

1941.

VICTORIA.

STATE RIVERS AND WATER SUPPLY COMMISSION.

THIRTY-SIXTH

ANNUAL REPORT,

1940-41.

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WATER ACT 1928.

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STATE RIVERS AND WATER SUPPLY COMMISSION.

Treasury Gardens,
Melbourne, C2,

24th November, 1941.

ANNUAL REPORT, 1940-41.

In compliance with the provisions of the *Water Act* 1928, the State Rivers and Water Supply Commission has the honour to present to Parliament the following Report and Statement for the Financial Year 1940-41, 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.

W. A. ROBERTSON, Commissioner.
M.C.E., Inst. M.C.E., M.I.E., Aust.

H. HANSLOW, Commissioner.

L. DUGGAN,
Secretary.

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ANNUAL REPORT

OF

THE STATE RIVERS AND WATER SUPPLY COMMISSION

FOR

YEAR ENDED 30TH JUNE, 1941.

PART I.—SUMMARY OF REPORT.

GENERAL.

1. The State Rivers and Water Supply Commission was constituted on 1st May, 1906, under the provisions of the Water Act 1905.	
2. This Report covers the period 1st July, 1940, to 30th June, 1941.	Page
3. A number of new Acts affecting water supply administration was passed by Parliament during the year	7-9
4. The Carrum Water works Trust is to be abolished and the lands included in the Trust District are to be deemed to be a drainage district to be known as the Carrum Drainage District under the administration and control of the Commission as on and from 1st July, 1941	7
5. Further works of water supply, drainage, and sewerage for a number of military camps have been carried out by the Commission on behalf of the Commonwealth Government	7
6. The question of placing the administration of the Loddon United Waterworks Trust on a uniform basis under the Water Acts has been considered by the Commission	11

WATER SUPPLY.

7. The total capacity of water storages controlled by the Commission is 1,963,460 acre feet ..	Appendix E
8. The total net annual valuation of properties within irrigation and water supply and waterworks districts and the urban divisions and districts thereof, including the Coliban System, amounted to £3,579,986, indicating a total capital value of over £71,000,000.	42
9. The total number of rating assessments in the districts supplied with water by the Commission is 80,651, and the population dwelling in such districts totals 232,802.	42
10. The total area of lands supplied with water for domestic and stock purposes by channels, tanks, and bores was 15,142,000 acres	17
11. Owing to very dry conditions during the winter of 1940, the supply of water for irrigation was commenced in August of that year	17
12. The total area irrigated during the year was a record one of 596,662 acres, the largest area previously irrigated in any one year being 590,112 acres in 1937-38.	Appendix D
13. The total quantity of water delivered to water-users from the Commission's works reached a new record of 698,121 acre feet, of which 654,851 acre feet, including 70,217 by pumping, were delivered to landholders within irrigation districts and 43,270 acre feet to lands outside Commission districts ..	17
14. Considerable progress has been made with the extension of the channel system of the Murray Valley Irrigation District	19-20
15. The Commission has given consideration to the question of the apportionment of Victoria's total allocation of 1,000,000 acre feet of water per annum from the River Murray at Albury ..	10
16. Definite policies in regard to the Murray and Goulburn Systems to safeguard existing irrigation development while permitting of the maximum utilization of the available natural resources in water and land have been formulated. Attention is drawn to the importance of "water rights" as a basis for the permanent development of holdings in irrigation districts	10-11
17. The question as to the practicability and desirability of providing additional water storage for the irrigators in the Bacchus Marsh and Werribee Districts is being investigated by the Parliamentary Public Works Committee	10
18. The Parliamentary Public Works Committee has recommended to the Government the construction of a storage reservoir on the Little River in the vicinity of Little River Township	9
19. Soil surveys are being continued in the Shepparton and Murray Valley Irrigation Districts ..	12

TOWN SUPPLIES.

20. Owing to the low condition of the main storages it was necessary to impose some restrictions on the use of water in the Coliban District	Page 20-21
21. Important works were completed or put in hand during the year to provide improved water supplies to Bendigo, Castlemaine, and a number of towns served by the Coliban System. See also item 33..	20-21
22. Duplication of the headworks of the Mornington Peninsula District has been practically completed	21
23. The towns of Dromana, Rosebud, Rye, Sorrento, and Portsea are now supplied with water from the Mornington Peninsula System	21
24. In Bellarine Peninsula District, the construction of the tunnel connecting the east and west branches of the Barwon River was completed	22
25. Although a drought was encountered, full supplies of water were maintained in the 37 towns connected to the Wimmera-Mallee System	22

DOMESTIC AND STOCK SUPPLIES.

26. On account of the small quantity of water in the storages, it was necessary, before a commencement was made with the Wimmera-Mallee annual watering, for supplementary supplies to be provided from the Loddon and Goulburn Systems and to pump water from the River Murray at Nyah and from Pine Lake Reservoir	22-23
27. The proposal, referred to in the last Annual Report, to utilize water from Glenelg River to supplement the Wimmera-Mallee System was approved and the works were put in hand	23
28. In the Mallee, the problem of sand drift is still serious and during 1940-41 the cost to the Commission for cleaning sand drift from channels was £77,168. The average cost of channel cleaning for each of the past twelve annual waterings has been £71,395	23
29. During the year under review the largest competition yet sponsored by the Commission was inaugurated, i.e., the Manslow Cup Competition for the "Best Effort to Control Soil Drift on a Mallee farm"	12

PUMPING.

30. In connexion with the electrification of the old steam-operated pumping plant at Merbein, three new units were installed and on load for the first irrigation in August, 1940	24
31. The installation of a new pumping plant for the Nyah Irrigation District will be completed in time for the first irrigation in the 1941-42 season	24

MAIN STORAGES.

32. Further progress has been made with the work of placing additional material on the embankment of Hume Reservoir	24
33. With the exception of the installation of the steel spillway gates, construction work on the Lauriston Reservoir was practically completed	25
34. Preliminary work has been put in hand on the Rocklands Reservoir, a concrete gravity section dam with a capacity of 264,000 acre feet to be constructed on the Glenelg River	26

INVESTIGATIONS.

35. In connexion with the survey of the Water Resources of Victoria, further investigations have been made into the possibilities for further storages on the Werribee, Loddon, and Avoca Rivers and the practicability of reducing water losses within the Torrumbarry System	28-29
36. An Engineer of the Commission visited the United States of America to study the latest practice in that country in the investigation of factors affecting the stability of earth dams	29

WATERWORKS TRUSTS.

37. Many important water supply works were carried out by Waterworks Trusts and Local Governing Bodies, of which there are now 117 and 17 respectively	29-30
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DRAINAGE.

38. Drainage works throughout irrigation districts were continued during the year. Extensions of existing systems were carried out; a commencement was made with the construction of the Dingee drainage system; and proposals for the drainage of the Murrabit area of the Koondrook District were investigated	30-31
39. Flood protection works in the Kooweerup District were continued. Two 2½ cubic-yard capacity dragline excavators were put into operation	31

SEWERAGE.

40. Of 11 sewerage schemes under construction at the beginning of the year, 5 were completed and 6 well advanced	32
41. There are now 38 Sewerage Authorities in country centres and schemes are in operation in 23 Sewerage Districts	32

RIVER IMPROVEMENT WORKS.

42. Further grants totalling £10,300 were made from the Rivers and Streams Fund towards the cost of works for removing obstructions from streams and protecting the beds and banks from erosion ; the total amount granted from this Fund to date is £88,300	Page 32
43. Protective works on the Avon River at Stratford successfully withstood a flood in January, 1941 ; and additional works were carried out on the the River Murray near the lower effluence to Wodonga Creek at Albury	32
44. The Parliamentary Public Works Committee made an inquiry and submitted recommendations in connexion with the construction of further works for the alleviation of flooding in the Snowy River	9-10

FINANCE.

45. The total receipts for water rates and charges for the financial year 1940-41 amounted to £611,235 as compared with the previous year's record of £615,277	44
46. The net Loan Liability of the State for works of water supply and drainage at 30th June, 1941, was £27,619,239, exclusive of equity in National Debt Sinking Fund	81
47. Of the net Loan Liability at 30th June, 1941, £1,986,736 is charged to Waterworks Trusts and other Local Water Authorities, £3,995,601 is debited to districts directly controlled by the Commission, £61,147 is debited to the Plant and Machinery Account, and the balance £21,575,755 is borne by the State	45
48. The total Interest Charges for 1940-41, including £115,999 exchange on overseas payment on this liability, amounted to £1,224,154	50 & 51
49. Waterworks Trusts and Local Water Authorities paid to the Treasury as interest on loans the sum of £84,879	50
50. In addition, interest amounting to £142,515 in respect of Districts and Divisions under its control was met by the Commission	45
51. In 108 districts, the capital liability of which has been adjusted, the operations for the year resulted in a net surplus of £29,097 after providing for interest, redemption, and depreciation	47
52. A loss of £76,954 was incurred in operating 40 districts to which the supply was continued by direction of the Governor in Council. This amount was debited to the "Revenue Expenditure Chargeable to the State Account"	48
53. The net cost of services of a national character and other miscellaneous charges not debited to districts was £54,278	50
54. 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 £1,079,593. Comment is made and this figure analysed	49 & 50
55. A sum of £22,998 was paid from Consolidated Revenue for Administration and General Expenditure Charges in connexion with Unemployment Relief Loan Works not directly chargeable to water-users	52
56. The total expenditure during the year on water distribution, maintenance of water supply and drainage works, and administration was £491,242, of which £485,815 was provided from Vote Funds, £3,443 from Special Appropriations and £1,984 from Unemployment Relief (Taxation) Funds	50
57. An amount of £1,495 was expended on war precautions under the provisions of the National Security Act 1939, No. 4645	50
58. Further water supply and sewerage works have been constructed for a number of military and internment camps. The expenditure (£172,004) incurred during the year on this work was met from Commonwealth Funds	45
59. The value of stores and equipment held in the Stores Suspense Account as at 30th June, 1941, was £88,108.	46
60. The value of movable Plant and Machinery held in the Plant and Machinery Account as at 30th June, 1941, was £61,147	46
61. A statement is included showing the details of the Water Supply Works Depreciation Account, and the amounts at credit of the Water Supply Works Depreciation Fund, and Water Supply Plant and Machinery Depreciation Fund respectively	67-69
62. A sum of £44,353 was paid into Consolidated Revenue in respect of depreciation payments by Commission's Districts for the year 1940-41	67 & 68
63. The amount at credit of Water Supply Plant and Machinery Depreciation Fund as at 30th June, 1941, was £9,972	69
64. The arrears of water rates and charges outstanding at 30th June, 1941, was £617,059	65
65. The amount included in the Budget Estimate for 1941-42 for Vote Expenditure on works and services under the control of the Commission is £515,000. This amount is less by £36,637 than the Commission's estimated requirements	82
66. A total amount of £3,264,174 has been made available to the Commission from Unemployment Relief Funds since 1st June, 1930. Of this amount £3,196,687 was expended at 30th June, 1941. The total number of men to whom employment has been provided is 47,578	Appendix A

PART II.—GENERAL.

