4,997	2	6	15,975	3	10	..	..	4,997	2	6	15,975	3	10	20,972	6	4
5. Central Gippsland (under construction) ..	..	..	..	488,804	2	2	..	..	..	..	..	488,804	2	2	488,804	2	2
6. Cohuna ..	500,500	8	1	354,568	8	5	..	..	500,500	8	1	354,568	8	5	855,068	16	6
7. Deakin ..	36,674	7	11	59,395	16	11	..	..	36,674	7	11	59,395	16	11	96,070	4	10
8. Dingee ..	57,901	7	6	34,488	14	6	..	..	57,901	7	6	34,488	14	6	92,390	2	0
9. Fish Point ..	21,707	0	0	18,121	10	5	..	..	21,707	0	0	18,121	10	5	39,828	10	5
10. Katandra ..	74,669	8	7	108,921	1	0	..	..	74,669	8	7	108,921	1	0	183,590	9	7
11. Kerang ..	251,516	0	0	135,956	0	9	..	..	251,516	0	0	135,956	0	9	387,472	0	9
12. Koondrook ..	247,864	0	0	235,948	12	7	..	..	247,864	0	0	235,948	12	7	483,812	12	7
13. Maffra-Sale ..	686,638	14	11	634,925	10	3	..	..	686,638	14	11	634,925	10	3	1,321,564	5	2
14. Murray Valley ..	897,294	4	6	1,636,318	16	0	..	..	897,294	4	6	1,636,318	16	0	2,533,613	0	6
15. Mystic Park ..	39,419	19	8	19,340	19	3	..	..	39,419	19	8	19,340	19	3	58,760	18	11
16. North Shepparton ..	157,603	9	2	211,861	16	10	..	..	157,603	9	2	211,861	16	10	369,465	6	0
17. Nyah ..	74,857	0	0	186,300	13	1	..	..	74,857	0	0	186,300	13	1	261,157	13	1
18. Red Cliffs—Merbein (under construction) ..	478,912	0	0	1,090,985	4	0	..	..	478,912	0	0	1,090,985	4	0	1,569,897	4	0
19. Robinvale (under construction) ..	..	..	..	407,409	12	11	..	..	..	..	..	407,409	12	11	407,409	12	11
20. Rochester ..	839,205	9	6	355,564	3	1	..	..	839,205	9	6	355,564	3	1	1,194,769	12	7
21. Rodney ..	902,174	1	8	648,309	16	1	..	..	902,174	1	8	648,309	16	1	1,550,483	17	9
22. Shepparton ..	286,003	5	3	211,803	10	10	..	..	286,003	5	3	211,803	10	10	497,806	16	1
23. South Shepparton ..	58,645	0	0	60,423	5	11	..	..	58,645	0	0	60,423	5	11	119,068	5	11
24. Swan Hill ..	293,491	17	0	191,700	13	0	..	..	293,491	17	0	191,700	13	0	485,192	10	0
25. Third Lake ..	25,637	0	0	25,942	18	0	..	..	25,637	0	0	25,942	18	0	51,579	18	0
26. Tongala—Stanhope ..	640,666	7	9	306,794	14	7	..	..	640,666	7	9	306,794	14	7	947,461	2	4
27. Tragowel Plains ..	504,363	1	2	280,880	5	0	..	..	504,363	1	2	280,880	5	0	785,243	6	2
28. Tresco ..	25,960	0	0	97,411	8	11	..	..	25,960	0	0	97,411	8	11	123,371	8	11
29. Werribee ..	182,284	7	11	127,665	17	8	..	..	182,284	7	11	127,665	17	8	309,950	5	7
Totals ..	7,622,750	4	10	8,267,451	8	2	..	..	7,622,750	4	10	8,267,451	8	2	15,890,201	13	0

8,267,451 8 2

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

1. Bacchus Marsh ..	14,470	3	7	14,470	3	7	10,000	10	9	4,469	12	10
2. Cohuna ..	9,532	0	10	9,532	0	10	3,160	3	8	6,371	17	2
3. Corop ..	231	15	6	231	15	6	..	..	..	231	15	6
4. Dingle ..	1,674	3	11	1,674	3	11	..	..	..	1,674	3	11
5. Heyfield ..	13,031	18	6	13,031	18	6	..	..	..	13,031	18	6
6. Leitchville ..	3,892	8	4	3,892	8	4	..	..	..	3,892	8	4
7. Lockington ..	2,304	13	8	2,304	13	8	120	0	5	2,184	13	3
8. Macorna ..	1,378	12	1	1,378	12	1	..	..	..	1,378	12	1
9. Murrabit ..	1,030	18	3	1,030	18	3	..	..	..	1,030	18	3
10. Red Cliffs ..	20,928	15	2	20,928	15	2	1,624	2	5	19,304	12	9
11. Robinvale ..	8,960	0	10	8,960	0	10	..	..	..	8,960	0	10
12. Stanhope ..	1,292	14	6	1,292	14	6	..	..	..	1,292	14	6
13. Tallygaropna ..	4,084	9	5	4,084	9	5	..	..	..	4,084	9	5
Totals ..	82,812	14	7	82,812	14	7	14,904	17	3	67,907	17	4

82,812 14 7

F.—WATERWORKS DISTRICTS.

1. Axe Creek ..	4,908	18	4	4,908	18	4	..	..	..	4,908	18	4
2. Bellarine Peninsula ..	339,430	16	4	339,430	16	4	..	..	..	256,243	12	2
3. Birchlip ..	37,927	9	1	141,381	8	11	83,187	4	2	141,381	8	11
4. Carwarp ..	42,184	18	6	42,184	18	6	..	..	..	42,184	18	6
5. Carwarp Central ..	2,403	16	2	2,403	16	2	..	..	..	2,403	16	2
6. Coreena ..	54,708	16	5	54,708	16	5	..	..	..	54,708	16	5
7. East Loddon ..	2,287	10	0	2,287	10	0	..	..	..	2,287	10	0
8. Harcourt ..	17,022	9	3	17,022	9	3	..	..	..	17,022	9	3
9. Hindmarsh ..	16,300	9	5	20,523	4	4	..	..	..	20,523	4	4
10. Karkaroc ..	221,802	18	9	320,303	15	9	..	..	..	320,303	15	9
11. Kerang North-West Lakes ..	4,001	3	6	4,001	3	6	..	..	..	4,001	3	6
12. Loddon ..	3,012	9	10	3,012	9	10	..	..	..	3,012	9	10
13. Long Lake ..	110,656	4	9	175,751	12	5	..	..	..	175,751	12	5
14. Millewa ..	392,016	11	8	496,409	11	8	..	..	..	496,409	11	8
15. Millewa Central ..	36,755	0	0	136,375	18	6	..	..	..	173,130	18	6
16. Mornington Peninsula ..	10,281	0	3	514,941	10	10	64,395	9	9	450,546	1	1
17. Newstead ..	4,636	6	10	4,636	6	10	..	..	..	4,636	6	10
18. Normanville ..	44,900	10	1	44,900	10	1	..	..	..	44,900	10	1
19. Otway ..	198,731	15	3	198,731	15	3	89,986	4	6	108,745	10	9
20. Ouyen ..	96,656	7	4	277,550	9	0	..	..	..	277,550	9	0
21. Sea Lake ..	48,765	5	4	202,280	17	1	..	..	..	202,280	17	1
22. Tyntynder ..	120,854	2	10	381,867	17	7	..	..	..	381,867	17	7
23. Tyrell ..	85,263	11	1	254,034	16	1	..	..	..	254,034	16	1
24. Tyrell West ..	105,926	17	7	162,185	2	10	..	..	..	162,185	2	10
25. Upper Western Wimmera ..	61,049	7	5	89,753	19	5	..	..	..	89,753	19	5
26. Upper Wimmera United ..	78,935	1	8	123,988	9	11	..	..	..	123,988	9	11
27. Walpeup West ..	35,767	10	10	35,767	10	10	..	..	..	35,767	10	10
28. Werribee ..	12,315	0	4	12,315	0	4	..	..	..	12,315	0	4
29. West Loddon ..	9,020	1	4	9,020	1	4	..	..	..	9,020	1	4
30. Western Wimmera ..	258,814	18	4	377,130	6	0	..	..	..	377,130	6	0
31. Wimmera United ..	99,455	12	8	308,174	17	1	..	..	..	308,174	17	1
32. Wycheproof ..	64,908	1	9	178,964	4	3	..	..	..	243,872	6	0
33. Wychitella (under construction) ..	129,784	9	0	129,784	9	0	..	..	..	129,784	9	0
34. Yelta ..	6,195	3	2	6,195	3	2	..	..	..	6,195	3	2
Totals ..	2,153,952	5	0	5,174,592	18	7	237,568	18	5	3,020,640	13	7

3,020,640 13 7

30,628,815 13 11

Carried forward ..

LOAN CAPITAL ACCOUNTS—continued.

Totals at  
30th June, 1950.  
£ s. d.  
30,628,815 13 11

Brought forward ..

Name of District.	Loan Capital Expenditure.			Allotted to District.			Capital Expenditure borne by the State Account.			Brought forward ..		
	Headworks.		Total.	Distributary Works.		Total.	Headworks.		Distributary Works.	Total.	£	s. d.
	£	s. d.		£	s. d.		£	s. d.				
1. Allansford ..	1,600	0 0	1,351 15 4	2,951 15 4	815 15 0	1,544 1 3	591 19 1	2,136 0 4				
2. Anglessea ..	10,223	6 0	11,221 14 1	21,445 0 1	29 10 1	10,193 15 11	11,221 14 1	21,415 10 0				
3. Antwerp ..	..	..	710 11 9	710 11 9	257 14 1	..	452 17 8	452 17 8				
4. Barwon Heads and Ocean Grove ..	39,207	1 5	13,611 1 4	52,818 2 9	7,923 10 4	38,242 11 1	6,652 1 4	44,894 12 5				
5. Berrinillock ..	..	..	7,746 10 5	7,746 10 5	3 5 5	..	7,743 5 0	7,743 5 0				
6. Berwick ..	13,733	4 8	10,048 0 10	23,781 5 6	3,096 7 3	13,733 4 8	6,951 13 7	20,684 18 3				
7. Beulah ..	..	..	7,671 11 7	7,671 11 7	2 13 2	..	7,668 18 5	7,668 18 5				
8. Birchip ..	..	..	15,176 2 8	15,176 2 8	..	..	15,176 2 8	15,176 2 8				
9. Birregurra ..	..	..	32,017 12 9	32,017 12 9	..	..	32,017 12 9	32,017 12 9				
10. Bittern ..	1,671	1 8	1,332 1 10	3,003 3 6	15 11 3	1,671 1 8	1,316 10 7	2,987 12 3				
11. Brim ..	..	..	7,034 14 6	7,034 14 6	332 8 6	..	6,702 6 0	6,702 6 0				
12. Bunyip ..	5,382	2 7	11,732 12 2	11,732 12 2	26 0 11	5,382 2 7	6,324 8 8	11,706 11 3				
13. Camperdown ..	46,469	0 0	51,624 0 7	98,093 0 7	54,202 16 3	39,927 1 3	3,963 3 1	43,890 4 4				
14. Carwarp ..	..	..	635 19 0	635 19 0	..	..	635 19 0	635 19 0				
15. Chelsea-Frankston ..	266,576	16 7	107,066 5 4	373,643 1 11	133,570 9 0	175,558 5 11	64,514 7 0	240,072 12 11				
16. Chillingollah ..	..	..	2,477 14 6	2,477 14 6	..	..	2,477 14 6	2,477 14 6				
17. Chinkapook ..	..	..	2,815 14 2	2,815 14 2	..	..	2,815 14 2	2,815 14 2				
18. Cobden ..	9,213	0 0	17,336 12 6	26,549 12 6	12,829 4 0	9,213 0 0	4,507 8 6	13,720 8 6				
19. Coliban ..	..	..	2,133,224 17 4	2,133,224 17 4	293,199 19 6	..	1,840,024 17 10	1,840,024 17 10				
20. Cranbourne ..	6,614	0 11	3,360 3 3	9,974 4 2	593 11 5	6,614 0 11	2,766 11 10	9,380 12 9				
21. Crib Point ..	8,766	18 0	3,999 3 4	12,766 1 4	2,282 4 3	8,766 18 0	1,716 19 1	10,483 17 1				
22. Culgoa ..	..	..	4,403 5 7	4,403 5 7	2,239 16 5	..	2,163 9 2	2,163 9 2				
23. Dandenong-Springvale ..	193,876	19 3	105,564 17 10	299,441 17 1	161,866 12 4	99,328 15 0	38,246 9 9	137,575 4 9				
24. Damboula ..	..	..	19,507 10 1	19,507 10 1	10,830 1 6	..	8,677 8 7	8,677 8 7				
25. Doon ..	..	..	698 3 0	698 3 0	16 19 0	..	681 4 0	681 4 0				
26. Dromana-Portsea ..	108,784	8 10	87,532 1 0	196,316 9 10	4,291 5 0	108,784 8 10	83,240 16 0	192,025 4 10				
27. Drysdale ..	13,791	2 0	2,653 18 4	16,445 0 4	38 2 0	13,752 11 4	2,654 7 0	16,406 18 4				
28. Garfield ..	4,188	16 4	4,968 15 0	9,157 11 4	27 3 5	4,188 16 4	4,941 11 7	9,130 7 11				
29. Garvoc ..	..	..	1 16 9	1 16 9	..	..	1 16 9	1 16 9				
30. Hastings ..	7,403	4 5	7,595 7 3	14,998 11 8	.. 4 10	7,403 4 5	7,589 2 5	14,992 6 10				
31. Hopetoun ..	..	..	10,702 16 0	10,702 16 0	23 15 4	..	10,679 0 8	10,679 0 8				
32. Jeparit ..	..	..	13,613 1 8	13,613 1 8	5,653 5 8	..	7,959 16 0	7,959 16 0				
33. Jung Jung ..	..	..	3,457 14 10	3,457 14 10	1 12 6	..	3,456 2 4	3,456 2 4				
34. Koondrook ..	..	..	6,165 7 11	6,165 7 11	..	..	6,165 7 11	6,165 7 11				
35. Lake Boga ..	..	..	6,307 11 9	6,307 11 9	95 11 3	..	6,212 0 6	6,212 0 6				
36. Lalbert ..	..	..	4,641 14 7	4,641 14 7	98 11 10	..	4,543 2 9	4,543 2 9				
37. Lascelles ..	..	..	4,504 7 6	4,504 7 6	16 18 0	..	4,487 9 6	4,487 9 6				
38. Longwarry ..	6,740	15 11	5,254 3 2	11,994 19 1	9,158 5 3	2,384 0 0	452 13 10	2,836 13 10				
39. Manangatang ..	..	..	5,324 2 10	5,324 2 10	1,635 6 3	..	3,688 16 7	3,688 16 7				
40. Marnoo ..	..	..	4,160 7 3	4,160 7 3	1,340 11 2	..	2,819 16 1	2,819 16 1				
41. Marong ..	..	..	2,099 18 7	2,099 18 7	22 18 10	..	2,076 19 9	2,076 19 9				

G.—URBAN DISTRICTS OF WATERWORKS DISTRICTS.

[illegible]

## H.—FLOOD PROTECTION DISTRICTS.

1. Cardinia ..	..	105,404	3	3	105,404	3	3
2. Kanyapella ..	..	3,885	1	5	3,885	1	5
3. Lower Koo-wee-rup ..	..	354,996	12	5	354,996	12	5
4. Loch Garry ..	..	18,621	18	11	18,621	18	11
Totals ..	..	482,907	16	0	482,907	16	0
					482,907 16 0		
					34,244,405 15 10		

# LOAN CAPITAL ACCOUNTS—continued.

Totals at  
30th June, 1950.  
£ s. d.  
34,244,405 15 10

Name of District.	Loan Capital Expenditure.				Allotted to District.		Capital Expenditure borne by the State Account.				Brought forward ..		
	Headworks.		Distributary Works.				Headworks.		Distributary Works.			Total.	
	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.			
1. Carrum .. ..	..	..	25,429	2 0	25,429	2 0	..	..	25,429	2 0	25,429	2 0	
Totals .. ..	..	..	25,429	2 0	25,429	2 0	..	..	25,429	2 0	25,429	2 0	
I.—DRAINAGE DISTRICT.													
Totals, Commission's Districts (Statements D, E, F, G, H, and I.) .. ..	10,792,072	4 7	15,011,924	0 3	25,803,996	4 10	1,133,227	8 3*	10,308,595	4 10	14,362,173	11 9	24,670,768 16 7

## I.—DRAINAGE DISTRICT.

† Exclusive of following Works not apportioned to Districts, viz.: Glenelg River Development Works, £1,549,914 8s. 1d. Cairn Curran Reservoir, £1061,613 2s. 2d. Goulburn Waranga Channel Duplication, £63,898 8s. 9d. Eldon Reservoir Enlargement, £155,164 6s. 11d. Total, £2,330,590 3s. 11d. (Statement C).

\* Exclusive of Plant and Machinery Suspense Account, £1,166,241 19s. 4d. Plant Workshops and Depots, £17,998 2s. 7d. Total, £1,186,240 1s. 11d. (Statement A).

## WORKS UNDER GENERAL SUPERVISION OF COMMISSION.

## J.—WATERWORKS TRUSTS AND LOCAL GOVERNING BODIES.

Waterworks Trusts, First Mildura Irrigation Trust and Local Governing Bodies Loan Liability Amounts Written Off and Free Grants to Local Authorities as at 30th June, 1949. (For details see Annual Report for year 1948/49).	£ s. d.				£ s. d.			
	£	s.	d.	..	£	s.	d.	..
Under Water Act 1948, No. 5334, Amounts Written Off .. .. .	..	..	..	..	2,040,338	13	11	..
Under Water Act 1949, No. 5418, Amounts Written Off .. .. .	..	..	..	..	50,135	13	6	..
Under Mildura Irrigation and Water Trusts Financial Act 1949, No. 5377, Sec. 2, Amount Written Off .. .. .	..	..	..	..	145,131	8	5	..
	..	..	..	..	58,171	4	3	..
					2,293,777	0	1	

4,763,943 3 9

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

39,033,778 1 7



SUMMARY STATEMENT OF LOAN CAPITAL ACCOUNTS AS AT 30th JUNE, 1950.

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	Capital Works and Charges ..	4,672,494	16 0	379,514	17 7	4,292,979	18 5	1,186,240	1 11	3,106,739	16 6
B	State Works of Water Supply ..	1,243,392	11 2	1,124	0 6	1,242,268	10 8	..	..	1,242,268	10 8
C	Headworks Costs in respect of Irrigation and Water Supply Districts and Waterworks Districts ..	13,869,851	1 6	147,188	13 0	13,722,662	8 6	483,476	19 9	13,239,185	8 9
D	Irrigation and Water Supply Districts, exclusive of Headworks Costs ..	8,377,119	4 8	109,667	16 6	8,267,451	8 2	..	..	8,267,451	8 2
E	Urban Divisions of Irrigation Districts ..	85,217	10 8	2,404	16 1	82,812	14 7	14,904	17 3	67,907	17 4
F	Waterworks Districts, exclusive of Headworks Costs ..	3,084,508	11 0	63,867	17 5	3,020,640	13 7	0	10 0	3,020,640	3 7
G	Urban Districts of Waterworks Districts, exclusive of Headworks Costs ..	3,192,021	1 10	59,338	15 11	3,132,682	5 11	634,845	1 3	2,497,837	4 8
H	Flood Protection Districts ..	491,084	10 9	8,176	14 9	482,907	16 0	..	..	482,907	16 0
I	Drainage Districts ..	26,137	16 5	708	14 5	25,429	2 0	..	..	25,429	2 0
	Total Works under control of Commission ..	35,041,827	4 0	771,992	6 2	34,269,834	17 10	2,319,467	10 2	31,950,367	7 8
J	Waterworks Trusts and Local Governing Bodies ..	5,638,471	6 6	874,528	2 9	4,763,943	3 9	2,470,166	3 8	2,293,777	0 1
		40,680,298	10 6	1,646,520	8 11	39,033,778	1 7	4,789,633	13 10	34,244,144	7 9

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, 1950.

—				Total.		Water Supply.		State Development Account.	
				£	s. d.	£	s. d.	£	s. d.
Net Loan Liability as per Treasurer's Finance Statement (Page 83) ..				34,771,343	15 11	4,760,728	12 4	30,010,615	3 7
Expenditure on account of Loans : (a) from Treasurer's Advance, £140,000 ; (b) from Public Account Advances, £460,931 9s. 5d. "Finance" (Page 98) ..				600,931	9 5	..	..	600,931	9 5
Add—				141,925	8 6	..	..	141,925	8 6
Cost of Geelong Works. "Finance" (Page 84) ..				..	..	..	..	..	..
National Debt Sinking Fund contributions from Consolidated Revenue pursuant to the provisions of the <i>Commonwealth and States Financial Agreement Act</i> 1927, No. 3554, as amended by Act No. 5051, 1944. "Finance" (Page 83). (These amounts not credited to Districts and Works excepting recoup contributions shown below) ..				4,033,163	3 2	552,201	14 1	3,480,961	9 1
National Debt Sinking Fund contributions in respect of Geelong Works. "Finance" (Page 84) ..				22,219	14 0	..	..	22,219	14 0
Less—				39,566,583	11 0	5,312,930	6 5	34,256,653	4 7
Redemption recoup contributions paid into Consolidated Revenue by Commission Districts and Works, Waterworks Trusts, &c. ..				523,296	12 7	523,296	12 7	12,508	16 10
Cash on hand held by Treasury ..				12,508	16 10	..	..	..	..
Totals of amounts at debit of Authorities and Districts and the Capital Expenditure borne by the State Account in the books of the Commission ..				39,033,778	1 7	4,789,633	13 10	34,244,144	7 9

## CAPITAL EXPENDITURE.

STATEMENT OF CAPITAL EXPENDITURE ON WORKS OF COUNTRY WATER SUPPLY, AS FROM THE DATE OF INCORPORATION OF THE STATE RIVERS AND WATER SUPPLY COMMISSION (1ST MAY, 1906) TO 30TH JUNE, 1950.