OUTLINE OF REPORT.

This report covers the period 1st July, 1940, to 30th June, 1941, and contains a general outline of the activities of the Commission and its operations throughout the year.

Statements are inserted setting out the names of the districts supplied with water; the annual value of the lands and tenements and the number of persons dwelling in these districts; the water rates, irrigation charges and drainage and flood protection rates levied; the area of lands under irrigated culture within the State; and the capacities of the various water storages. Financial particulars relating to the Commission's Works and Districts and Estimates of Revenue and Expenditure for 1941-42 are also published.

A number of new Acts affecting water supply administration was passed by Parliament during the year.

Notwithstanding the comparatively low condition of the Goulburn storages at the commencement of the irrigation season, the quantity of water delivered for the year 1940-41 created a new record of 698,121 acre feet.

The area irrigated during the year was 596,662 acres, the greatest yet recorded, the previous record being 590,112 acres in 1937-38.

During the year, considerable progress was made with the extension of the channel system of the Murray Valley District, and works were put in hand for the further utilization of the waters of the Glenelg River, which will involve the construction of a reservoir near Balmoral and the necessary outlet channels to connect with the Wimmera-Mallee system.

The Commission has also carried out, on behalf of the Commonwealth Government, further works of water supply, drainage and sewerage for a number of military camps throughout Victoria.

Some additional progress was made with the comprehensive investigation of the water resources of Victoria, although the Commission has been seriously retarded in this important undertaking by activities in connexion with the war, loss of technical staff, and inadequate and unsuitable accommodation.

LEGISLATION.

During the year under review several Acts, which affected the Commission, were passed by Parliament.

The most important new legislation in question comprised the following Acts, viz:—

Water (Rates and Charges) Act 1940, No. 4740.—This Act provided for the remission of all interest in respect of arrears of rates and charges under the Water Acts as at 30th June, 1940, most of which accrued during the depression period, and for an extension of time, free of interest, for the payment of the balance of such arrears. These arrears remain a charge on the respective lands concerned and are payable to the Commission by annual instalments. The minimum annual instalment is £3 and the maximum period over which the payment of arrears can be spread is twenty years. Provision is made in the Act for the recovery of the whole amount of the arrears where default is made in the payment of instalments and for the immediate payment of all outstanding instalments of arrears on the sale or transfer of any land.

This Act applies to lands and tenements in irrigation and water supply districts (excluding urban divisions thereof), waterworks districts (excluding urban districts thereof), flood protection districts and drainage districts.

The amount of interest written off under this Act has been £81,578.

Water Act 1940, No. 4761.—This Act makes a number of amendments affecting legislation pertaining to water supply matters.

Among the amendments provision was made for the abolition of the Carrum Waterworks Trust and for the lands included in the Trust District to be deemed to be a drainage district to be known as the Carrum Drainage District under the jurisdiction and control of the Commission, as on and from 1st July, 1941, the capital liability of the Trust being transferred to the State Account.

Other amendments dealt with—

- (a) the preparation and revision of Registers of lands in irrigation and water supply districts;

- (b) the increase of water rights by District Appeal Boards, inasmuch as an Appeal Board shall not increase the water right apportioned to any land unless the Commission certifies in writing that the quantity of water assigned to the respective irrigation district is sufficient to provide for such increase and that, in its opinion, such increase will not adversely affect any water right apportioned to any other land in the district;
- (c) the conditions of subdivision of land in irrigation and water supply districts and drainage districts, embodying a provision requiring an applicant for approval for a subdivision to pay to the Commission the estimated cost of water supply and/or drainage works necessitated by such subdivision including an amount of capitalized depreciation for the maintenance and renewal of such works in perpetuity;
- (d) the payment by any person or body, contributing to the cost of any water supply works, of such sum as the Commission thinks necessary for the purpose of maintaining and renewing such works in perpetuity;
- (e) the constitution of a flood protection district notwithstanding that any part of such district is already included in an irrigation and water supply district or waterworks district;
- (f) the alterations of boundaries of urban districts and flood protection districts; and
- (g) the purchase of movable plant and machinery from a special Plant and Machinery Suspense Account and the subsequent hire to any work or district.

Soil Conservation Act 1940, No. 4786.—This new legislation, which is administered by the Honorable the Premier, provides for the constitution of the Soil Conservation Board of seven members, including a representative of the Department of Agriculture, the Department of Crown Lands and Survey, the Water Supply Department, the State Forests Department, and the Mines Department respectively, each of whom has a general or special knowledge of soil conservation problems.

The general objects for which the Board is constituted are—

- (a) the prevention and mitigation of soil erosion;
- (b) the promotion of soil conservation; and
- (c) the utilization of lands in such a manner as will tend towards the attainment of the objects aforesaid.

The Board is required to prepare an annual report setting forth its activities and the results thereof during the twelve months under review and to submit, within two years after commencement of operations, a special report containing detailed proposals with respect to any further legislation which it recommends should be enacted in order that the objects for which the Board is constituted may be more fully carried into effect.

Mr. H. G. Strom, B.C.E., A.M.I.E. Aust., Commission's Divisional Engineer, Rivers and Reclamation Division, was appointed full-time Chairman of the Board, and Mr. R. F. McNab, L.S., A.M.I.E. Aust., Wimmera Mallee Divisional Engineer, is the Commission's representative on the Board.

Survey Co-ordination Act 1940, No. 4732.—This Act, which will be administered by the Honorable the Commissioner of Crown Lands and Survey, makes provision with respect to the co-ordination of surveys in Victoria and to facilitate co-operation between various State Departments and the Commonwealth of Australia in relation to a National Mapping Scheme and also to avoid duplication of surveys. In this regard, every Government department or public authority is required to compile and forward to the Surveyor-General a list setting out the prescribed particulars with respect to all survey plans in the possession of each department or authority at the commencement of this Act, which comes into operation on a day to be fixed by proclamation of the Governor in Council. After this date, no survey can be commenced by or on behalf of any department or authority unless a notice of intention to make such survey has been received by the Surveyor-General at least five days before such survey is commenced.

An Advisory Committee has been set up to consider various questions arising out of the Act, the Commission being represented by its Chief Surveyor, Mr. A. J. Robin, M.V.I.S.

The Act provides for the establishment in the Lands Department of a Central Plan Office and for the publication of an index of all plans recorded in the register at such office. This will be of considerable advantage to the Commission as it will facilitate its investigations in all parts of the State.

Local Government (Building Regulations) Act 1940, No. 4796.—This Act provides for the constitution of a Building Regulations Commission which may submit draft regulations for, *inter alia*, the provision in or in connexion with buildings of sanitary fittings for carrying off sewage and for the supply of water in buildings in cities or towns. The Building Regulations Commission in consultation with this Commission is now preparing draft regulations to deal with the connexion of houses to the sewers in sewerage districts in cities or towns.

Other Acts which were passed during the year and affected the administration of the Commission included the **Mildura Irrigation and Water Trusts Act 1940, No. 4728**, and the **Farmers Protection Act 1940, No. 4737**.

COMMISSION.

In March, 1941, Mr. W. A. Robertson, Commissioner and Deputy Chairman, was appointed as the Government nominee representing the engineering profession on the Architects Registration Board of Victoria for the period ending 8th April, 1942.

In response to a request by the Commonwealth Minister for Air, the Victorian Government released Commissioner Robertson to undertake the duties of Director of the Air Training Corps in Australia, with the rank of Group Captain. Mr. Robertson commenced such duties on 11th June, 1941, and arrangements were made with the Air Board for him to attend meetings of the Commission.

On 30th June, 1941, the Chairman of the Commission, Mr. L. R. East, was appointed to be a member of the State Emergency Council for Civil Defence in place of Mr. Robertson, who resigned on account of his new duties with the Air Board.

INQUIRIES AND REPORTS.

PARLIAMENTARY PUBLIC WORKS COMMITTEE'S INQUIRIES.

Little River—Water Supply.

The Governor in Council referred to the Parliamentary Public Works Committee for inquiry and report the question as to "*the desirability of constructing a storage reservoir to conserve the flow of the Little River in the vicinity of the Little River Township to improve water supplies for domestic and stock and irrigation purposes to lands along the stream.*" After hearing evidence of landholders concerned and the State Rivers and Water Supply Commission the Committee submitted a report in which it recommended:—

1. The construction of a storage reservoir on the Little River in the vicinity of the Little River Township, at the estimated cost of £5,971 8s.
2. A grant be made to the State Rivers and Water Supply Commission to carry out the works recommended.
3. Charges to water-users to be such as to repay within a reasonable period the cost of works recommended together with interest, administration, and maintenance costs.
4. The works to be carried out and controlled by the State Rivers and Water Supply Commission.

The Commission considers that this proposal could be included in the State Post-War Reconstruction Works Programme.

Snowy River—Drainage and Flooding Problems.

Another matter referred by the Governor in Council to the Parliamentary Public Works Committee for inquiry and report was the question as to "*the advisability and cost of further works for the alleviation of flooding in the Snowy River area by:*—

- (a) Preventing overflow during moderate floods in the Snowy River by the erection of a low embankment at Lynn's Gulch;
- (b) Increasing the discharging capacity of the Snowy River below Gilbert's Gulch;
- (c) Constructing floodgates on:—
 - (i) the drain known as the "B" drain, and
 - (ii) Major's Creek; and
- (d) Providing an alternative outlet for flood waters from the Brodribb River by a cutting via Cabbage Tree Creek and a swamp east of Marlo to the Backwater."

After inspecting the sites of the proposed works and the areas that would be served by them and hearing evidence from local witnesses and the State Rivers and Water Supply Commission, the Committee made a report in which it:—

- (a) Recommended the carrying out of works of constructing Embankment at Lynn's Gulch, Floodgate Major's Creek, Widening of "B" Drain, small banks across scours or breaks, Floodway from Brodribb Bridge to Marlo, Enlargement of river channel by removal of false banks, enlarging restricted sections and planting protective vegetation; at an estimated total cost of £6,230.

- (b) Pointed out that the maintenance of works previously recommended and carried out under the *Snowy River Works Act* 1938, No. 4548, and others now recommended should be the obligation of local authorities and that it is essential that, until adequate provision has been made for such maintenance, no further Government funds should be allotted for river works at Orbost, and
- (c) Stated that new legislation is required in connexion with the construction and maintenance of works and the contribution of landholders toward the cost of any additional works in the future, to provide for :—
 - (i) The constitution of River Improvement Districts.
 - (ii) The cancellation of a Drainage Area and its incorporation within a River Improvement District.
 - (iii) Control to be vested in a local governing body responsible to the State Rivers and Water Supply Commission.
 - (iv) Such body to be given power to construct works of river improvement, flood control and drainage, and to maintain such works.
 - (v) Such body to be given power to collect revenue by the fixing of a charge on the land benefited in proportion to the benefit received, and to finance necessary works.

The Commission has indicated that an amendment of the *Snowy River Works Act* 1938, No. 4548, would be necessary before it could carry out the additional works recommended, and has suggested that consideration be given to the preparation of legislation to provide for their construction and for the maintenance of these works and those already completed under Act No. 4548.

Bacchus Marsh and Werribee Irrigation Districts—Additional Storages.

The Governor in Council has also referred to the Parliamentary Public Works Committee for inquiry and report the question as to “*the practicability and desirability of providing for the storage of additional quantities of water to safeguard the water-users of the Bacchus Marsh and Werribee Irrigation and Water Supply Districts against serious deficiencies in supply during drought periods.*”

This is a very important question to which the Commission has given much consideration, involving investigations into the water resources of the catchment areas of these districts and the preparation of several reports.

The Committee has heard some evidence on the matter and is proceeding with its inquiry.

SPECIAL INVESTIGATIONS AND REPORTS.

RIVER MURRAY WATERS—DISTRIBUTION.

Following a decision of the River Murray Commission authorizing the regulation of the discharge of water from the Hume Reservoir with a view to providing for an annual discharge at Albury of approximately 2,000,000 acre feet distributed generally throughout the year on the basis of an equal distribution of the available water between the States of New South Wales and Victoria over the whole year, the State Rivers and Water Supply Commission has given consideration to the question of the apportionment of Victoria's total allocation of 1,000,000 acre feet per annum at Albury.

After providing for the requirements of all established districts drawing supplies from the River Murray, the Commission proposes to apportion extra water rights in accordance with the provisions of Section 61, *Water Act* 1928, No. 3801, to irrigated lands within Districts—with exception of Kerang District—already supplied from the Torrumbarry System, such apportionment to be made as from 1st July, 1942.

The balance, which will be in the vicinity of 145,000 acre feet, will be required for the extensive Murray Valley District now being developed with irrigation supplies diverted from the Murray River at Yarrawonga.

WATER RIGHTS.

The most beneficial utilization of water resources, within the State of Victoria, is the responsibility of the State Rivers and Water Supply Commission which, for several years, has made an intensive investigation into this problem and has formulated certain definite policies in regard to the Murray and Goulburn Systems which will safeguard existing irrigation development while permitting of the maximum utilization of the available natural resources in water and land.

“Water Rights” are becoming increasingly important and as, in times of abnormal drought, water deliveries will be based on “Water Rights”, not on quantities of water purchased under normal conditions, individual landowners should plan the permanent development of their holdings on the quantities of water available to them as “Water Rights.” In most years, additional quantities of water can be purchased as “sales,” and

these quantities might, in an average year, increase the total quantity of water available throughout an irrigation district by as much as 30 per cent. Some irrigators have, in the past, developed their holdings far beyond the capacity of their "water rights", and these have suffered acutely during periods of extreme drought even though water right deliveries have been maintained with little restriction.

It is pointed out that the irrigator who overdevelops does so at the expense of other irrigators in that he uses water which would otherwise provide "carry over" for normal requirements.

In a country such as Australia where river flows are subject to phenomenal variations between years of flood and drought, it would be both physically and financially impossible to ensure a uniform regulated flow throughout all seasons, and irrigation development would be very limited indeed if it were to be restricted to the area to which full deliveries could be ensured in the worst drought.

Any such restriction would mean a very substantial loss in potential production over long periods of years in order to avoid a slight restriction of production in an occasional year. Development should, however, be so controlled that losses, even in this occasional year of severe drought, should not be disastrous.

A suitable basis which would permit of reasonable development without occasional disastrous setbacks would appear to be provided by a programme which would provide full water rights during all except very severe droughts, make available an additional quantity of 30 per cent. of water as "sales" in all ordinary years and yet ensure that at least 70 per cent. of water rights will be delivered under the worst conditions of the most severe drought that can be anticipated. This would occur only at long intervals in the second consecutive year of extreme drought such as was experienced in Northern Victoria in 1938-39.

LODDON UNITED WATERWORKS TRUST.

ADMINISTRATION AND CONTROL.

The Loddon United Waterworks Trust—originally constituted in 1886—is now the only remaining rural Trust administered by the Commission which has not been brought into line with Waterworks Districts throughout the State; all other similar Trust districts having been abolished and reconstituted as Waterworks Districts under the Water Acts over the past thirty years.

With a view to the administration of this District on a uniform basis under the Water Acts the Commission, after consideration of a comprehensive report which it had had prepared outlining the history and present position of the Trust, has recommended that legislation be enacted to provide—

- (i) That the Loddon United Waterworks Trust be abolished as a Trust.
- (ii) That the Urban District of Mitiamo (which is within the Loddon United Trust District) be constituted a separate Urban District controlled by the Commission and that the Capital Liability be adjusted in accordance with the reduction of the rate from 4s. to 3s. 6d. in the £ after making due allowance for depreciation and maintenance, involving the transfer to the State of an amount of approximately £4,726.
- (iii) That the lands now constituting the Loddon United Waterworks Trust District be divided into three Districts (a) Loddon Waterworks District, (b) East Loddon Waterworks District, (c) West Loddon Waterworks District; the remaining Capital Liability to be distributed between the three new Waterworks Districts in proportion to the benefits from the works.

The matter is now under consideration.

MALLEE DISTRICTS—MARGINAL AREAS.

In connexion with the recommendations, set out in the last Annual Report, of the Parliamentary Public Works Committee following its inquiry into the "*Position of Settlers on Isolated Holdings in Mallee Districts, with Respect to the Problem of Water Supplies*", further consideration has been given to the question of water supply to settled wheat-growing holdings within the Millewa, Millewa Central, Yelta, Carwarp, Carwarp Central, Coreena, Tyrrell, Tyrrell West, and Tyntynder Districts, which holdings had been cut off by large areas that had reverted to grazing.

A statement setting out the Commission's views on water supply as affecting the general reconstruction of holdings in such areas has been prepared at the request of the Lands Department which is giving consideration to the problem of settlement in Marginal Areas.

SNOWY RIVER—DEVELOPMENT.

The question of the utilization or control of the waters of the Snowy River is one affecting the interests of the Commonwealth and the States of New South Wales and Victoria, and the New South Wales Government has intimated that, in the event of investigations now being carried out by that State indicating the practicability and desirability of certain works, full information will, in the first instance, be supplied to the Victorian Government as a prelude to a conference being arranged at a later date.

POST-WAR DEVELOPMENT.

Towards the close of the financial year the Government appointed the Minister for Labour, the Honorable E. J. Mackrell, M.L.A., to be Minister in Charge of Post-War Reconstruction.

The question of post-war reconstruction is one with which the Commission is closely associated, both in regard to irrigation production and to the development of water resources to the fullest extent, involving the reconditioning of the existing water supply systems.

The Commission is taking steps to prepare information for submission to the departmental Committee which has been appointed to investigate post-war reconstruction generally, and on which it is represented by its Chairman, Mr. L. R. East.

IRRIGATION DEVELOPMENT.

The 1940-41 Season.

Since the establishment of the State Rivers and Water Supply Commission in 1905 there has been a gradual increase in the area irrigated in the State. Thus, although there have been fluctuations in the area in accordance with the season, each drought year has seen a rise to a new record. In this, the year 1940-41 is no exception as, as shown in an appendix to this Report, the area irrigated was 596,662 acres as compared with the previous records of 590,112 acres in 1937-38, and 566,577 acres in 1929-30, 371,248 acres in 1919-20 and 324,345 acres in 1914-15.

Competitions—Field Days.

This season saw the inauguration of the largest competition yet sponsored by the Commission—the Hanslow Cup Competition for the “Best Effort to Control Soil Drift on a Mallee Farm.” The winner of this competition holds for one year a Sterling Silver Cup presented by Mr. H. Hanslow, Commissioner, and in addition will be presented with a replica of the Cup. The report of the Judge, Mr. L. Hore, B.Ag.Sc., of the Department of Agriculture, which has been published in the *Journal of Agriculture*, indicates how soil drift can be controlled and shows that much can be learned from competitions of this type.

In addition, competitions for irrigation farmers on similar lines to those of other years were held in the Boort and Kerang Districts.

Field Days were held in a number of districts in conjunction with the Department of Agriculture, and three demonstrations in methods of grading and preparing land for irrigation were given in the new Murray Valley Irrigation District.

Soil Surveys.

The Soil Survey of the Shepparton District mentioned in the last report has been continued in conjunction with the Department of Agriculture.

In addition, arrangements have been made with the Department of Agriculture and the Commonwealth Council for Scientific and Industrial Research for the extension of the survey of the Murray Valley District by the inclusion of the parish of Baulkamaugh.

District Advisory Boards.

During the year these Boards functioned in all but two irrigation districts. In the early part of the season when a shortage of water was a possibility the Boards were consulted by the Commission and their views obtained regarding the allocation of the available water.

Production.

Full statistics relating to all production are not available, but that of the irrigation districts was at least equal to the average. Although in all dried vine fruit industries there was a decline in the total production due to a seasonal trend combined with poor harvesting conditions for currants, the pack of canned fruits, on the other hand, was well over the average.

Irrigation Handbook.

Mr. H. Hanslow, Commissioner, who has had 30 years' experience as an irrigation farmer, published in *The Leader* a series of articles on various phases of irrigation practice. These were reprinted in book form by the proprietors of *The Leader* under the title "Better Irrigation," and nearly 20,000 copies were distributed throughout the irrigated areas of Victoria, New South Wales and South Australia. The Commission appreciates the co-operation of the proprietors of *The Leader* in making the valuable information contained in the articles available for general distribution.

Weed Control.

Weeds affect the efficiency of water supply from two main aspects:—

- (a) Interference with supply and distribution.
- (b) Reduction of return from irrigated agriculture.

In view of this, the Commission has co-operated with the Commonwealth Council for Scientific and Industrial Research, the Water Conservation and Irrigation Commission, New South Wales, and the Department of Agriculture and the Lands Department of Victoria, in carrying out experiments in weed control in channels and in the dissemination of the results thereof.