Year ended 30th June.	Total Expenditure and or Water Supply Loans Application Acts.				Total Capital Expenditure by Commission from Unemployment Relief Funds.				Total Capital Expenditure under Water Supply Loans Application Acts and from Unemployment Relief Funds.			
	During Year.		Progressive Total at Close of Year.		During Year.		Progressive Total at Close of Year.		During Year.		Progressive Total at Close of Year.	
	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.
1906 ..	..		5,885,066	12 4a	..		..		..		5,885,066	12 4a
1907 ..	161,346	7 4	6,046,412	19 8	..		..		161,346	7 4	6,046,412	19 8
1908 ..	276,582	17 0	5,881,843	15 0b	..		..		276,582	17 0	5,881,843	15 0b
1909 ..	313,615	11 3	6,195,459	6 3c	..		..		313,615	11 3	6,195,459	6 3c
1910 ..	286,823	8 3	6,482,282	14 6	..		..		286,823	8 3	6,482,282	14 6
1911 ..	311,709	7 4	6,793,992	1 10	..		..		311,709	7 4	6,793,992	1 10
1912 ..	259,281	0 11	7,053,273	2 9	..		..		259,281	0 11	7,053,273	2 9
1913 ..	267,560	1 11	7,320,833	4 8	..		..		267,560	1 11	7,320,833	4 8
1914 ..	229,126	17 0	7,549,960	1 8	..		..		229,126	17 0	7,549,960	1 8
1915 ..	304,766	9 9	7,854,726	11 5	..		..		304,766	9 9	7,854,726	11 5
1916 ..	347,134	18 5	8,201,861	9 10	..		..		347,134	18 5	8,201,861	9 10
1917 ..	302,893	11 7	8,504,755	1 5	..		..		302,893	11 7	8,504,755	1 5
1918 ..	302,954	14 7	8,807,709	16 0	..		..		302,954	14 7	8,807,709	16 0
1919 ..	412,267	8 3	9,219,977	4 3	..		..		412,267	8 3	9,219,977	4 3
1920 ..	570,028	2 4	9,790,005	6 7	..		..		570,028	2 4	9,790,005	6 7
1921 ..	692,658	14 1	10,482,664	0 8	..		..		692,658	14 1	10,482,664	0 8
1922 ..	968,047	8 8	11,450,711	9 4	..		..		968,047	8 8	11,450,711	9 4
1923 ..	1,210,484	8 9	12,661,195	18 1	..		..		1,210,484	8 9	12,661,195	18 1
1924 ..	1,415,109	1 5	14,076,304	19 6	..		..		1,415,109	1 5	14,076,304	19 6
1925 ..	1,471,566	4 7	15,547,871	4 1	..		..		1,471,566	4 7	15,547,871	4 1
1926 ..	1,521,533	5 9	17,069,404	9 10	..		..		1,521,533	5 9	17,069,404	9 10
1927 ..	1,541,900	16 9	18,611,305	6 7	..		..		1,541,900	16 9	18,611,305	6 7
1928 ..	1,792,407	15 9	20,403,713	2 4	..		..		1,792,407	15 9	20,403,713	2 4
1929 ..	1,516,022	14 3	21,919,735	16 7	..		..		1,516,022	14 3	21,919,735	16 7
1930 ..	1,208,567	12 6	23,128,303	9 1	..		..		1,208,567	12 6	23,128,303	9 1
1931 ..	696,146	5 2	23,824,449	14 3	..		142,703 0 0d		838,849	5 2	23,967,152	14 3
1932 ..	351,118	15 7	24,175,568	9 10	2,745 0 0		145,448 0 0		353,863	15 7	24,321,016	9 10
1933 ..	488,072	7 9	24,663,640	17 7	138,281 0 0		283,729 0 0		626,353	7 9	24,947,369	17 7
1934 ..	315,870	14 7	24,979,511	12 2	209,284 0 0		493,013 0 0		525,154	14 7	25,472,524	12 2
1935 ..	260,736	3 5	25,240,247	15 7	325,340 0 0		818,353 0 0		586,076	3 5	26,058,600	15 7
1936 ..	285,473	8 2	25,525,721	3 9	371,866 0 0		1,190,219 0 0		657,339	8 2	26,715,940	3 9
1937 ..	360,791	14 10	25,886,512	18 7	350,993 0 0		1,541,212 0 0		711,784	14 10	27,427,724	18 7
1938 ..	353,606	5 5	26,240,119	4 0	358,550 0 0		1,899,762 0 0		712,156	5 5	28,139,881	4 0
1939 ..	582,327	3 5	26,822,446	7 5	411,803 0 0		2,311,565 0 0		994,130	3 5	29,134,011	7 5
1940 ..	426,824	16 9	27,249,271	4 2	289,764 0 0		2,601,329 0 0		716,588	16 9	29,850,600	4 2
1941 ..	471,369	6 11	27,720,640	11 1	218,141 0 0		2,819,470 0 0		689,510	6 11	30,540,110	11 1
1942 ..	274,845	7 0	27,995,485	18 1	40,805 0 0		2,860,275 0 0		315,650	7 0	30,855,760	18 1
1943 ..	75,479	2 0	28,070,965	0 1	472 0 0		2,860,747 0 0		75,951	2 0	30,931,712	0 1
1944 ..	143,177	10 6	28,214,142	10 7	..		2,860,747 0 0		143,177	10 6	31,074,889	10 7
1945 ..	315,729	1 0	28,529,871	11 7	..		2,860,747 0 0		315,729	1 0	31,390,618	11 7
1946 ..	432,905	12 8	28,962,777	4 3	..		2,860,747 0 0		432,905	12 8	31,823,524	4 3
1947 ..	1,466,121	15 3	30,428,898	19 6	..		2,860,747 0 0		1,466,121	15 3	33,289,645	19 6
1948 ..	1,893,165	1 2	32,322,064	0 8	..		2,860,747 0 0		1,893,165	1 2	35,182,811	0 8
1949 ..	2,251,873	9 11	34,573,937	10 7	..		2,860,747 0 0		2,251,873	9 11	37,434,684	10 7
1950 ..	4,149,500	16 4	38,723,438	6 11	..		2,860,747 0 0		4,149,500	16 4	41,584,185	6 11

Notes.—(a) Total expenditure from "Loans—Country Water Supply" to 30th June, 1906, as per pages 106–108, "Finance, 1905–6" £5,885,066 12 4.

(b) During year ended 30th June, 1908, the Geelong Water Supply Works were sold to the Geelong Municipal Waterworks Trust. Geelong works excluded from Progressive Total, from and including year ended 30th June, 1908.

	£	s. d.
Department of Water Supply ..	2,592,777	16 0
State Rivers and Water Supply Commission ..	3,602,681	10 3
Total ..	6,195,459	6 3

During the year ended 30th June, 1910, the Department of Water Supply was merged into the Commission, and all Water Supply Works vested in the Department or the Board of Land and Works and placed under the control of the Commission.

(d) From 1930 until 1943 grants were received and expended by the Commission from Unemployment Relief Funds. The total amount so received and expended was £3,231,050, of which £2,860,747 was spent on capital works.

CAPITAL EXPENDITURE—*continued*.STATEMENT OF CAPITAL EXPENDITURE ON WORKS OF COUNTRY WATER SUPPLY—*continued*.  
RECONCILIATION STATEMENTS.

## (A) LOAN.

(i) "*Finance* 1949-50" pages 82 and 83 "Country Water Supply Capital Account," at 30th June, 1950 :—

	£	s.	d.
Expenditure from Loans .. .. .	34,081,875	14	7
Expenditure from State Loans Repayment Fund .. .. .	4,040,631	2	11
	38,122,506	17	6
Add—			
(Page 98) Expenditure from Treasurer's Advance .. .. .	140,000	0	0
(Page 98) Expenditure from Public Account Advances .. .. .	460,931	9	5
Total Loan Expenditure and Expenditure on Account of Loan, as above ..	38,723,438	6	11

(ii) *Annual Report*—

Total Loan Capital Expenditure, as per "Summary Statement of Loan Capital Accounts, as at 30th June, 1950" (page 115) .. .. . 40,680,298 10 6

Deduct Loan Discount Expenses,

	£	s.	d.
Less premiums ( <i>Finance</i> 1949-50, page 83) .. .. .	1,492,480	6	7
Geelong Works, Gross Expenditure 1949-50, page 84) ..	464,379	17	0
	1,956,860	3	7
Total Loan Expenditure at 30th June, 1950, as above .. .. .	38,723,438	6	11

## (B) UNEMPLOYMENT RELIEF FUNDS.

	£	s.	d.
Expenditure from Unemployment Relief Taxation Funds .. .. .	314,362	0	0
Unemployment Relief Loan Funds ("Finance, 1942-43," page 140) .. .. .	2,788,118	0	0
Commonwealth-State Joint Loan Fund (Winter Relief) .. .. .	85,012	0	0
Commonwealth Grants (Flood Restoration) .. .. .	43,558	0	0
Total expenditure in accordance with Employment Council Allocations, 6th February, (43-1511) .. .. .	3,231,050	0	0
Deduct Maintenance Expenditure .. .. .	370,303	0	0
Capital expenditure from Unemployment Relief Funds, as above .. .. .	2,860,747	0	0

**ESTIMATES 1950-51.**  
**PROPOSED DISBURSEMENTS.**

	Estimated Requirements.	Amount Provided in Budget.
	£	£
Coliban Works .. .. .	23,305	24,100
Irrigation, Water Supply and Drainage Districts .. .. .	394,934	344,300
Waterworks Districts .. .. .	229,681	176,048
Flood Protection and Carrum Drainage Districts .. .. .	8,528	12,000
Salaries of Permanent and Temporary Employees* .. .. .	721,861	721,861
General Expenditure* .. .. .	220,000	220,000
Removal of Sand Drift .. .. .	100,000	100,000
River Murray Works—Contribution by State .. .. .	28,875	28,875
Pay Roll Tax .. .. .	70,676	70,676
Subsidies to Waterworks Trusts and Local Governing Bodies to enable a Reduction of 33½ per cent. to be made in Water Rates .. .. .	635	635
Totals—Water Supply .. .. .	1,798,495	1,698,495
Assistance to certain Sewerage Authorities where suspension of works is being continued .. .. .	10,000	10,000
Subsidies to Sewerage Authorities in cases where the interest paid on capital liability is in excess of the rate of 3 per cent. .. .. .	25,000	25,000
Grant to Kerang Sewerage Authority in connexion with Reconditioning Works .. .. .	2,255	2,255
	1,835,750	1,735,750

\*To be apportioned over the above Districts.

**ESTIMATED RECEIPTS.**

	Estimated by Commission.	Amount Provided in Budget.
	£	£
Coliban Works .. .. .	58,000	58,000
Irrigation, Water Supply and Drainage Districts .. .. .	550,000	550,000
Waterworks Districts .. .. .	360,000	360,000
Flood Protection and Carrum Drainage Districts .. .. .	12,000	12,000
Other .. .. .	45,000	45,000
Recoup on account of amounts paid from Revenue in connexion with River Murray Commission, Loan Works, &c. .. .. .	529,000	529,000
	1,554,000	1,554,000
Add estimated Receipts to meet Interest—		
Waterworks Trusts and other Corporations .. .. .	23,000	23,000
Plant and Machinery, and Land .. .. .	2,800	2,800
Totals—Water Supply .. .. .	1,579,800	1,579,800

Estimated amount available from Revenues of Commission—  
“Paying” Districts to meet Interest .. £39,177.

## CONTRACTS.

STATEMENT of Contracts entered into during the year ended 30th June, 1950.

No.	Name of Contractor.	Work and Supply.	Amount.		
			£	s.	d.
3270	Gilmore Excavating Co. Pty. Ltd. ..	Construction of Channel—Central Gippsland ..	58,800	0	0
3271	Australian Cement Ltd. .. ..	8,000 tons cement—Districts generally .. ..	38,806	0	0
3272	G. W. Brown .. ..	Removal of buildings—Barooga .. ..	1,050	0	0
3273	J. S. Adams .. ..	Repairs to Bittern Reservoir—Mornington .. ..	3,382	0	0
3274	T. S. Nettlefold and Sons Pty. Ltd. ..	Supply of cement—Districts generally .. ..	11,900	0	0
3275	Bethune, F. N. .. ..	Sinking exploratory bore—Mornington Peninsula ..	938	0	0
3276	P. G. A. Welding Service Engineers ..	Construction of Weir Trestle—Mildura .. ..	1,800	0	0
3277	Earthworks (Aust.) Pty. Ltd. .. ..	Excavation of Channel—Goulburn Waranga .. ..	254,954	0	0
3279	Ruston and Hornsby Pty. Ltd. .. ..	Supply of Mine Locomotives—Districts generally ..	13,320	0	0
3281	Melbourne Tractor Co. Pty. Ltd. .. ..	Construction of storage—Jung .. ..	664	0	0
3283	Cement Gun Pty. Ltd. .. ..	Concrete lining of channel—Bellarine Peninsula ..	4,026	0	0
3284	L. F. Berryman .. ..	Construction of a measuring tank—Werribee .. ..	1,040	0	0
3285	Humes Ltd. .. ..	Supply concrete pipes—Robinvale .. ..	26,965	0	0
3286	Australian Cement Ltd. .. ..	Supply cement—Districts generally .. ..	59,700	0	0
3287	Melbourne Tractor Co. .. ..	Earthworks—Pine Lake—Horsham .. ..	4,730	0	0
3288	Thompsons (Castlemaine) Ltd. .. ..	Manufacture pumping unit—Merbein .. ..	5,761	0	0
3289	Victorian Industrial Sales and Service ..	Supply dragline excavators—Districts generally ..	36,430	0	0
3290	Cement Gun Pty. Ltd. .. ..	Concrete surfacing of stand-pipe—Ultimo .. ..	1,158	0	0
			525,424	0	0

## EXTENSIONS TO CONTRACTS.

1949-50—	£	£
(Approximately) .. ..	..	51,000

## CONTRACTS AT PIECEWORK RATES.

Channel Construction—						
Murray Valley .. ..	..	..	..	..	..	25,102
Heyfield .. ..	..	..	..	..	..	18,936
						44,038
Firewood Supplies .. ..	..	..	..	..	..	28,356
Miscellaneous—						
Carting cement .. ..	..	..	..	..	..	4,500
Supply sand, stone, &c. .. ..	..	..	..	..	..	15,359
Other .. ..	..	..	..	..	..	1,180
						21,039
						93,433
Grand Total .. ..						669,857

**THE STATE RIVERS AND WATER SUPPLY COMMISSION.**

**Head Office** .. 100-110 Exhibition-street, Melbourne, C.1.

**Branch Office** .. 31 Flinders-lane, Melbourne, C.1.

**L. R. East,**

**M.C.E., M.I.C.E., M.ASCE., M.I.E., Aust.,**

**Chairman.**

**H. W. McCay,**

**B.C.E., M.I.E. Aust., M.I.W.E.,**

**Deputy Chairman.**

**J. A. Aird,**

**B.S.Agr. (Cal.), B.Agr.Sc., Dip.Com.,**

**Commissioner.**

**STAFF.**

**PRINCIPAL OFFICERS.**

Secretary .. .. L. DUGGAN, J.P.