Investigations have been made into the control of various species of Typha, commonly called Cumbungi or Bulrush, and Phragmites communis, commonly called Cane Reed, both of which cause losses of water and reduce the efficiency of channels and drains.

In the case of the Cumbungi, efficient methods of control have been determined and details were published in the *Journal of the Council for Scientific and Industrial Research*, Volumes 13 and 14. Copies of these reports have been reprinted and distributed throughout the irrigation and water supply districts.

Further experiments are being carried out with a view to determining a cheap and efficient means of controlling weeds and other growth in irrigators' distribution channels.

PUBLICATIONS.

A number of valuable publications dealing with matters relating to the activities of the Commission has been issued during the year. The more important have been those referred to hereunder.

A handbook entitled "River Control in New Zealand and Victoria," by Mr. H. G. Strom, B.C.E., A.M.I.E. Aust., dealing with river works and their administration, has been published by the Commission for distribution to its own and municipal engineers concerned with river control problems in this State. Many requests have been received for copies of this handbook and an additional supply is being printed for sale to the public.

Officers of the Commission contributed papers to a Symposium entitled "Soil Erosion in Victoria," arranged by the Victorian Institute of Surveyors. The proceedings have since been published by the Lands Department.

The Commission, during the year, published a handbook for the guidance of intending applicants for licences or permits to divert water under the provisions of the Water Acts for various purposes from the rivers, creeks, watercourses, lakes, lagoons, and swamps of the State outside the metropolitan area or metropolis as defined in the *Metropolitan Board of Works Act* 1928, or for authority to purchase water from the Commission's works for use on lands outside Irrigation and Water Supply Districts. The law in Victoria in respect of natural waters, riparian rights, and the issue of licences to divert water was briefly outlined and the procedure to be followed by applicants was set out in detail.

Among other publications compiled during the year was a handbook "Better Irrigation," reference to which is made in the Irrigation Development section of this Report.

ADMINISTRATION.

STAFF.

The Commission wishes to draw attention to the extent to which its operations are being retarded and restricted by staff difficulties. The Commission has found it increasingly difficult to obtain and retain on its staff officers with the qualifications necessary to carry out the specialized functions of the Commission. Many officers have resigned to accept more lucrative positions elsewhere.

In this regard, it may be pointed out that owing to the inability to retain the services of sufficient numbers of qualified and experienced engineers, surveyors and draughtsmen, it has not been possible for the Commission to proceed, at anything like a reasonable rate, with the very important national work of the investigation of the water resources of Victoria for post-war development and it is evident that it will not be possible to do so until steps are taken to overcome the staff difficulties apparently inseparable from the present control of the Commission's staff by the Public Service Board.

The Commission is of the opinion that these difficulties could be overcome if the Public Service Acts were amended to provide either—

- (1) That in respect of the officers of the Water Supply Department, the State Rivers and Water Supply Commission should act as the Board ;
- or (2) That the Board *shall* appoint such officers as the Minister of Water Supply may from time to time certify to be necessary for the carrying out of the duties imposed by Parliament on the State Rivers and Water Supply Commission.

In connexion with the investigation of the State's water resources, the Commission proposes during the coming year to establish a Hydrographic Branch within its Rivers and Reclamation Division, with a view to expanding very greatly the work of the Engineer for River Gaugings to embrace hydrographic work on all streams where it is considered water conservation and development might be practicable in the future. A request has accordingly been forwarded to the Public Service Board for the making of the necessary appointments from time to time as suitable men become available.

On the revenue side, the Commission has asked for the establishment of a Rating and Rate Recovery Branch, the necessity for which was stressed in the recommendations by the Royal Commission on Water Supply in 1937. The duties of this Branch would be to follow up the arrears of water rates and charges at present amounting to £617,059 and to control all matters affecting rating throughout the Commission's districts. Although application was made by the Commission some months ago for the appointment of officers required to constitute the Branch no steps have yet been taken to make such appointments. Unless adequate staff is provided to permit the placing of this Branch on a proper footing, it is felt that the beneficial effect of the adjustments in water-users' accounts resulting from various legislative enactments will be much reduced, and that many ratepayers will again fall seriously into arrears.

Mr. H. G. Strom, B.C.E., A.M.I.E. Aust., Divisional Engineer, Rivers and Reclamation Branch, left the Commission's staff to accept appointment as Chairman of the recently constituted Soil Conservation Board. He took over his new duties on 24th December, 1940. To fill the vacancy so caused Mr. E. J. Lupson, L.S., M.S.E., A.M.I.E. Aust., was appointed to the position of Divisional Engineer, Rivers and Reclamation Branch.

Mr. H. H. C. Williams, B.M.E., A.M.Inst.C.E., A.M.I.E. Aust., has been appointed Executive Engineer at Rocklands Reservoir.

Mr. G. V. Adams was appointed to act as District Officer, Secretary and Collector, Otway Waterworks District.

Mr. H. L. Credlin, C.E., A.M.I.E. Aust., Assistant Engineer, has been appointed District Officer at Ouyen Centre.

During the absence of Mr. F. W. R. Barker on loan to the Munitions Department, Mr. A. E. Smyth has been appointed Electrical Engineer, Red Cliffs and Merbein Pumping Stations.

Mr. H. C. Kermode, M.C.E., A.M.I.E. Aust., has been appointed District Engineer to the Murray Valley Irrigation and Water Supply District in place of Mr. H. E. Harding, transferred to the Gippsland and Goulburn Division, Head Office.

Mr. J. J. Cummins, B.C.E., has been appointed Acting District Engineer at Cohuna to replace Mr. H. C. Kermode.

Mr. B. W. Scharp, B.C.E., A.M.I.E. Aust., has been promoted to the position of Executive Engineer, Mornington Peninsula Extension.

During the year, additional appointments of water bailiffs have been made to the permanent staff. The undermentioned comparison sets out the position of water bailiffs on

the Permanent and Temporary Staffs as at 1926, 1939, 1941, the increase in the total number of bailiffs being due to the irrigation of the new Murray Valley District and to additional appointments necessary on account of the absence of bailiffs with the military forces.

	Year 1926.	Year 1939.	Year 1941.
Permanent Water Bailiffs	150	74	121
Temporary Water Bailiffs	32	113	80
Totals	182	187	201
Percentage of Permanent Bailiffs	82%	40%	60%

The Commission records with deep regret the deaths during the year of Mr. K. F. Turner (Draughtsman, Head Office), Mr. D. R. Arnold (Reservoir Keeper, Waranga Reservoir), Mr. L. C. Brydon (Reservoir Keeper, Mildura Lock and Weir).

The following officers have retired from the Commission's service during the year :—Mr. J. Blackburn (District Officer, Ouyen), Mr. G. J. Barker (Survey Assistant, Murtoa), Mr. J. Gallagher (Inspector, Cohuna), Mr. A. S. Hjorth (Inspector, Bacchus Marsh), Mr. G. Shine (Inspector, Bacchus Marsh), Mr. J. Bignell (Overseer, Murtoa), Mr. W. G. Cooper, Mr. M. O. G. Stafford and Mr. A. H. Barry (Water Bailiffs), Mr. W. Prendergast (Motor Driver, Rochester).

The undermentioned permanent officers have resigned from the Commission's service during the year :—Mr. L. D. Monsborough (Assistant Engineer), Mr. E. C. McEwen (Licensed Surveyor), Mr. D. D. Harvie (Draughtsman), Mr. J. T. E. Capeness, Mr. N. W. T. Killen, Mr. J. P. Shanahan (Clerks), and Mr. J. B. Read (Water Bailiff).

In addition, seven professional officers, nine clerks, four typistes, and five water bailiffs, have resigned from the Temporary Staff.

The following lists set out the names of the Commission's officers who have enlisted for Active Service Abroad with the Navy, Army, or Air Force :—

Permanent Staff.

*Hodgson, Frederick Charles
Drummond, Richard
Sundercombe, John Charles Robert
Crow, Alan Edward
Dickinson, Keith Johnson
McCallum, Alan Ryrie
Curnick, Harold Edward
Golding, Reginald Uriah
Hawkins, George Alfred
Marr, Colin David
Graham, Sydney George Elliott

Horridge, William John
Kefford, Roderic Owen
Lewis, Geoffrey Wilfred Valentine
McPherson, Cyril John Bennett
Rayner, Leo Joseph
Ritchie, George
Wood, Edwin Richard
*Clarke, John
*Phillips, William
Watson, James
White, Robert Clarence

Temporary Staff.

*Abbott, Percival Harvey
Barlow, Archibald William
Chirgwin, William Sydney
Corlett, Harrie Miller
Duff-Gordon, Alexander Neville
Lawrence, Birrell Frederick
Nolan, Michael Mullins

Scealy, George James
Shaw, Stuart Graham
Sherriff, Roy Arthur
Sims, Allan Morris
Tancoe, James Whitburn
Williamson, Arthur Bennett
Wyndham, David Norman

* These officers served in the 1914-18 war.

STAFF TRAINING.

To increase the efficiency of its staff, particularly junior officers who, owing to absence of senior officers on war duties, are carrying out very responsible work, the Commission commenced during the year a series of instructional addresses on matters appertaining to the work of the Commission. These addresses are given weekly by the Chairman, Commissioners, Divisional Engineers, Heads of Branches, and other Senior Officers, and by this means young officers are acquiring a comprehensive knowledge of the Commission's operations and of the action necessary to carry out specialized work and to give effect to the provisions of the Water Acts.

In accordance with its policy of making its officers fully conversant with advances in irrigation methods, the Commission made arrangements for four of its engineers from country districts to attend a series of lectures and demonstrations at a School conducted by the Murrumbidgee Irrigation Area Research Committee at Griffith, New South Wales, in November,

1940. At this School, the principles and practices of irrigation and drainage and other relevant matters were discussed. Mr. H. F. Byham, District Engineer at Shepparton, one of the Commission's representatives, compiled comprehensive notes of the proceedings of the School and these were printed by the Commission and distributed amongst officers unable to attend the School.

ACCOMMODATION.

The Commission's Engineering Research work is being extended, as far as circumstances permit, to meet the varied requirements of engineering research, including the testing of materials required in connexion with the construction of water supply works. The laboratory is now housed in new accommodation at 420 William-street, West Melbourne, and includes the main Soil Mechanics Laboratory which was set up originally at Hume Reservoir.

The fact that it was necessary to establish the Research Laboratory so far from the Commission's Head Office in the Treasury Gardens again shows the need for centralized accommodation for the Commission's staff. The present arrangement under which the Commission's Head Office staff is housed in four widely-separated buildings in Melbourne is very unsatisfactory, the accommodation being both inadequate and unsuitable for the efficient administration of water supply activities, which are of so much importance to the State.

The Commission again desires to draw attention to the loss of efficiency owing to the non-installation of a comprehensive mechanized accounting system on the revenue side. In the annual report of the Auditor-General for 1939-40 reference was made to the need for such a system in the interests of increased efficiency. Owing to the lack of adequate accommodation and the fact that it is impossible to obtain the necessary machines during war-time the Commission has been unable to inaugurate such a system.

DISTRICT EXTENSIONS AND EXCISIONS.

An area of 65 acres was excised from the Boort Irrigation District and added to the Kerang Irrigation District from which it is supplied.

The Koondrook and Maffra-Sale Irrigation Districts were extended to include areas of 640 acres and 210 acres respectively of lands now commanded from the Commission's works.

The Murray Valley Irrigation District was extended to include an area of 38,400 acres commanded by irrigation channels recently constructed. Of this area 22,820 acres were formerly within the District of the Shire of Tungamah Waterworks Trust.

An adjustment was made to the boundaries of the North Shepparton and the Katandra Irrigation Districts, involving transfers of 110 acres from North Shepparton District to Katandra District and 322 acres from Katandra District to North Shepparton District.

An area of 560 acres, comprising the Township of Underbool, was excised from the Tyrrell West Waterworks District to form the District of the recently constituted Underbool Waterworks Trust.

The Long Lake and Tyntynder Waterworks Districts were extended to include areas of 1,430 and 2,140 acres respectively served by the Commission's channels. Included in the area added to Tyntynder District were 1,270 acres excised from Coreena Waterworks District.

The Tongala-Stanhope, Rochester, Rodney, and Woorinen Drainage Districts were extended to include areas of 4,350, 2,120, 2,100, and 570 acres respectively benefited by the Commission's drainage works.

Areas of 55, 90, 880, 330, and 8,350 acres not benefited by the Commission's works were excised from the Red Cliffs, Shepparton, and Maffra-Sale Drainage Districts and the Lower Kooweerup and Cardinia Flood Protection Districts respectively.

The Spring Vale, Cobden, Nyah and Ouyen Urban Districts were extended to include lands served by extensions of the respective reticulation systems.

An area of 60 acres not served by the reticulation works of the Ouyen Urban District was excised from that District.

An area of 1,350 acres was transferred from the Spring Vale Urban District to the Dandenong Urban District from which district it is supplied.

NEW DISTRICTS.

The Townships of Dromana, Rosebud, Rye, Sorrento, and Portsea, which now receive supplies from the recently completed extension of the Mornington Peninsula reticulation system, were proclaimed an Urban District known as Dromana-Portsea Urban District.

The works to provide a domestic and stock supply to the Allansford Township have been completed, and the township has been proclaimed the Allansford Urban District.

PART III.

WORKS CARRIED ON OR COMPLETED DURING THE YEAR.

A description of the various water supply systems and works controlled by the State Rivers and Water Supply Commission throughout the State of Victoria was published in the Thirty-Fourth Annual Report, Year 1938-39.

The major items of importance regarding the Commission's operations, during the year 1940-41, are shown in the following pages:—

WATER SUPPLY.

In Victoria, the total area of lands supplied with water for domestic and stock purposes or for irrigation, excluding the metropolitan areas, amounted to 15,142,000 acres.

Owing to very dry conditions during the winter of 1940, the supply of gravitation water for irrigation purposes was commenced in August of that year, at which time the storages, including Victoria's half share of Hume Reservoir, contained only 1,200,690 acre feet of water against the total capacity of 1,822,360 acre feet.

In the districts supplied from the Goulburn System, the early heavy demand for water and the low condition of the storages made it necessary, at the commencement of the irrigation season, to institute some restriction of supply based on previous delivery or proportion of water rights, in accordance with the available volume in the storages.

Following intermittent rainfall in September and October, 1940, the storage position improved sufficiently to safeguard domestic and stock supplies and also all water right commitments. In addition, the Commission was enabled to make available a volume of water under revised sales conditions to water right users, for the irrigation of graded lands only, on a basis of the average quantity of water used under sales conditions over the previous five years, excluding the drought season of 1938-39.

General rainfall over the State early in January, 1941, eased the drought conditions and from then on full supplies of water were available. The total quantity of water delivered for the 1940-41 season then actually created a new record of 698,121 acre feet. When the season terminated on 15th May, 1941, the volume remaining in the storages amounted to 780,115 acre feet.

During the year, 654,851 acre feet of water, including 70,217 acre feet by pumping, was delivered from the Commission's channels to landholders in irrigation districts and 43,270 acre feet were supplied to lands outside the boundaries of the Commission's districts. The delivery throughout the gravitation system, including sales of water, was 41 per cent. in excess of the allotted water rights, and in the three districts dependent upon pumped supplies, the quantity delivered was 97 per cent. of the water rights.

The total delivery of 698,121 acre feet for the year under review exceeded that of the preceding year (1939-40) by 152,781 acre feet, and surpassed the previous record established in 1937-38, when irrigation deliveries totalled 693,699 acre feet, inclusive of 55,944 acre feet by pumping.

The irrigation districts of Nyah, Red Cliffs, and Merbein received 53,582 acre feet of water pumped direct from the River Murray, while the high level Waterworks District of Millewa, Coreena, Carwarp and Yelta, also involving pumping from the River Murray, received 16,635 acre feet for domestic and stock supplies. In addition, 449 acre feet of water was delivered to lands outside these districts.

The Wimmera-Mallee Waterworks District received 28,576 acre feet from the Loddon and Goulburn Systems, in addition to their usual supplies from the Wimmera-Mallee storages in the vicinity of the Grampians. The volume of water discharged from the Waranga Reservoir amounted to 648,970 acre feet. Of this quantity, 292,254 acre feet were delivered to irrigators, which quantity together with 28,468 acre feet passed on to the Wimmera-Mallee Waterworks Districts at the Loddon Weir, represented delivery of about 49 per cent. of the total volume released from the storage.

A Return of Water Delivered by the Commission for the year 1940-41, and a Statement showing such deliveries for twenty years from 1921-22 to 1940-41 inclusive are included as Appendices to this Report.

IRRIGATION SUPPLIES.

GOULBURN DISTRICTS.

Generally throughout all districts supplied from the Goulburn System the continued decrease in the area under lucerne and the increase of that under pastures is noticeable. While it is recognized that excellent results are being obtained from pastures, it should be borne in mind that, with the general increase in the development of irrigated farms, the maintenance of water supply requirements for pastures is becoming more difficult, and, should restrictions become necessary, the area under pastures is likely to suffer to a greater extent than that under lucerne.

Cheese from a factory in the Stanhope District won the Australian Cheese Championship while the dairy herd of an irrigator in the Rochester District gained second place in the State Herd Test.

In all districts special attention has been given to the control of cumbungi growth in irrigation channels and the method adopted of cutting under water several times during the summer months is proving satisfactory, little or no cumbungi being now found in these channels.

Nut grass is becoming very prevalent in pastures, and irrigators will require to give special attention to the eradication of this weed, otherwise the value of the pastures for grazing will be seriously diminished.

In the South Shepparton District the siphon on the No. 8 Channel under Seven Creeks has been replaced with 3 feet diameter pre-cast concrete pipes.

In the Rodney District the work of replacing old timber bridges and regulators with concrete structures was continued. In conjunction with municipal councils and the Country Roads Board a programme of lowering and widening road crossings to meet present-day traffic requirements is being carried out.

During the year the Commission prepared a Register of Lands classifying the areas suitable and commanded for irrigation within the Deakin District, and water rights on the basis of one acre foot of water to each four acres suitable and commanded will be apportioned for the 1941-42 irrigation season.

LODDON AND TORRUMBARRY (MURRAY) DISTRICTS.

Remodelling of the worst sections of old channel systems was continued, chiefly by means of dragline excavators, a total length of 38 miles being so treated during the year.

The work of replacing old timber bridges, regulators and outlets with new structures was also continued, the total for the year being 15 bridges, 10 regulators, and 30 meter outlets. In addition several subways were installed.

Repairs were effected to a number of channel structures, and weeds were cut in several miles of channels, the latter work being carried out by means of a narrow steel saw.

The work of providing a direct supply channel from the Gunbower Creek to the Southern Main Channel in the Koondrook District has been completed and was brought into operation during the early part of the irrigation season, and it has completely justified its construction in facilitating the delivery of water to this District.

In order to divert flood waters from the Cohuna District an earthen embankment with concrete core wall, of a height of more than 20 feet, was constructed across Deep Creek on Gunbower Island.

To provide for additional width of bridges on main highways, three timber bridges were replaced by wider concrete structures, portion of the cost being met by the Country Roads Board. In addition, concrete inlets from roads to drainage channels in seven cases were installed, the full cost of which was met by the Board.

Channels and structures rendered necessary by private subdivisions have been constructed in the Swan Hill District at the cost of the subdividers.

Extensive use has been made by irrigators of the dragline excavators which the Commission have made available on hire in the various districts, many miles of private channels having been improved by this means, with a consequent improvement in irrigation practice.

RED CLIFFS AND MERBEIN DISTRICTS.

The season under review was extremely dry during the winter, spring, and early summer, and this appreciably affected the crop of dried fruits. Frost in October, 1940, and heavy rains in January, 1941, were experienced. A crop of 29,060 tons of dried fruit was harvested compared with the record crop of 34,000 tons in 1939-40, and 26,700 tons in the drought year preceding.

Six general irrigations were given to the whole area, involving the pumping of 77,700 acre feet of water. This figure is the highest yet recorded and is some 9,000 acre feet more than the quantity pumped in the previous season.

The distributary channel system was maintained in reasonable condition and the many sub-surface drainage systems continued to operate efficiently.

For the third season, some 1,750 acre feet of water was delivered to approximately 70 acres for the irrigation of pastures and fodder in the Carwarp District adjacent to the boundary of Red Cliffs. The irrigation of this area which is, to some extent, experimental and necessarily limited, has so far proved successful.

NYAH DISTRICT.

In this district the effects of unfavourable seasonal conditions were felt severely, the production of dried fruits amounting to only 2,670 tons compared with 3,304, 3,575, and 4,134 tons respectively in previous years. The need for an efficient sub-surface drainage system is a contributory factor in the comparatively low production of dried fruits in this district. To remedy this, the installation of a number of separate systems has been approved, and these will be constructed as funds are made available. During the year the main sub-surface drainage system of the district has been extended into the irrigated area, and facilities for proper drainage are now available to a considerable number of holdings.