Assistant Secretary .. .. E. BROWN, J.P.

*Finance.*

Chief Finance Officer .. .. W. LAMBERT, J.P., B.Com., D.P.A., A.F.I.A.

Chief Accountant .. .. L. A. KING, A.I.C.A.

Assistant Chief Accountant .. .. C. P. HAY, Dip. Com. (Acting)

*General Administration.*

Staff and Industrial Officer .. .. G. F. PEDLOW, J.P.

Chief Stores Officer .. .. L. J. FALCONER, A.F.I.A., A.C.A.A.

Chief Clerk .. .. A. D. BROWN, L.I.C.A.

Records Officer .. .. H. C. BLAKE

Estates Officer .. .. J. F. HORWOOD

Chief Valuer .. .. E. R. INGLIS, L.S., M.V.I.S.

Librarian .. .. J. MCA. ROBERTSON (Acting).

*Engineering and Associated Branches.*

Chief Constructional Engineer .. .. C. L. SANDERS, C.E., L.S., A.M.I.C.E., M.ASCE.

Assistant Chief Constructional Engineer .. .. F. A. NEVILL, C.E., M.I.E. Aust.

Chief Designing Engineer .. .. R. G. KNIGHT, M.C., M.C.E., M.I.C.E., M.I.E. Aust.

Assistant Chief Designing Engineer .. .. R. A. HORSFALL, M.B.E., M.C.E., B.Mech.E.,  
A.M.I.E. Aust.

Chief Mechanical Engineer .. .. F. C. HODGSON, M.I.E. Aust.

Assistant Chief Mechanical Engineer .. .. T. S. MOFFATT, B.E.E., Dip.Mech.E., A.M.I.E. Aust.

Chief Surveyor .. .. A. J. ROBIN, M.V.I.S.

Assistant Chief Surveyor .. .. R. G. MASON, L.S., M.V.I.S.

Chief Irrigation Officer .. .. F. PENMAN, M.Sc., F.A.C.I.

Superintendent of Water Distribution .. .. N. G. FERGUSON.

Superintendent of Testing and Research .. .. J. M. MATHEW, B.M.E., A.M.I.E. Aust.

**MAJOR WORKS AND PROJECTS.**

Project.	Title.	Officer.
Eildon .. ..	Chief Engineer ..	E. D. SHAW, M.C.E., M.I.C.E., M.I.E. Aust.
	Assistant Chief Engineer	V. G. SWANSON, B.C.E., Assoc. MASCE., A.M.I.E. Aust.
	Executive Engineer ..	T. K. ANDERSON, B.C.E.
	Works Accountant ..	VACANT
Cairn Curran .. ..	Executive Engineer ..	M. C. MOYLAN, A.I.C.A.
	Works Accountant ..	N. M. WORNER, B.C.E., A.M.I.E. Aust.
Rocklands .. ..	Executive Engineer ..	O. E. RODER
	Works Accountant ..	J. H. STANDISH, B.C.E., A.M.I.E. Aust.
Central Gippsland .. ..	Executive Engineer ..	F. F. BLOOMFIELD, A.A.A.
	Works Accountant ..	F. M. SHAW, B.C.E., A.M.I.E. Aust.
Goulburn-Waranga Main Channel	Executive Engineer ..	VACANT
	Works Accountant ..	J. W. MOORE, C.E., A.M.I.E. Aust.
Murray Valley Irrigation Project	Executive Engineer ..	R. F. SWANELL
	Works Accountant ..	E. J. EDWARDS, Dip.C.E.
Toolondo Channel .. ..	District Engineer ..	R. S. DICKSON, B.E.
Tarago River Diversion Works ..	Assistant Engineer ..	R. A. MYERS
Central Plant Workshops, Bendigo	Manager ..	T. A. COMTE, A.F.I.A., A.C.I.S., L.C.A.
Hydraulic Experiment Station, Werribee	Accountant ..	M. LOVELY, B.E.
	Assistant Engineer ..	

## MAJOR WORKS AND PROJECTS—continued.

District.	Title.	Officer.
ENGINEERING AND ADMINISTRATIVE DIVISIONS.		
Wimmera-Mallee .. ..	Senior Divisional Engineer	L. N. WELCH, C.E., A.M.I.E. Aust.
Wimmera-Mallee Waterworks ..	Divisional Engineer ..	N. F. I. GODKIN, C.E., A.M.I.E. Aust.
Mallee Irrigation .. ..	Divisional Engineer ..	D. CLARK, Dip.Elec.E., Dip.Mech.E., A.M.I.E. Aust.
Goulburn .. ..	.. ..	H. E. HARDING, B.Sc.(Cal.)
Loddon .. ..	Divisional Engineer ..	F. ROGERSON, C.E., A.M.I.E. Aust.
Gippsland and Southern ..	Divisional Engineer ..	I. B. HUGHES, C.E., A.M.I.E. Aust.
Main Urban Supplies .. ..	Divisional Engineer ..	E. McD. WALKER, B.C.E., A.M.I.E. Aust.
Waterworks Trusts and Sewerage Authorities	Divisional Engineer ..	R. H. RICHMOND, B.C.E., A.M.I.E. Aust.
Reclamations .. ..	Divisional Engineer ..	E. J. LUPSON, L.S., A.M.I.E. Aust.
Rivers and Streams .. ..	Divisional Engineer ..	H. G. STROM, B.C.E., M.I.E. Aust.

## IRRIGATION DISTRICTS.

Administrative Centre.	District.	Title.	Officer.
<i>Goulburn System.</i>			
Shepparton ..	Katandra ..	District Engineer ..	H. F. BYHAM
	North Shepparton	Revenue Officer ..	E. D. G. CAMERON
	Shepparton		
	South Shepparton		
Tatura ..	Rodney ..	District Engineer ..	J. J. CUMMINS, B.C.E., A.M.I.E. Aust.
		Revenue Officer ..	G.A.R.S. McCALLUM
Tongala ..	Tongala-Stanhope	District Officer ..	C. GALLOP
	Deakin ..	Revenue Officer ..	N. H. BOASE
Rochester ..	Rochester ..	District Officer ..	G. V. ADAMS
	Campaspe ..	Revenue Officer ..	H. H. STANLAKE
Pyramid ..	Dingee ..	District Engineer ..	R. R. McDOWELL, B.C.E.
	Calivil ..	Revenue Officer ..	B. C. McCANNON
	Tragowel Plains		
Boort ..	Boort ..	District Engineer ..	A. C. PAUL, Dip.C.E.
		Revenue Officer ..	W. A. RICHARDS
<i>River Murray System.</i>			
<i>(a) Torrumbarry Weir.</i>			
Cohuna ..	Cohuna ..	District Officer ..	L. J. SCOTT
		Revenue Officer ..	W. J. WILSON
Kerang ..	Kerang ..	District Engineer ..	R. I. WALSH, A.M.I.E. Aust.
	Koondrook ..	Revenue Officer ..	W. B. MURPHY
	Mystic Park		
Swan Hill ..	Swan Hill ..	District Engineer ..	J. D. WALLIS
	Fish Point ..	Mechanical Engineer	P. H. TODD, A.I.N.A., M.I.Mar.E.(Lon.) (Tresco Pumping Station)
	Tresco ..	Revenue Officer ..	W. J. NORMAN
<i>(b) Yarrawonga Weir.</i>			
Cobram ..	Murray Valley ..	District Engineer ..	J. R. DUNNE, B.C.E.
		Revenue Officer ..	T. P. GRIGG, A.F.I.A.
<i>(c) Pumping.</i>			
Nyah West ..	Nyah ..	District Officer ..	W. H. E. BENTLEY
		Mechanical Engineer	L. V. LOVELL (Nyah Pumping Station)
		Revenue Officer ..	S. W. R. TRELFALL
Robinvale ..	.. ..	Assistant Engineer	W. W. H. WARE, B.E.
		Mechanical Engineer	R. J. CRANSTON (Robinvale Pumping Station)
		Revenue Officer ..	H. K. BEARE
Red Cliffs ..	Red Cliffs ..	District Engineer ..	J. D. LANG, B.C.E., A.M.I.E. Aust.
		Mechanical Engineer	E. C. G. LARSEN (Red Cliffs and Merbein Pumping Stations)
		Revenue Officer ..	A. W. HAYES, A.F.I.A.
	Merbein ..	District Officer ..	A. G. LAWSON
		Revenue Officer ..	A. S. HINKS

## IRRIGATION DISTRICTS—continued.

Administrative Centre.	District.	Title.	Officer.
<i>Gippsland and Southern Systems.</i>			
Bacchus Marsh	Bacchus Marsh ..	District Officer ..	R. T. SQUIRE
Werribee ..	Werribee ..	Revenue Officer ..	J. A. MILES
Maffra ..	Maffra-Sale ..	District Engineer ..	C. G. DETHRIDGE
		Revenue Officer ..	S. G. SHAW
<i>Rural Waterworks Districts.</i>			
Birchip ..	Birchip .. ..	District Engineer ..	R. DRUMMOND, B.C.E., A.M.I.E. Aust.
	Sea Lake ..	Revenue Officer ..	E. P. WATSON
	Wycheproof		
Charlton ..	Wychitella ..	District Engineer ..	G. R. UPSTILL, L.S.
		Revenue Officer ..	J. H. BYHAM
Hopetoun ..	Karkarooc ..	District Officer ..	A. M. MORGAN
	Tyrell West ..	Revenue Officer ..	E. BAXTER
Horsham ..	Western Wimmera	District Engineer ..	
	Upper Western Wimmera	Revenue Officer ..	A. A. DOUGLAS
	Hindmarsh ..		
Murtoa ..	Wimmera United	District Engineer ..	H. L. CREDLIN, A.M.I.E. Aust.
	Upper Wimmera United	Revenue Officer ..	A. T. HANSFORD
Ouyen ..	Tyrell .. ..	District Engineer ..	L. K. RICHARDSON, Dip.C.E., A.M.I.E. Aust.
	Walpeup West ..	Revenue Officer ..	G. A. MOON, A.I.C.A.
	Coreena .. ..		
Werrimul ..	Millewa .. ..	District Officer ..	C. V. FLETCHER
	Millewa Central ..	Mechanical Engineer	M. MILLER (Millewa Pumping Station)
	Carwarp .. ..	Revenue Officer ..	I. H. J. HELMAN
	Carwarp Central		
Nyah West ..	Long Lake ..	District Officer ..	W. H. E. BENTLEY
	Tyntynder ..	Mechanical Engineer	L. V. LOVELL (Nyah Pumping Station)
		Revenue Officer ..	S. W. R. TRELFALL
Red Cliffs ..	Yelta .. ..	District Engineer ..	J. D. LANG, B.C.E., A.M.I.E. Aust.
		Mechanical Engineer	E. C. G. LARSON (Red Cliffs and Merbein Pumping Stations)
		Revenue Officer ..	A. W. HAYES, A.F.I.A.
		District Officer ..	A. G. LAWSON (Merbein)
		Revenue Officer ..	A. S. HINKS (Merbein)
Kerang ..	Kerang North-West Lakes	District Engineer ..	R. I. WALSH, A.M.I.E. Aust.
		Revenue Officer ..	W. B. MURPHY
Pyramid ..	Loddon .. ..	District Engineer ..	R. R. McDOWELL, B.C.E.
	East Loddon ..	Revenue Officer ..	B. C. McCANNON
Boort ..	West Loddon ..	District Engineer ..	A. C. PAUL, Dip.C.E.
	Normanville ..	Revenue Officer ..	W. A. RICHARDS
URBAN CENTRES.			
<i>Coliban System.</i>			
Bendigo ..	.. ..	Executive Engineer	W. G. SIDES, L.S., M.V.I.S., A.M.I.E. Aust.
		Revenue Officer ..	G. E. IREDALE
Castlemaine ..	.. ..	Revenue Officer ..	J. W. J. GRIFFITHS, F.F.I.A., F.C.I.S., A.I.C.A., L.C.A.
<i>Mornington Peninsula System.</i>			
Frankston ..	.. ..	Executive Engineer	B. W. ROMBACH-SCHARP, B.C.E., A.M.I.E. Aust.
		Revenue Officer ..	L. W. L. ALLNUTT
Chelsea ..	.. ..	Revenue Officer ..	T. A. ROBERTS
Dandenong ..	.. ..	Revenue Officer ..	L. G. TAYLOR
Wonthaggi ..	.. ..	Revenue Officer ..	G. N. TURNER
<i>Otway and Bellarine Peninsula System.</i>			
Geelong ..	.. ..	District Engineer ..	R. C. SIMMONS, B.C.E., A.M.I.E. Aust.
		Revenue Officer ..	E. M. HOPKINS
Camperdown	.. ..	Revenue Officer ..	A. F. BRAY
<i>Flood Protection Districts.</i>			
Koo-wee-rup	Koo-wee-rup and Cardinia	District Officer ..	VACANT
		Revenue Officer ..	H. E. CURNICK