Six irrigations were given to the whole area during the season, necessitating the pumping of 11,498 acre feet of water compared with 9,810 acre feet in 1939-40.

Owing to the unusually dry conditions, a special watering for citrus was provided towards the end of May, 1941, on a sales basis, 440 acres being irrigated.

MURRAY VALLEY DISTRICT.

During the year 1940-41 the area of this district was increased from 25,559 acres to 62,986 acres, with a total water right commitment of 13,986 acre feet. This extension of the district was brought about as a result of the extension of the channel system by the construction of 26 miles of main channels and 16 miles of distributary channels.

Channel construction works have been continued throughout the year and works have been advanced sufficiently to permit of a further area of approximately 27,000 acres being included in the district for the year 1941-42.

The soil survey being made through the co-operation of the Commonwealth Council for Scientific and Industrial Research, the Department of Agriculture, and the Commission, has been continued throughout the year and soil maps are now available for a number of the parishes within the district.

Facilities provided by the Commission for the guidance of landholders in the layout and proper preparation of land for irrigation are being freely availed of and, during the year, two field days were held and were very well attended by the landholders throughout the district.

The progress of development under irrigation is very satisfactory, and during the year 290 acres were planted out to orchards and 300 acres seeded to lucerne and pastures, the total area irrigated being 7,115 acres. The areas planted out to summer fodder crops proved of great value to the district during the dry Autumn.

To assist irrigators during the period of development of their holdings, the Commission has continued its policy of graduating the incidence of compulsory water rights over three years, the charge being for one-third of the ultimate water rights during the first season after supply of water, for two-thirds in the second season and for full water rights thereafter.

A commencement was made with the channel works for the supply of water to the Naringaningalook area, consisting of about 16,000 acres, and channel earthworks have been nearly completed. It is expected that the structures will be sufficiently far advanced to permit of water being made available to practically the whole of this area at the start of the 1941-42 irrigation season.

Work has proceeded rapidly on the construction of the large Strathmerton Main Channel, and earthworks have been almost completed to the point of offtake of No. 5 Main Channel, a length of about 16 miles. The installation of structures on this channel is in progress and every effort is being made to complete the work to a point beyond the offtake of No. 4 Main Channel so as to enable water to be supplied to additional lands in the parishes of Boosey, Cobram, and Katamatite.

Earthworks have been commenced on Katunga System Main Channel, and it is proposed to continue work on this system, together with the Strathmerton system, during next year.

In the whole Murray Valley Channel system the construction has been completed to date of 166 miles of main and spur channels, involving the excavation of 3,500,000 cubic yards of earth, and the erection of bridges, regulators, culverts, checks, siphons and numerous other structures all of steel and reinforced concrete design, in which 4,700 tons of cement has been used.

The estimated total cost of the whole system is £900,000, and the expenditure to date has been approximately £484,000, including £35,000 from Unemployment Relief Funds. The average numbers of men and horses employed during the year has been 217 and 252 respectively.

BACCHUS MARSH AND WERRIBEE DISTRICTS.

Landholders of both these districts have continued to press for further storage provision to meet the water requirements of the irrigable areas and the matter is now under investigation by the Parliamentary Public Works Committee.

The total deliveries of water on to the land in the respective districts for the year were—Werribee, 9,751 acre feet; Bacchus Marsh, 4,025 acre feet.

Concrete lining of channels has been continued and there are now only $3\frac{1}{2}$ miles of unlined channels in these districts.

MAFFRA-SALE DISTRICT.

The Riverslea area of 7,850 acres, which was added to this district last year, is rapidly developing under irrigation, and drainage channels have been completed for the whole of this new area.

The re-opening of Nestles Anglo-Swiss Milk Products Factory at Maffra has been of great assistance to the dairying industry in this centre.

Investigations are being carried out, in conjunction with the Department of Agriculture and the Mines Department, to ascertain the best means of dealing with the escarpment seepage at Bundalaguah. This seepage is becoming a serious problem and is making appearances in other parts of the district where similar conditions exist.

GENERAL.

In addition to the Main Systems and Districts beforementioned, supplies of water were made available for the irrigation of limited areas in the Coliban District (5,391 acres), and the Western Wimmera and Wimmera United Districts (2,697 acres).

TOWN SUPPLIES.

COLIBAN SYSTEM.

With a rainfall on the catchment for the year amounting to only about 60 per cent. of the average, and a run-off of approximately 17 per cent. of the average, the main storages on the Coliban River had stored in them at the beginning of the 1940-41 irrigation season only 17,700 acre feet of water, or 44 per cent. of the total full capacity of approximately 40,000 acre feet.

As a result, it became necessary to impose restrictions on the use of available water, in order to maintain supplies for domestic, manufacturing, and mining purposes throughout the towns and areas served by the system. Rationed supplies, however, were made available for orchards, market gardens, and for domestic and stock purposes from the channels.

From Spring Gully Reservoir, which, at the beginning of the season had stored in it 1,500 acre feet, and which supplies water to the White Hills, Epsom and Huntly districts, rationed supplies for all purposes, with the exception of native grasses, were made available up to the end of January, 1941.

With the new basins at Lockwood-Marong and Cockatoo Hill in operation, full domestic supplies for the townships of Raywood, Sebastian, and Marong were maintained throughout the year.

No restrictions on the use of water for the towns served by the Coliban System were imposed until March, 1941, when the use of water for gardens was limited to watering by hoses held in the hand.

During the year progress has been made with new works in course of construction including the improvement of old reticulation systems throughout the district and the cement lining of channels.

Works carried out during the year included—

- (a) The completion of the laying of a new 27-inch diameter concrete-lined steel welded main from No. 7 Reservoir to Bendigo, a distance of approximately $5\frac{1}{4}$ miles, at a cost of £42,000.
- (b) The completion of the duplication of the 18-inch diameter cast-iron main from Crusoe Reservoir to Specimen Hill Reservoir, a distance of approximately $2\frac{3}{4}$ miles, at a cost of £5,000.
- (c) The effecting of improvements to the old reticulations of Raywood, Sebastian, Taradale, Campbell's Creek, Chewton, and Eaglehawk, involving the laying of $7\frac{1}{2}$ miles of 3-inch, 4-inch, and 6-inch diameter asbestos-cement mains to replace old iron mains.
- (d) The cleaning and cement lining of the deep cutting on the Castlemaine section of the main channel between $17\frac{1}{2}$ miles and Porter's Tunnel, a distance of 44 chains, and the cleaning out of Porter's Tunnel, a distance of 44 chains. In addition, a total length of 128 chains of branch channels in the Harcourt and Coliban Districts was re-conditioned by lining with cement concrete.
- (e) The commencement with the construction of a concrete-lined storage basin at Kalimna Point, Castlemaine, of a capacity of 1,000,000 gallons and of a 12-inch supply main of 30 chains, to improve the supply to the town of Castlemaine.
- (f) The construction of an additional service basin, of approximately 1,000,000 gallons capacity, at Marong for the improvement of the supply to the township.

To meet the development in the towns supplied from the Coliban System, extensions amounting to 56 chains of 3-inch and 10 chains of 4-inch asbestos-cement mains were carried out.

MORNINGTON PENINSULA DISTRICT.

The duplication of the headworks of the Mornington Peninsula Waterworks District, which was commenced last year, has been practically completed and an ample supply of water is now available to meet the increased demands due to the rapid development in the towns supplied and the extension of the system to the Dromana-Portsea Urban District.

The main pipe line from Dromana to Portsea has been completed and the towns of Dromana, Rosebud, Rye, Sorrento, and Portsea have now an excellent reticulation water supply. Service basins at Sorrento and Portsea are in course of construction. The main pipe line which is being extended to Point Nepean is nearing completion.

To provide a more direct supply to the Dandenong and Spring Vale districts from the Beaconsfield Reservoir, an 18-inch diameter pipe line is being constructed from the Beaconsfield Reservoir to the Dandenong channel at Berwick. This main will reduce the demand on the Berwick-Cranbourne line and so make available additional supplies for the bayside towns from Frankston to Portsea.

OTWAY DISTRICT.

The water supply system in this district operated satisfactorily throughout the year and ample supplies of water were available for all purposes. The City of Warrnambool was supplied with 214,715,000 gallons.

A scheme of water supply for the township of Allansford was prepared and portion of the township was constituted an Urban District. Arrangements are in hand for the reticulation of this area.

Reticulation extensions were carried out at Camperdown and Cobden and portion of the township of Garvoc was supplied with water.

Tree planting was continued in the catchment area at Wyelangta and in the reservoir reserve at Tank Hill.

BELLARINE PENINSULA DISTRICT.

The tunnel connecting the east and west branches of the Barwon River was satisfactorily completed and is available for use when the winter flows commence. The total length between the portals is 2,126 feet. The tunnel has been lined with 6 inches of concrete to an internal diameter of 5 feet throughout. The total cost of the work including the diversion weir and regulator pit was £18,420.

The completion of this work, in addition to trebling the supply to the Bellarine Peninsula District, will open up the possibility of providing a suitable storage basin on the East Barwon River to conserve surplus waters of the Barwon River as part of a long range plan to meet any very great expansion of demand for water from the Geelong Centre. An investigation of this storage site will be made at an early date.

Steady progress was made with the reconditioning of the 54-inch diameter steel siphons on the main inlet channel and placing these pipes on concrete piers. This work is proving to be very satisfactory and will add considerably to the life of the pipe.

The beaching of the banks of the Wauru Ponds auxiliary basin was completed during the year.

Some minor extensions were made to reticulation systems of Urban Districts.

WONTHAGGI DISTRICT.

Satisfactory water supplies to the State Coal Mine and the towns of Wonthaggi, North Wonthaggi, and Hicksborough were maintained throughout the year.

Tree planting in the Reservoir Reserve at Lance Creek was continued and various improvements to the township reticulations were carried out.

WIMMERA-MALLEE AND OTHER TOWNS.

The pipe reticulated water supplies to 37 towns connected to the Wimmera-Mallee System and controlled by the Commission were operated during the year and, although a severe drought was encountered, full supplies were maintained. At Hopetoun the storage capacity of Lake Lascelles was increased and an additional storage was constructed at Rupanyup. A number of minor extensions of mains were laid. In Red Cliffs and Merbein urban areas, which receive supplies from the River Murray, extensions of mains were put in hand to supply 30 houses under erection by the Housing Commission.

Nyah, Nyah West, and Piangil, which are also supplied by pumping from the River Murray as well as Werrimull and Meringur in Millewa District and Carwarp in Carwarp District, all received continuous supplies.