## APPENDIX A.

## STATE RIVERS AND WATER SUPPLY COMMISSION.

## IRRIGATION SYSTEMS.

## RETURN OF WATER DELIVERED—YEAR 1949-50.

District.	Water Assignment Measured at District Boundary.	Gross Supply at District Offtakes (excluding volumes passed to other Districts).	Total Water Rights Allotted to District.	Users in District.			Total Delivered in District.	Users Outside District from District Channels.	Total Delivered.	Users Outside District from Main Channels.
				Under Water Rights.	Sales of Water.	Domestic and Stock Purposes.				
<b>GOULBURN SYSTEM—</b>	acre feet. per annum.	acre feet.	acre feet.	acre feet.	acre feet.	acre feet.	acre feet.	acre feet.	acre feet.	acre feet.
(Main Eastern Channel).										
South Shepparton .. .. .	12,000	3,617	4,404	2,197	216	78	2,491	5	2,496	..
Shepparton .. .. .	51,000	30,059	21,289	15,138	481	150	15,769	99	15,868	..
North Shepparton .. .. .	44,000	(d) 24,639	13,201	7,258	824	115	8,197	2	8,199	6
Katandra .. .. .	13,000	9,214	7,329	6,194	742	128	7,064	..	7,064	..
<b>Totals .. .. .</b>	<b>120,000</b>	<b>67,529</b>	<b>46,223</b>	<b>30,787</b>	<b>2,263</b>	<b>471</b>	<b>33,521</b>	<b>106</b>	<b>33,627</b>	<b>6</b>
(Waranga Reservoir.)										
Rodney .. .. .	232,000	146,311	60,926	46,498	10,995	629	58,122	(a) 620	58,742	..
Tongala-Stanhope .. .. .	116,000	80,627	48,048	39,032	3,825	827	43,684	..	43,684	..
Deakin .. .. .	23,000	7,546	5,698	3,461	580	119	4,160	..	4,160	..
Rochester .. .. .	147,000	83,503	57,466	45,043	8,851	1,466	55,360	336	55,696	..
Dingee .. .. .	9,000	5,262	4,447	4,053	739	138	4,930	2	4,932	..
Calivil (including Loddon water)	21,000	16,848	6,505	5,116	2,449	198	7,763	..	7,763	(b) 10
Tragowel Plains (including Loddon water)	97,000	78,050	31,192	22,973	5,854	365	29,192	85	29,277	(b) 28
Boort (including Loddon water)	35,000	27,317	11,339	8,624	2,167	166	10,957	2,097	13,054	..
<b>Totals .. .. .</b>	<b>680,000</b>	<b>445,464</b>	<b>225,621</b>	<b>174,800</b>	<b>(f) 35,460</b>	<b>3,908</b>	<b>214,168</b>	<b>3,140</b>	<b>217,308</b>	<b>38</b>
<b>Goulburn Grand Totals .. .. .</b>	<b>800,000</b>	<b>512,993</b>	<b>271,844</b>	<b>205,587</b>	<b>37,723</b>	<b>4,379</b>	<b>247,689</b>	<b>3,246</b>	<b>250,935</b>	<b>44</b>
<b>MURRAY SYSTEM—</b>										
(Yarrawonga Weir.)										
Murray Valley .. .. .	196,000	(e) 78,129	53,318	30,805	4,045	165	35,015	93	35,108	..
(Torrumbarry Weir.)										
Cohuna .. .. .	122,000	94,909	49,262	41,626	4,786	1,183	47,595	190	47,785	..
Koondrook .. .. .	70,000	53,361	24,622	17,507	1,966	107	19,580	5	19,585	..
Kerang .. .. .	71,000	43,471	21,407	16,840	3,073	471	20,384	168	20,552	..
Third Lake .. .. .	6,000	4,534	2,513	1,381	74	..	1,455	35	1,490	..
Mystic Park .. .. .	7,000	2,116	2,677	1,337	195	..	1,532	175	1,707	..
Tresco .. .. .	6,000	3,549	..	..	1,909	..	1,909	..	1,909	..
Fish Point .. .. .	5,000	2,254	1,845	1,329	17	..	1,346	..	1,346	..
Swan Hill .. .. .	63,000	41,231	25,875	22,590	3,810	13	26,413	71	26,484	..
Pental Island Private Diversions	..	..	..	..	..	..	..	..	..	3,706
Kerang Private Diversions	..	..	..	..	..	..	..	..	..	549
Kerang North-West Lakes Private Diversions	..	..	..	..	..	..	..	..	..	4,336
Upper Gunbower Creek Private Diversions	..	..	..	..	..	..	..	..	..	3,808
Lower Gunbower Creek Private Diversions	..	..	..	..	..	..	..	..	..	7,055
Taylor's Creek Private Diversions	..	..	..	..	..	..	..	..	..	798
Kow Swamp Private Diversions	..	..	..	..	..	..	..	..	..	1,139
Pyramid Creek Private Diversions	..	..	..	..	..	..	..	..	..	2,665
<b>Torrumbarry Weir Totals .. .. .</b>	<b>350,000</b>	<b>245,425</b>	<b>128,201</b>	<b>102,610</b>	<b>(g) 15,830</b>	<b>1,774</b>	<b>120,214</b>	<b>644</b>	<b>120,858</b>	<b>24,056</b>
(Pumped from River Murray.)										
Nyah .. .. .	12,000	9,107	7,323	6,771	390	203	7,364	(b) 220	7,584	..
Robinvale .. .. .	11,000	7,627	..	..	4,374	..	4,374	..	4,374	..
Red Cliffs .. .. .	50,000	35,635	34,012	24,673	202	..	24,875	290	25,165	..
Merbein .. .. .	33,000	27,185	23,351	17,659	658	..	18,317	542	18,859	..
<b>Totals .. .. .</b>	<b>106,000</b>	<b>79,554</b>	<b>64,686</b>	<b>49,103</b>	<b>5,624</b>	<b>203</b>	<b>54,930</b>	<b>1,052</b>	<b>55,982</b>	<b>..</b>
<b>Murray Grand Totals .. .. .</b>	<b>652,000</b>	<b>403,108</b>	<b>247,205</b>	<b>182,518</b>	<b>25,499</b>	<b>2,142</b>	<b>210,159</b>	<b>1,789</b>	<b>211,948</b>	<b>24,056</b>
<b>CAMPASPE SYSTEM—</b>										
Coliban .. .. .	..	..	..	..	(c) 5,840	5,200	11,040	..	11,040	..
Campaspe .. .. .	(h)	2,322	..	..	568	106 (Dams)	669	23	692	..
<b>Totals .. .. .</b>	<b>..</b>	<b>2,322</b>	<b>..</b>	<b>..</b>	<b>6,408</b>	<b>5,306</b>	<b>11,709</b>	<b>23</b>	<b>11,732</b>	<b>..</b>
<b>WERRIBEE SYSTEM—</b>										
Bacchus Marsh .. .. .	(h)	5,152	3,316	2,613	611	49	3,273	(b) 732	4,005	..
Werribee .. .. .	12,000	12,512	8,149	5,791	763	82	6,636	(a) 238	6,874	..
<b>Totals .. .. .</b>	<b>12,000</b>	<b>17,664</b>	<b>11,465</b>	<b>8,404</b>	<b>1,374</b>	<b>131</b>	<b>9,909</b>	<b>970</b>	<b>10,879</b>	<b>..</b>
<b>MACALISTER SYSTEM—</b>										
Maffra-Sale .. .. .	(h)	38,644	23,088	15,534	1,002	522	17,058	223	17,281	..
<b>WIMMERA SYSTEM—</b>										
Quantong, Riverside, Burnlea, Haven, &c.	..	5,995	..	..	3,241	..	3,241	..	3,241	..
<b>PRIVATE DIVERSIONS (not included above) .. .. .</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>53,281</b>
<b>Totals .. .. .</b>	<b>..</b>	<b>980,726</b>	<b>553,602</b>	<b>412,043</b>	<b>75,242</b>	<b>12,480</b>	<b>499,765</b>	<b>6,251</b>	<b>506,016</b>	<b>77,381</b>
First Mildura Irrigation Trust .. .. .	(h)	38,406	30,200	27,800	3,660	70	31,530	80	31,610	..
<b>GRAND TOTALS .. .. .</b>	<b>(i) 1,464,000</b>	<b>1,019,132</b>	<b>592,802</b>	<b>439,843</b>	<b>78,902</b>	<b>12,550</b>	<b>531,295</b>	<b>6,331</b>	<b>537,626</b>	<b>77,381</b>
										<b>615,007</b>

(a) Includes Waterworks Trust. (b) Includes Urban Districts. (c) Includes 574 acre feet for mining. (d) Includes 4,450 acre feet passed into Broken Creek from Goulburn System. (e) Includes 594 acre feet passed into Broken Creek at Katamatite. (f) Includes 9,778 acre feet "out of season" Sales and 3,464 acre feet Supplementary Sales due to surplus water in channels. (g) Includes 775 acre feet "out of season" Sales and 1,055 acre feet Supplementary Sales. (h) Not expressed in acre feet. (i) Not including Campaspe, Bacchus Marsh, Maffra-Sale, and Mildura.

Total Supplementary Supply to Wimmera-Mallee from Goulburn System for period 1st July, 1949, to 30th June, 1950:—

	Acre Feet.
From Waranga Western Channel .. .. .	7,772
From Loddon River .. .. .	9,132
<b>Total .. .. .</b>	<b>16,904</b>

## APPENDIX B.

## STATE RIVERS AND WATER SUPPLY COMMISSION.

## DOMESTIC AND STOCK SYSTEMS.

Return of Water Delivered to Waterworks Districts during Waterings in Year 1949; measurements being made at Headworks or at Pumping Stations.

Districts.										Quantity.	Total.
										Acre feet.	Acre feet.
Wimmera-Mallee System—											
Wimmera River and Storages	..	..	..	..	..	..	..	..	..	62,694	
Loddon and Goulburn Water	..	..	..	..	..	..	..	..	..	..	
River Murray (Nyah Pump)	..	..	..	..	..	..	..	..	..	150	62,844*
Normanville (Loddon and Goulburn)	..	..	..	..	..	..	..	..	..	2,900	
West Loddon (Loddon and Goulburn)	..	..	..	..	..	..	..	..	..	3,431	
East Loddon (Goulburn)	..	..	..	..	..	..	..	..	..	654	
Loddon (Loddon)	..	..	..	..	..	..	..	..	..	868	7,853
River Murray—											
Millewa	..	..	..	..	..	..	..	..	..	11,610	
Coreena	..	..	..	..	..	..	..	..	..	1,241	
Yelta	..	..	..	..	..	..	..	..	..	620	
Carwarp	..	..	..	..	..	..	..	..	..	1,509	14,980
Grand Total	..	..	..	..	..	..	..	..	..	..	85,677

\* 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.	
							Wartook Inches.	Hopetoun. Inches.
1946 ..	17,880	7,312	18,600	26	26,583	70,401	47·05	13·18
1947 ..	21,313	5,216	21,588	160	18,517	66,794	44·41	16·34
1948 ..	31,627	3,130	25,292	113	22,809	82,791	36·30	11·93
1949 ..	26,460	3,664	32,570	150	11,633	74,477	33·77	11·47

In addition to above, the following Quantities have been released from Headworks at Pine Lake, Green Lake, and Doka Lake Storages for Irrigation Areas in Western Wimmera and Wimmera United Districts.

Year.										Area Watered.	Gross Supply Released from Headworks.
										Acres.	Acre-feet.
1946-47	..	..	..	..	..	..	..	..	..	2,921	8,763
1947-48	..	..	..	..	..	..	..	..	..	2,720	8,160
1948-49	..	..	..	..	..	..	..	..	..	2,730	8,190
1949-50	..	..	..	..	..	..	..	..	..	2,814	6,628

For figures for previous years see Forty-second Annual Report.

## 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.
1945 .. ..	19.6.45	20.2.46	247	1945 .. ..	10.12.45	1.3.46	82
1946 .. ..	5.6.46	17.1.47	227	1946 .. ..	4.9.46	17.10.46	44
1947 .. ..	15.4.47	10.10.47	179	1947 .. ..	13.10.47	12.12.47	31
1948 .. ..	26.4.48	6.1.49	256	1948 .. ..	1.6.48	4.7.48	34
1949 .. ..	26.4.49	12.11.49	201	1949 .. ..	2.7.49	10.8.49	40

The figures for the preceding ten years are given in the Commission's Forty-Second Annual Report.

MILLEWA.				MILLEWA CENTRAL.			
Year.	Commenced.	Completed.	Days.	Year.	Commenced.	Completed.	Days.
1945 .. ..	14.6.45	8.12.45	178	1945 .. ..	16.6.45	3.11.45	141
1946 .. ..	1.7.46	16.12.46	169	1946 .. ..	{ 5.7.46 19.7.46 }	{ 13.7.46 19.11.46 }	143
1947 .. ..	1.6.47	21.10.47	143	1947 .. ..	9.6.47	30.9.47	115
1948 .. ..	5.5.48	29.9.48	148	1948 .. ..	7.5.48	24.9.48	141
1949 .. ..	4.5.49	30.8.49	119	1949 .. ..	17.5.49	30.8.49	106

The figures for the preceding seven years are given in the Commission's Forty-Second Annual Report.

YELTA.				CARWARP.			
Year.	Commenced.	Completed.	Days.	Year.	Commenced.	Completed.	Days.
1945 .. ..	14.1.46	12.2.46	32	1945 .. ..	{ 24.10.45 6.11.45 23.1.46 }	{ 26.10.45 19.1.46 26.1.46 }	82
1946 .. ..	{ 8.9.46 28.10.46 }	{ 19.9.46 21.11.46 }	37	1946 .. ..	21.8.46	23.9.46	34
1947 .. ..	22.10.47	18.11.47	28	1947 .. ..	16.7.47	23.8.47	39
1948 .. ..	28.10.48	1.12.48	35	1948 .. ..	21.7.48	20.8.48	31
1949 .. ..	28.8.49	25.9.49	29	1949 .. ..	18.7.49	13.8.49	27

The figures for the preceding seven years are given in the Commission's Forty-Second Annual Report.

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 1937-38 :—

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.		Water run in—
1937-38 ..	5,969	376	6,345	12,713	7,724	61	Whole system (restrictions on minor races)
1938-39 ..	21,618	1,342	22,960	3,786	3,117	82	Main Channels only
1939-40 ..	51,452	2,226	53,678	24,673	13,282	54	Whole system
1940-41 ..	6,482	211	6,693	16,000	10,000	63	Whole system (restrictions on minor races)
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
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 ..	32,019	1,781	34,800	17,897	10,546	59	Whole system
1946-47 ..	42,386	2,344	44,730	26,136	15,086	58	Whole system
1947-48 ..	72,638	1,953	74,591	22,124	15,027	68	Whole system
1948-49 ..	44,741	2,568	47,309	24,288	16,659	69	Whole system
1949-50 ..	62,908	3,680	66,588	19,987	14,303	71	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.

## LANDS UNDER IRRIGATED CULTURE.

The two Statements hereunder show the extent of Areas Irrigated—

(A) During the last year in detail, and

(B) During the last five years totalled for the purposes of comparison.

(A) STATEMENT OF THE EXTENT OF IRRIGATION AND OF AREAS OF DIFFERENT KINDS OF CROPS WATERED  
—YEAR 1949-50.

Name of District.	Total Area of Holdings in Irrigation Districts in Acres.	Area classified as Irrigable within Constituted Districts In Acres.	Water Rights Appropriated (including Extra Water 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.	Annual.	Perennial.				
GOULBURN SYSTEM.														
Katandra .. .. .	13,970	11,188	7,329	7,605	630	340	..	20	2,268	4,339	..	..	8	..
North Shepparton .. ..	124,079	61,438	13,201	16,907	732	1,947	63	913	10,164	2,644	13	53	378	..
Shepparton .. .. .	24,360	21,289	21,289	20,121	36	796	12	2,402	3,048	2,747	141	8,690	2,177	72
South Shepparton .. ..	33,705	17,921	4,404	6,469	1,020	615	71	150	3,503	881	..	40	189	..
Rodney .. .. .	272,599	190,312	60,926	79,732	592	16,807	256	1,279	30,836	19,206	209	8,533	1,931	83
Tongala-Stanhope .. ..	76,139	47,622	48,048	40,955	30	2,496	12	870	12,423	23,302	17	1,715	90	..
Rochester .. .. .	182,000	56,995	57,466	62,300	949	5,531	111	6,073	20,892	27,176	5	867	517	179
Dingee .. .. .	8,823	4,447	4,447	4,194	130	24	..	48	1,287	2,680	..	..	15	10
Callivil .. .. .	61,140	32,527	6,505	11,960	1,489	368	88	1,137	4,071	4,588	..	22	157	40
Tragowel Plains .. ..	218,455	148,761	31,192	43,446	8,025	734	1,539	11,644	13,881	6,133	14	..	4	1,472
Deakin .. .. .	160,900	21,202	5,698	6,492	22	574	12	286	2,291	3,287	..	..	..	20
Boort* .. .. .	80,228	56,724	11,339	16,259	3,025	1,010	724	3,371	6,081	465	..	..	1	1,582
Totals .. .. .	1,256,398	670,426	271,844	316,440	16,680	31,242	2,888	28,193	110,745	97,448	399	19,920	5,467	3,458
RIVER MURRAY SYSTEM.														
(a) Torrumbarry Weir.														
Cohuna .. .. .	85,770	44,647	49,262	59,968	1,066	1,721	146	19,625	12,628	23,379	..	48	..	1,355
Koonbrook .. .. .	88,171	24,572	24,622	31,258	1,656	1,556	835	5,361	17,889	2,372	2	1,096	51	440
Swan Hill .. .. .	37,161	22,257	25,875	22,623	995	2,752	236	1,770	4,211	6,875	3,663	263	1,185	673
Third Lake .. .. .	11,483	3,771	2,513	2,542	92	52	52	222	1,952	164	..	..	..	8
Mystic Park .. .. .	20,274	7,805	2,677	2,788	522	60	138	863	227	784	15	..	35	144
Tresco .. .. .	3,482	2,000	..	1,078	..	17	..	..	..	..	915	146	..	..
Fish Point .. .. .	6,327	3,756	1,845	4,248	..	100	450	2,280	..	1,170	..	..	16	232
Kerang .. .. .	88,577	55,485	21,407	28,571	2,285	1,074	1,814	7,203	11,385	5,046	..	..	18	246
Kerang North-West Lakes ..	35,943	..	..	3,475	523	155	141	557	647	908	..	348	108	88
Lands supplied direct (Outside Districts) .. .. .	..	..	..	19,849	1,723	2,494	30	5,088	4,000	6,297	..	57	213	37
Totals .. .. .	377,188	164,243	128,201	176,400	8,862	9,981	3,342	42,969	52,939	46,905	4,595	1,958	1,626	3,223
(b) Yarrawonga Weir.														
Murray Valley .. .. .	268,027	125,135	54,318	33,285	1,610	8,737	149	1,644	12,265	5,693	39	2,618	521	9
(c) Direct from River by Pumping														
Nyah .. .. .	3,838	2,703	7,323	2,965	60	53	55	22	31	79	2,482	117	66	..
Red Cliffs .. .. .	30,965	11,284	34,012	11,638	..	107	65	..	40	..	10,876	437	113	..
Merbein .. .. .	10,518	7,621	23,351	8,153	15	64	150	98	63	..	7,090	540	95	38
Robinvale .. .. .	2,658	2,079	..	1,458	..	..	..	..	..	..	1,275	150	..	23
Totals .. .. .	47,979	23,687	64,686	24,214	75	224	270	120	134	79	21,723	1,244	274	71
Totals (River Murray System) .. ..	693,194	313,065	247,205	233,899	10,547	18,942	3,761	44,733	65,338	52,677	26,357	5,820	2,421	3,303
LODDON AND OTHER NORTHERN SYSTEMS.														
Boort .. .. .	..	..	..	856	159	53	38	178	321	24	..	..	..	83
East Loddon .. .. .	..	..	..	615	324	..	..	47	244	..	..	..	..	..
Loddon .. .. .	..	..	..	39	..	..	..	12	27	..	..	..	..	..
West Loddon .. .. .	..	..	..	3,983	907	91	19	55	519	..	..	2	3	2,387
Coliban .. .. .	..	10,970	..	7,474	40	471	65	688	760	734	9	3,324	1,383	..
Campaspe .. .. .	19,725	..	..	1,019	378	232	..	297	29	82	..	1	..	..
Western Wimmera .. ..	..	3,097	..	2,671	..	259	..	20	49	854	56	990	389	54
Wimmera United .. ..	..	162	..	127	..	67	..	26	34	..	..	..	..	..
Totals .. .. .	19,725	14,229	..	16,784	1,808	1,173	122	1,323	1,983	1,694	65	4,317	1,775	2,524
SOUTHERN SYSTEMS.														
Bacchus Marsh .. .. .	6,760	3,314	3,316	3,013	12	574	17	797	..	1,207	..	133	204	69
Werribee .. .. .	9,703	8,148	8,149	7,678	..	696	358	..	3,592	..	..	374	2,658	..
Maffra-Sale .. .. .	54,221	23,072	23,088	20,782	16	1,084	204	..	143	19,313	..	..	8	14
Mornington Peninsula ..	..	..	..	1,663	..	..	..	..	..	..	..	..	1,184	479
Bellarine Peninsula .. ..	..	..	..	80	..	6	..	..	..	..	..	..	74	..
Totals .. .. .	70,684	34,534	34,553	33,216	28	2,360	579	797	143	24,112	..	507	4,128	562
MILDURA AND PRIVATE DIVERSIONS.														
First Mildura Trust District ..	44,000	15,000	..	12,958	..	220	138	..	..	..	11,700	900	..	..
Private Diversions—Kerang (outside district) .. ..	..	..	..	2,975	312	107	42	660	1,665	189	..	..	..	..
Other Private Diversions throughout the State .. ..	..	..	..	46,018	5,930	6,051	373	2,796	5,577	13,276	2,841	3,770	2,647	2,757
Totals .. .. .	44,000	15,000	..	61,951	6,242	6,378	553	3,456	7,242	13,465	14,541	4,670	2,647	2,757
Grand Totals 1949-50	2,084,001	1,047,254	553,602	662,290	35,305	60,095	7,903	78,502	185,451	189,396	41,362	35,234	16,438	12,604
Grand Totals 1948-49	2,071,037	1,031,425	544,712	722,968	62,123	62,071	9,937	104,387	203,064	176,416	40,258	35,890	13,880	14,942

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

(B) COMPARATIVE STATEMENT OF THE EXTENT OF IRRIGATION—1945-46 TO 1949-50.

Source of Supply.	Area under Irrigation (Acres).				
	1945-46.	1946-47.	1947-48.	1948-49.	1949-50.
Goulburn System .. .. .	326,516	345,044	337,700	364,113	316,440
River Murray System .. ..	229,076	250,841	230,568	244,959	233,899
Loddon and Other Northern Systems .. ..	12,808	15,115	14,776	18,160	16,784
Southern Systems .. .. .	32,087	36,878	38,355	35,622	33,216
Mildura Trust and Private Diversions .. ..	55,758	60,712	65,449	60,114	61,951
<b>Totals .. .. .</b>	<b>656,845</b>	<b>708,590</b>	<b>686,848</b>	<b>722,968</b>	<b>662,290</b>

## 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 1,974,260 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), has a capacity of 1,250,000 acre feet. When the final stage of this work has been completed and the Rocklands, Cairn Curran, and Glenmaggie Reservoirs are completed, the combined capacities of Victoria's storages will be 2,778,760 acre feet.