In order properly to control the issue, repair, maintenance and testing of all meters used in the Wimmera-Mallee Urban reticulation systems, a meter depot was established, at a cost of £200, at Murtoa centre during the year. This depot has made possible the metering of 201 additional services in various towns and has enabled 530 meters to be repaired at a cost less than the average amount previously expended on work of this nature. Meters as necessary are converted from an inferential to a positive type at a cost less than would otherwise be possible.

At the towns supplied by the Commission from the Goulburn, Loddon, and Torrumbarry (Murray) Systems, minor water supply improvements were made. Four new 5,000 gallons storage tanks have been provided at Lockington, in addition to the replacement of the engine and pump. These replacements have greatly improved the supply to the town. A minor extension of the reticulation system of the Pyramid Urban District has been effected.

DOMESTIC AND STOCK SUPPLIES.

The season experienced was one of the driest on record, causing wheat crops to fail over the greater part of the north-west of the State.

Full supplies of water for domestic and stock purposes were, however, given in all districts and this, to a great extent, alleviated the severity of the drought.

WIMMERA-MALLEE SYSTEM.

This system comprises the Western Wimmera, Upper Western Wimmera, Wimmera United, Upper Wimmera United, Karkarooc, Hindmarsh, Birchip, Wycheproof, Long Lake, Sea Lake, Tyrrell, Tyrrell West, and Tyntynder Districts, the various centres for administration being Horsham, Murtoa, Hopetoun, Birchip, Nyah West, and Ouyen.

Although no appreciable run-off occurred in the catchments of the headworks reservoirs, sufficient water was available in the storages to run all channels, but was not of such a volume that would warrant a commencement with the season's watering at the usual time. In order to do this, it was necessary to provide supplementary supplies from the Loddon and Goulburn Systems along the Waranga-Mallee Channel and to pump water from the River Murray at Nyah and also from Pine Lake Reservoir, which had fallen below gravitation level. The position was made secure for the current watering by winter rains and the volumes stored in headworks are now greater than at the same time last year.

On account of the relatively small volume in storage, however, water for the irrigation areas adjacent to Horsham and Murtoa was limited to 75 per cent. of the previous year's supplies. The area watered comprised some 1,300 acres of orchards, vineyards, and intense culture, and 1,200 acres of well-graded lucerne and sown pasture.

The construction of Rocklands Reservoir on the Glenelg River to supplement the Wimmera storages has been approved and the work commenced. Work has been put in hand on the outlet channel from the reservoir which will be 26 miles in length from the Rocklands Dam to the Toolondo Reservoir (Barton's Swamp) and to date some 13½ miles have been completed. The Rocklands Reservoir, when in operation, will overcome, for many years, the shortages which have been increasingly evident during the past fifteen years and will avoid, to a great extent, the necessity for constant supplementary supplies from other sources.

Work in the various districts has been confined chiefly to maintenance.

The Wimmera United District was extended to include an area of high land at Gooroc hitherto without a reliable water supply. The pump, rising main, and structures of this scheme are being installed by the Commission, but the channels are being constructed by the landholders who will also provide and operate an engine for working the pump. This area will be watered during the present season, and, in view of the pumping and other work being carried out by the landholders, their lands will be rated in the second division.

The construction of a branch channel, about 6 miles in length, to serve additional lands from the Dooboobetic Channel in the Wimmera United District was put in hand.

In the Mallee, the problem of sand drift is still serious and is more evident on account of the series of dry seasons. Protective works, mainly in the nature of fenced plots, have been undertaken to minimise drift and are proving very satisfactory.

During the year 1940-41 the cost to the Commission for cleaning sand drift from channels was £77,168. The schedule which follows sets forth the amounts expended on such cleaning during the past thirteen financial years and the cost for each of the twelve annual waterings since 1928.

Financial Year.	Amount.	Calendar Year. Watering Year.	Amount.
	£		£
1928-29	119,920	1929	133,137
1929-30	98,961	1930	110,997
1930-31	83,610	1931	51,927
1931-32	48,504	1932	33,716
1932-33	41,410	1933	44,153
1933-34	40,270	1934	50,200
1934-35	66,085	1935	75,133
1935-36	66,519	1936	64,991
1936-37	56,892	1937	52,523
1937-38	69,597	1938	71,925
1938-39	77,886	1939	104,561
1939-40	91,305	1940	63,477
1940-41	77,168		
Average	72,164	Average	71,395

SYSTEMS SUPPLIED FROM RIVER MURRAY.

Usual supplies of water were provided for the Carwarp and Carwarp Central Districts through channels extending from the Red Cliffs irrigation system, and to the Yelta District from the Merbein irrigation system.

Owing to the low state of the River Murray, it was necessary to operate a temporary pump, in addition to the main plant downstream from Robinvale, to provide the water requirements of the Coreena District.

In the Millewa and Millewa Central Districts, which are watered direct by pumping from the River Murray near No. 9 Lock at Kulnine, full water supplies to the rural areas and the urban districts of Werrimull and Meringur were furnished.

OTHER DOMESTIC AND STOCK SYSTEMS.

Water was available as usual to lands in the Walpeup West District from public bores. Many landholders have their own private bores sunk on their holdings.

In the Werribee Waterworks District, the usual supplies of water for domestic and stock requirements were provided.

PUMPING.

The main pumping stations operated by the Commission are situated on the River Murray to provide water supplies to the important irrigation districts at Red Cliffs, Merbein, and Nyah, and to the Millewa, Carwarp, and Coreena Waterworks Districts. There are, in addition, numerous plants used for pumping supplies for other Waterworks Districts and for a large number of township water supplies.

The main construction work undertaken during the year was on the continuance of operations for the electrification of the old steam-operated pumping plant for the Merbein Irrigation District near Mildura, along with additions to the main power and generating centre at Red Cliffs Pumping Station. The Merbein section of the work was completed early in the year and all three pumping units, each of 600-h.p. motor and 36-inch pump, were available and on load for the first irrigation in August, 1940. As a reserve plant, one steam unit with its boiler plant has been retained. This unit represents one-third of the station capacity. At the Red Cliffs generating end, the new boiler was completed and on load throughout the year. The foundations and housing extension for the final stage Turbo-Alternator of 1,100 kilo-watts are complete but, because of war conditions overseas, advice has been received that delivery cannot be given until 1942.

The new plant for the Nyah Irrigation District, as detailed in last Annual Report, is now almost completed and will be ready for the first irrigation next season. This equipment was delayed beyond the due delivery date because of war emergency work in the contractor's workshops.

MURRAY WORKS AND MAIN STORAGES.

MURRAY WORKS.

Hume Reservoir.

The programme of placing additional material on the embankment has been actively carried on throughout the year. Stone filling from the granite quarry was loaded into motor trucks by means of two $2\frac{1}{2}$ -cubic yard power shovels which were put into operation in November, 1940, and January, 1941, respectively. Weathered granite was loaded by two $\frac{3}{4}$ -cubic yard dragline excavators.

This plant, together with the motor trucks and floating plant for conveying the stony materials to the face of the embankment, has given very satisfactory service during the year; the quantities placed being 150,000 cubic yards of quarried grey granite and 160,000 cubic yards of weathered granite, a total of 310,000 cubic yards.

General maintenance was carried out on all parts of the embankments. The road surface along the crest of the main embankment was re-sealed with bitumen, and the fencing and drains re-aligned. The re-soiling of the downstream slope of the embankment and the planting of ornamental trees in the borrow pits were continued.

Yarrawonga Weir.

The weir has been in operation throughout the year and water has been diverted for irrigation requirements on both sides of the river.

The downstream toe of the bank, near which some scouring occurred in September, 1939, has been further protected by the construction of two stone groynes and by planting Kikuyu grass and poplar trees.

Fencing and surfacing of the roadway across the weir were completed and the road was opened for traffic on the 20th February, 1941.

The gates and valves operated satisfactorily during the year. In May and June, 1941, the pool was lowered 20 feet to enable the gates and gate gear to be thoroughly overhauled in accordance with the maintenance programme.

General improvements carried out during the year included fencing, levelling and grading, surface draining, and planting of ornamental trees.

Weirs and Locks.—Torrumbarry and Mildura.

Owing to the low river conditions the weir trestles at these structures were not removed during the year. The weirs provided satisfactory regulation of the river flow and met irrigation requirements throughout the period. General maintenance work was carried out, as necessary. Some additional works around the structures to reduce river bank erosion and improve the general appearance of the areas were also carried out.

MAIN STORAGES.

COLIBAN SYSTEM.

Lauriston Reservoir.

Construction work was carried out throughout the year and by 30th June, 1941, the works were substantially completed, except for the steel spillway gates, the installation of which will probably be delayed owing to the war situation.

All construction plant was operated in a very satisfactory manner during the year. The west bank was completed, the quantities of earth fill and stone beaching placed being 2,800 cubic yards and 500 square yards respectively.

In the main dam, the excavation of the foundations was completed, the quantities excavated during the year being—earth 1,500 cubic yards, rock 4,800 cubic yards. The concrete work was completed to spillway level and progress was made with the construction of the superstructure, the quantity of concrete placed being 21,400 cubic yards, making the total to date 32,000 cubic yards.

The two cone valves and the two regulating valves were received and placed in position and the outlet system made ready for water regulation. It is expected that water will be stored in the reservoir early in August, 1941, by which date provision can be made for the storage of some 12,000 acre feet up to the level of the gate sills.

As progress of work permitted, works buildings, plant, and equipment were transferred to the new construction works at Rocklands Dam near Balmoral.

Malmsbury Reservoir.

The reservoir has not been filled during the year, the highest water level being 12 feet below full supply level. Owing to the non-filling of the reservoir it was not possible to test the new spillway gates under working conditions. The gates, valves, and embankment were carefully maintained.

Upper Coliban Reservoir.

The reservoir was practically empty in April, 1941. Advantage was taken of this condition to overhaul the outlet tower, including the valves, gearing, and gangway. About 1,000 cubic yards of new stone beaching was placed on the upstream face of the dam, where required to give effective protection against wave action.

General maintenance works and improvement of the area have been carried out. A water supply to the caretaker's house was installed.

Eppalock Reservoir.

Repairs to the outlet valve system and the structure generally have been carried out and these works are now in a good condition.

GOULBURN STORAGES.

Eildon Reservoir.

The maximum level of the reservoir was 9 feet below F.S.L. on the 7th October, 1940, and it was practically empty in May, 1941.

Survey measurements taken during the year and an examination made of the dam in May, 1941, indicated that no appreciable earth movements had occurred in the embankment and that the structure was quite satisfactory.

The spillway gates and outlet valves were carefully maintained and operated. Some stone filling was placed on the upstream face of the bank to replace material removed by wave action.