## EXISTING STORAGES.

Storage.	Full Supply Reduced Level.		Capacity.	
	Feet.		Acre feet.	Acre feet.
<i>Goulburn System—</i>				
Eldon .. .. .	823·00		306,000	
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
<i>Murray—Loddon System—</i>				
Hume Reservoir .. .. .	1,250,000			
Yarrowonga 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	
<i>Kerang-North West Lakes—</i>				
Third, Middle, Reedy .. .. .	244·75			
Kangaroo, Racecourse, Charm .. .. .	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
<i>Wimmera-Mallee System—</i>				
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	
Dock 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 .. .. .			4,970	
				206,840
<i>Maffra-Sale System—</i>				
Glenmaggie .. .. .	244·00		104,500	
Service Basins (Stratford, Heyfield) .. .. .			40	
				104,540
<i>Coliban System—</i>				
Upper Coliban .. .. .	1,652·00		25,700	
Malmesbury .. .. .	1,477·00		14,400	
Lauriston .. .. .	1,574·20		16,000	
Spring Gully .. .. .	899·00		2,000	
Subsidiary Reservoirs .. .. .			4,630	
				62,730
<i>Werribee System—</i>				
Pykos Creek .. .. .	1,306·00		19,400	
Melton .. .. .	273·00		15,500	
				34,900
<i>Bellarine Peninsula System—</i>				
Wurdee Boluc .. .. .	441·50		10,000	
Service Basins .. .. .			850	
				10,850
<i>Mornington Peninsula System—</i>				
Lysterfield .. .. .	221·50		3,400	
Beaconsfield .. .. .	340·00		740	
Frankston .. .. .	255·00		660	
Mornington .. .. .	244·00		260	
Bittern .. .. .	250·00		480	
Service Basins .. .. .			260	
				5,800
<i>Otway System—</i>				
Service Basins .. .. .				1,080
<i>Miscellaneous—</i>				
Eppalock .. .. .	530·00		1,200	
Wonthaggi .. .. .	238·00		1,550	
Wonthaggi Service Basins .. .. .			10	
Newstead .. .. .	806·00		30	
				2,790
<b>Total Capacity of Existing Storages</b> .. .. .				<b>1,974,260</b>
<b>ADDITIONAL STORAGE BEING PROVIDED BY WORKS IN COURSE OF CONSTRUCTION.</b>				
<i>Wimmera-Mallee System—</i>				
Rocklands .. .. .	644·00			264,000
<i>Murray-Loddon System—</i>				
Cairn Curran .. .. .	684·00			120,000
<b>FURTHER STORAGE WHICH WILL BE PROVIDED WHEN GATES ARE INSTALLED ON THE RESPECTIVE SPILLWAYS.</b>				
<i>Maffra-Sale System—</i> Glenmaggie to 150,000 acre feet .. .. .	255·00		45,500	
<i>Murray System—</i> Hume Reservoir to 2,000,000 acre feet half share to Victoria) .. .. .	626·00		375,000	
				420,500
<b>TOTAL CAPACITY OF STORAGES WHEN WORKS ARE COMPLETED</b> .. .. .				<b>2,778,760</b>

(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.

1949-50.

## 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 .. .. .	20,189* square miles = 12,921,130* acres
Area of Irrigation Districts and other lands supplied for Irrigation .. .. .	2,438,570* acres
Area Irrigated (1949-50) .. .. .	622,290 acres
Area within Flood Protection Districts .. .. .	148,910* acres
Area within Drainage Districts .. .. .	18,450* acres

\* Gross area.

## AVERAGE ANNUAL RAINFALL.

Over State (87,884 square miles) .. .. .	10 inches to 80 inches
Under 15 inches .. .. .	18,701 square miles = 21.3 per cent. of area of State
15 inches to 20 inches .. .. .	13,800 " " = 15.7 " " "
20 " 25 " .. .. .	13,551 " " = 15.4 " " "
25 " 30 " .. .. .	14,528 " " = 16.5 " " "
30 " 40 " .. .. .	15,802 " " = 18.0 " " "
40 " 50 " .. .. .	6,871 " " = 7.6 " " "
50 " 60 " .. .. .	2,660 " " = 3.0 " " "
Over 60 inches .. .. .	2,171 " " = 2.5 " " "
Total .. .. .	87,884

## WATERWORKS—

## Controlled by Commission—

## Storages—

Number of large reservoirs .. .. .	35
Number of subsidiary reservoirs and service basins .. .. .	234
Total capacity of storages, 537,490 million gallons = 1,974,260* acre feet.	
* Includes half share of Hume Reservoir and other River Murray Works.	

## Channels—Length—

Irrigation .. .. .	4,643 miles
Domestic and Stock .. .. .	8,505 miles
Drainage and Flood Protection .. .. .	2,073 miles
Total .. .. .	15,221 miles

## Pipe Lines—Length—

Mains .. .. .	260 miles
Reticulation .. .. .	900 miles
Total .. .. .	1,160 miles

## Tanks—Excavated—

Number in Wimmera-Mallee Waterworks Districts .. .. .	260 tanks
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## Bores—

Number in Waterworks Districts .. .. .	57 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) .. .. .	526,875 acre feet
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## RURAL DISTRICTS—

## Administered by Commission—

	Number of Districts.	Number of Assessments.	Population.
Irrigation Districts .. .. .	29 ..	13,409 ..	38,882
Waterworks Districts (including rural lands, Coliban System) .. .. .	35 ..	20,589 ..	56,275
Flood Protection Districts .. .. .	4 ..	1,431* (43)	4,058* (88)
Drainage District .. .. .	1 ..	4,871	5,100
Totals .. .. .	69 districts	40,300 assessments	104,315 persons

\* Excluding figures in brackets which show the number of assessments 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 .. .. .	129 ..	148,140 persons
" " Waterworks Trusts .. .. .	120 ..	243,200 "
" " Local Governing Bodies .. .. .	15 ..	78,950 "
Totals .. .. .	264 towns	470,290 persons

## SEWERAGE AUTHORITIES—

	Number of Towns.	Population.
Controlled by Local Authorities supervised by Commission .. .. .	25 (Systems operating)	175,750 persons
	3 (Systems partly operating)	6,650 "
	26 (Systems not operating)	61,960 "
Totals .. .. .	54 towns	244,360 persons

## CAPITAL LIABILITY FOR WATER SUPPLY—

Total to 30th June, 1950—(a) Borne by the State .. .. .	£34,244,144
(b) Borne by the Districts .. .. .	£4,789,634
Total .. .. .	£39,033,778



BEEF.  
£ 550,000.

PIGMEATS.  
£ 700,000.



POULTRY AND EGGS.  
£ 1,100,000.



CEREALS, SEEDS, HAY, ETC.  
£ 1,500,000.



VEGETABLES.  
£ 1,650,000.



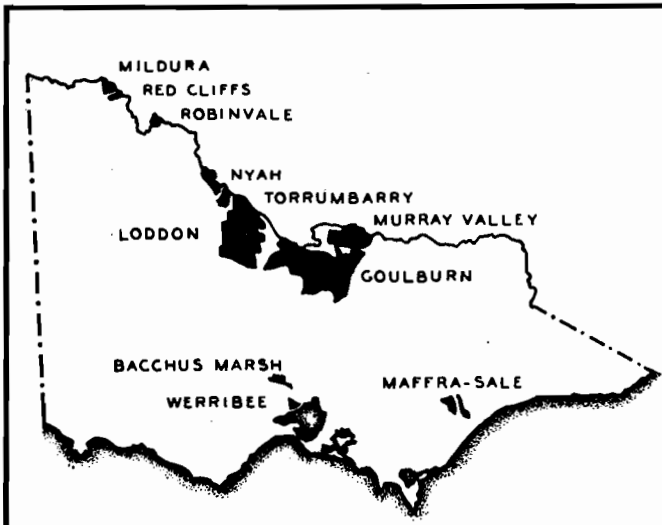
LAMB, MUTTON & WOOL.  
£ 3,400,000.



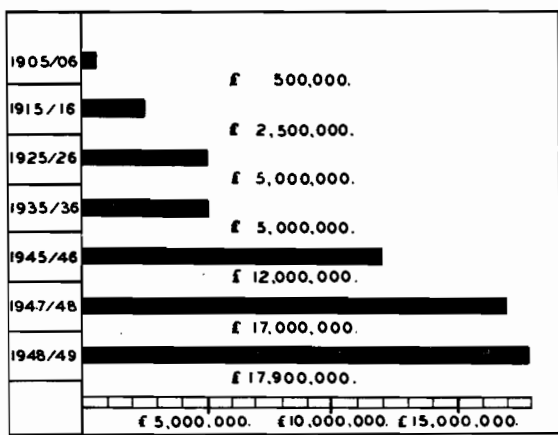
DAIRYING  
£ 4,600,000.



FRESH, DRIED AND CANNED FRUIT  
£ 4,400,000.

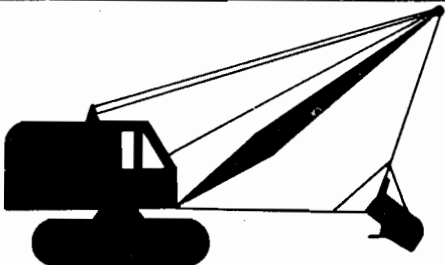

















VALUE OF PRIMARY PRODUCTION  
IN IRRIGATION AREAS  
1948 - 49





VICTORIA  
STATE RIVERS AND WATER SUPPLY COMMISSION  
**CONSTRUCTION PLANT**

UNIT	TOTAL NUMBER OF UNITS		
	1940	1945	1950
 DRAGLINE EXCAVATORS	17	25	67
 TRENCH EXCAVATORS	—	—	4
 CRAWLER TRACTORS	6	15	110
 LARGE SCRAPERS	1	10	57
 WHEEL TRACTOR-SCRAPERS	—	—	15
 WHEEL TRACTORS	3	5	57
 TRACTOR MOUNTED CRANES	—	—	19

CONSTRUCTION PLANT (CONTINUED)			
UNIT	TOTAL NUMBER OF UNITS		
	1940	1945	1950
 ROAD GRADERS	2	4	13
 COMPRESSORS	17	17	62
 CONCRETE MIXERS	38	70	127
 LOCOMOTIVES	4	6	15
 MINE CAR LOADERS	—	—	6
 TRANSPORTERS	—	1	4
 HEAVY TRUCKS	—	6	106
 LIGHT TRUCKS	57	78	137
 SEDAN CARS	6	9	26

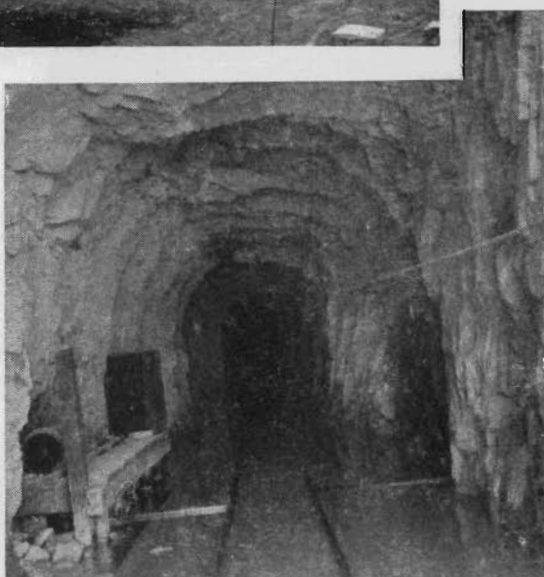


At left.—Rocklands Dam.—Looking along downstream face of dam. Six-ton portal crane for handling formwork at right.



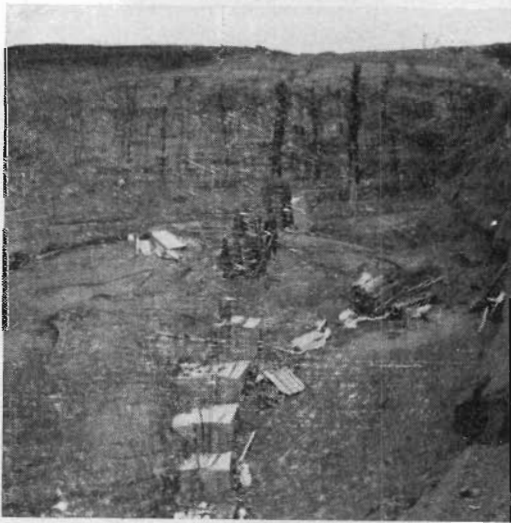
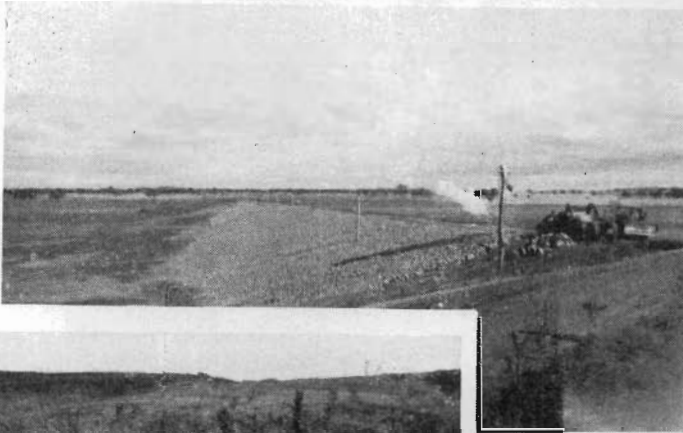
Above.—Rocklands Dam.—General view of progress at stage when top of concrete had reached a level 25 feet below crest of spillway.

At right.—Outlet Tunnel through which the waters of the Glenelg River will be diverted northward for Wimmera-Mallee domestic and stock supply. Driving of the tunnel, which is 10 feet high and 9 feet wide, was completed during the year.



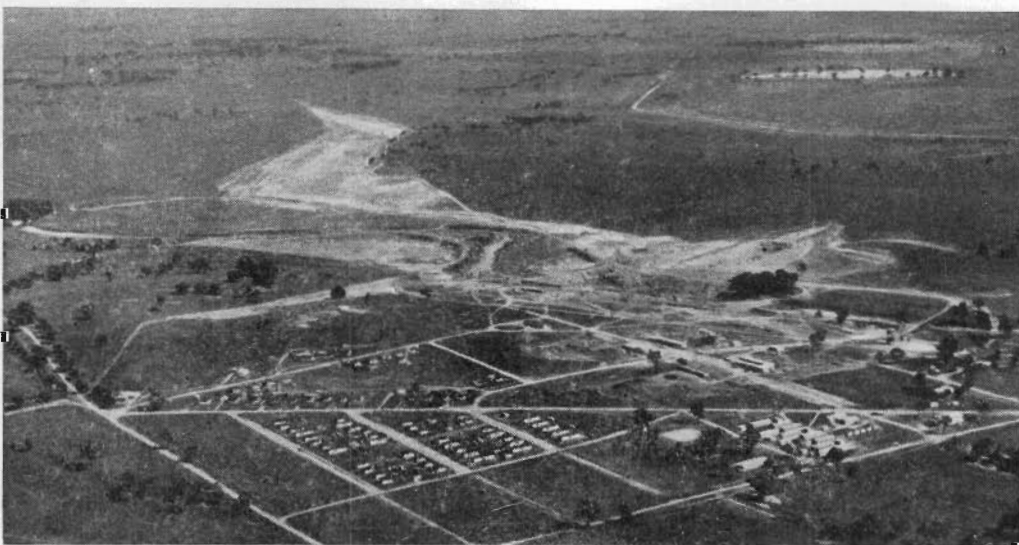
Reinforced concrete bench flume on Rocklands Outlet Channel. The flume is 10 feet wide and 6 feet high.

At Right.—Loddon River.  
—Flow passing through the  
diversion culvert at Cairn  
Curran Dam. The culvert  
which is 26 feet in  
diameter, was completed  
during the year.



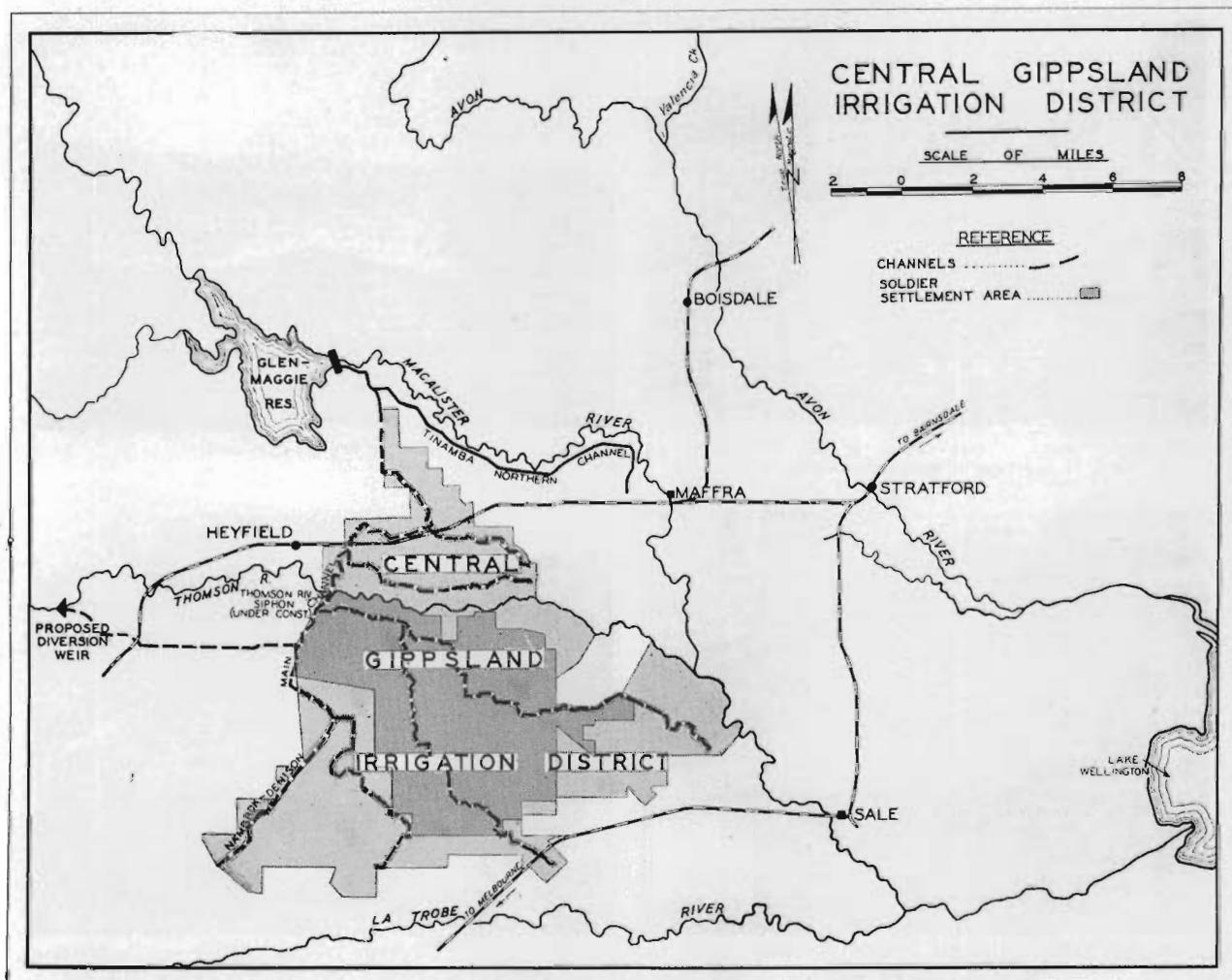
Above.—Supplementary Bank at Cairn  
Curran Dam.—View of upstream face  
with stone beaching being placed in  
position.

Left.—Cairn Curran Dam.—Reinforced  
concrete core wall under construction in  
deep foundations of main bank. Depth of  
foundations at this point is approximately  
85 feet.



CAIRN CURRAN DAM.

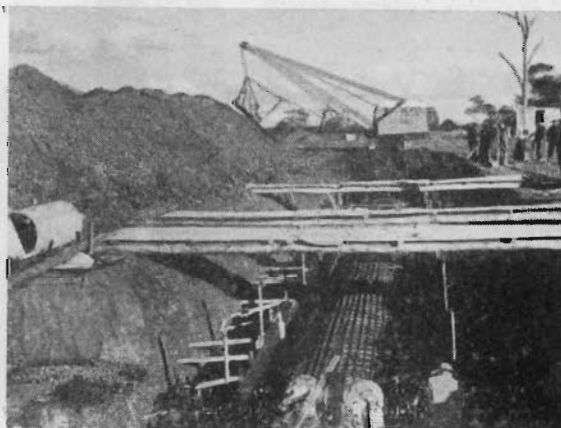
Aerial View of Works Area and Township—(Photo by courtesy V.I.A. Ltd.).



CENTRAL GIPPSLAND IRRIGATION DISTRICT.  
Map showing location of district and headworks.



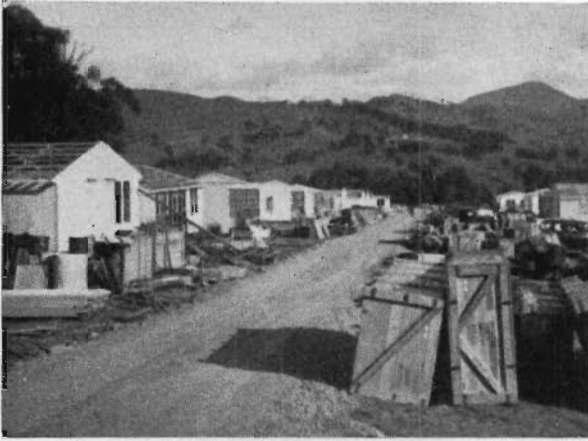
GLENMAGGIE DAM.  
View of downstream face of spillway.



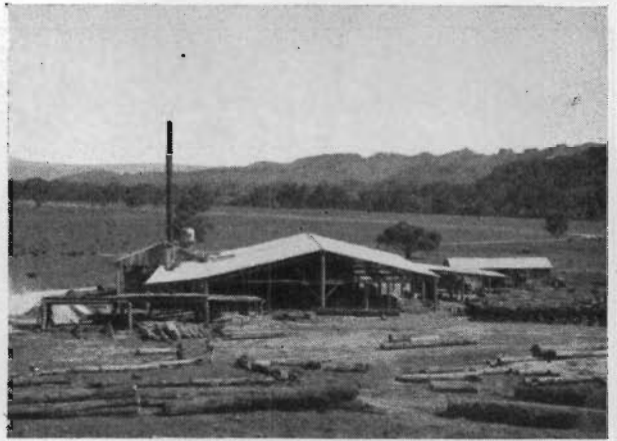
THOMSON RIVER SIPHON.

This siphon, 7 feet diameter and 4,400 feet long, will carry water from Glenmaggie Reservoir beneath the Thomson River. Capacity of the siphon will be 400 cusecs. At left.—Inlet to siphon. At right.—Reinforcement in position prior to pouring concrete.





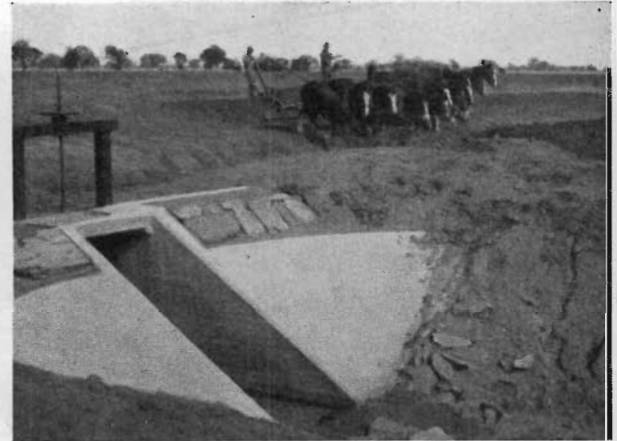
1. Eildon Project.—Prefabricated houses in course of erection in new township.



2. Eildon Project.—Sawmill.



3. Murray Valley Irrigation District.—Loading sand for use in channel structures.



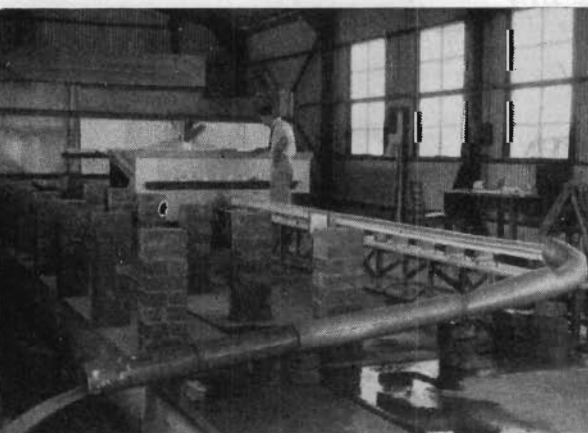
4. Murray Valley Irrigation District.—Horse team excavating channel. Completed off-take regulator at left.



5. Murray Valley Irrigation District.—Homestead in the soldier settlement area.



6. Murray Valley Irrigation District.—Preparing land for irrigation on soldier settlement holding.



7. Werribee Hydraulic Research Station.—Interior view—experiment in progress.



8. Mornington Peninsula District.—Bulldozer clearing scrub near site of tunnel for diversion of Tarago River.