Fencing around the bank was completed and ornamental trees were planted in suitable locations around the works.

Goulburn Weir.

The structure was well maintained throughout the year, the gates and overhead structure being painted with anti-corrosive paint and the turbines overhauled. The regulator gates on the Goulburn-Waranga Channel outlet were put in order. A new electric generator for supplying electric light to the structure was installed.

Soundings taken of the bed of the river downstream of the weir indicated an increase in the area affected by scour and further examinations will be made during the coming year. Some improvement in the river channel downstream was made to provide better accommodation for flood waters.

Stone beaching protection of the right river bank and the bed below the regulator gates of the Goulburn-Waranga Channel was carried out.

The area around the works was improved by the renewal of fences and the planting of ornamental trees.

Waranga Reservoir.

The maximum level of the reservoir was 4 feet 10 inches below F.S.L. on 8th October, 1940, and the lowest level was 16 feet 6 inches below F.S.L. on 8th May, 1941.

All weak places in the stone beaching along the bank were repaired with concrete and extra stone was placed in the stone heaps along the crest where required.

Great difficulty has been experienced in getting grass established along the downstream face of certain sections of the embankment. About half a mile of the lower slope was prepared and planted with couch grass and subsequently grass seed was broadcast. A small portable pump has been purchased and it is expected that by watering this area the bank may be satisfactorily protected. It is hoped to extend this protective work in the future.

The inlet structure was overhauled and painted. Ornamental trees were planted around the works.

WIMMERA STORAGES.

These storages comprise Wartook Reservoir, Fyans Lake, Lake Lonsdale, Pine Lake, and Taylors Lake.

The works generally have been well maintained during the year, as far as available funds permitted.

Rocklands Reservoir.

The Rocklands Dam is to be constructed on the Glenelg River, approximately 9 miles upstream from Balmoral. The dam will be of concrete gravity section and the capacity of the storage will be 264,000 acre feet. The outlet works include a tunnel, about three-quarters of a mile long situated about 3 miles below the dam, to convey a flow of 250 cusecs under the Black Range.

Preliminary work was commenced on 10th December, 1940, and the official inaugural ceremony was held on 20th March, 1941, when the Minister of Water Supply (Hon. F. E. Old, M.L.A.) turned the first sod in opening up the foundations of the dam itself.

A road bridge has been constructed over the Glenelg River at Balmoral and access roads have been formed and surfaced.

Large quantities of material, plant, and equipment have been transferred from Lauriston Reservoir and much additional construction plant has been purchased.

Good progress has been made with the establishment of a camp, the erection of works buildings and the installation of plant and equipment.

The site of the dam has been cleared and work on the downstream coffer dam is in hand. The excavation of the upper portal of the tunnel has been commenced.

GLENMAGGIE RESERVOIR.

The reservoir was at full supply level on 5th January, 1941, and the lowest level was 26 feet below F.S.L. on 1st July, 1940.

The outlet works and the internal drainage system of the dam operated freely during the year. Some improvement of the works area was carried out and the whole structure has been well maintained.

LAANECOORIE RESERVOIR.

The highest level of the reservoir was 2 feet 3 inches below F.S.L. on 27th September, 1940, and the lowest 15 feet 3 inches below F.S.L. on 8th June, 1941.

The outlet valves, overhead structure and spillway gates were painted where necessary. Some difficulty was encountered in grassing the back face of the dam, owing to the dry weather. It is hoped to overcome this during the coming year. Cracks in the bywash concrete lining were repaired. The structure has been well maintained.

WERRIBEE AND BACCHUS MARSH STORAGES.

Pykes Creek Reservoir.

The highest level of the reservoir was 11 feet 9 inches below F.S.L. on 1st February, 1941, and the lowest 36 feet below F.S.L. on 24th January, 1941.

The upstream facing was repaired where necessary and the structure is in good order. The outlet valves require some attention and this is now being considered by the Commission.

The tunnel from the Werribee River is now in reasonable condition but some additional concrete lining is required. Improvements to the inlet structure of the tunnel are now in hand.

The works have been well maintained and some further ornamental trees planted.

Melton Reservoir.

On 26th January, 1941, a record flood of maximum inflow of 55,700 cusecs occurred. The reservoir was practically empty just prior to the flood and the maximum rate of outflow was only 19,250 cusecs which passed over the spillway without damage to the structure.

Electricity from the State Electricity Commission's system was connected to the dam for lighting purposes, the spillway gates and the outlet valves operated satisfactorily, and the structure was well maintained.

LITTLE MURRAY WEIR.

These works require substantial overhauling and it is hoped to bring them to a reasonable standard of efficiency during the coming year.

GOULBURN MAIN CHANNELS.

Goulburn-Waranga Main Channel.

On this channel, the No. 2 flume which, during the previous year, caused a temporary breakdown to the system, has been replaced by a concrete structure. The work was carried out during the winter and necessitated an interruption in diversion of water to the Waranga Reservoir. Delay, however, was reduced to a minimum by the work being carried on continuously until completion, three shifts being employed on the job.

Waranga-Western Main Channel.

In order more efficiently to control the regulation of the water supply, the Commission appointed an Inspector to take charge of this channel, which is one of the main irrigation arteries in Northern Victoria. This control has resulted in a far more even regulation being obtained, particularly to the districts in the western part of the Goulburn System. General repairs and maintenance have been effected in this channel.

East Goulburn Main Channel.

This channel, which supplies all the districts controlled from the Shepparton Centre, has been closely investigated throughout the year in order to check up on the delays caused when alterations of supplies are necessary, particularly when increased volumes are required. It is considered that the restrictions at the road crossings and siphons are the primary cause and steps will be taken to overcome the inadequacy of the crossings.

INVESTIGATION AND DESIGN OF NEW IRRIGATION AND WATER SUPPLY PROPOSALS.

The work undertaken during the year included the investigation of proposals and the preparation of designs for new works and extensions to existing systems.

MURRAY VALLEY IRRIGATION DISTRICT.

Final location and surveys and the preparation of contract plans of the main and spur channels in the Strathmerton, Naringaningalook, and Katunga areas have been undertaken, together with designs for structures other than those covered by standardised plans.

GLENELG RIVER DEVELOPMENT.

The decision to proceed with construction on this work necessitated the prompt provision of plans for the Rocklands Dam and Outlet Channel. Detailed investigation of the dam site, which included some 1,900 feet of diamond core drilling, was expedited and the final location of the dam decided upon. The design of the dam is now proceeding, the leading dimensions of a gravity type structure having been determined.

Flume and channel capacities for the outlet were approved, grades and cross sectional dimensions determined and longitudinal section plans furnished for contractors who are now engaged on channel construction.

Designs have been prepared for the tunnel and other structures including road and occupation bridges, siphons and regulators to be built on the outlet channel.

MORNINGTON PENINSULA DISTRICT.

Plans of the main supply lines and reticulation of the Dromana-Portsea extension were prepared and designs of Service Basins for Portsea and Rosebud areas furnished.

BELLARINE PENINSULA DISTRICT.

A further report and design were prepared for a water supply to the township of Birregurra.

WATER RESOURCES OF VICTORIA INVESTIGATION.

Werribee River Basin.

Designs have been prepared for additional storage reservoirs in the Werribee River Basin, to supplement existing storages, i.e., the Pykes Creek and Melton Reservoirs serving the Bacchus Marsh and Werribee Irrigation Districts. This has involved further design and survey work, also sampling and testing of dam building materials.

A Second Progress Report on these investigations was completed and a Third Report is in course of preparation.

Further alternative designs of dams on the Werribee and Lerderderg Rivers and on Goodman's Creek are being prepared for submission to the Parliamentary Public Works Committee, which is inquiring into the question of providing additional water storages to safeguard water-users of the Bacchus Marsh and Werribee Irrigation and Water Supply Districts.

An investigation was made into the flows through the Werribee River-Pykes Creek diversion system, and recommendations submitted with regard to the regulation of flow to the tunnel and the capacity and lining of the connecting channel.

Loddon River.

Designs were prepared for the installation of mechanically operated sluice gates on the Loddon Weir at Janiember West to replace the existing drop bars. This work will be undertaken when funds become available. Surveys are in hand for the investigation of storage sites along this river.

Avoca River.

Preliminary surveys have been completed of a possible storage site at Gowar.

Torrumbarry System.

A comprehensive report on the works of this system is being prepared and an investigation will be made to ascertain the practicability of reducing water losses and improving efficiencies in the main carriers and lakes and within the District channel systems.

Water losses in this system are particularly heavy and, of the water diverted from the River Murray at the Torrumbarry Weir, only one-third is actually accounted for as delivered to irrigators in the districts supplied, the greater part of the balance being lost by evaporation from the lakes, main carriers and channels of the system.

If the efficiency of the system could be increased to deliver one-half of the total volume diverted—as in the case of the Goulburn System—the result would be equivalent to a substantial increase of storage on the River Murray, and would permit of very considerable increase in irrigation development from that river.

General.

Surveys have been completed or are in hand in connection with storages on the Goulburn River at Mitchellstown, and the Thomson River above Nambrok and Denison.

RIVER MURRAY WORKS.

Hume Reservoir.

Investigations into the condition of the Hume Reservoir embankment were continued. Bores were put down in the embankment and samples of the material taken. Tests were made on these samples to determine the characteristics and properties of the material composing the embankment.

Studies, incorporating the latest developments in the science of soil mechanics, were made of the stability of the embankment and reports prepared setting out the additional works considered necessary.

An Engineer of this Commission visited the United States of America at the request of the River Murray Commission to study the latest practice in that country in the investigation of factors affecting the stability of earth dams. The procedure adopted in the Hume Reservoir studies was found to compare well with the best American practice.

Torrumbarry Weir.

Designs have been prepared for the installation of ramp trestles at Torrumbarry Weir. These trestles are for the replacement of the timber bulkhead now used for closing the end of the weir.

COLIBAN DISTRICT.

Lauriston Reservoir.

Further plans of the spillway gates, supporting piers, approaches, and operating gangways connected therewith were prepared.

EILDON RESERVOIR.

An investigation has been put in hand to ascertain the practicability of increasing the capacity of this storage.

GOULBURN-WARANGA CHANNEL.

A survey is being carried out to ascertain the extent of siltation of this channel and the practicability of increasing its capacity.

MILITARY CAMPS.

Designs of water supply and drainage systems for many Military Camps were prepared and the works carried out on behalf of the Military Authorities.

MISCELLANEOUS.

Sewerage Excavation Safety Regulations.

Regulations under the Sewerage Districts Acts, 1938, have been framed for the purpose of ensuring the health and safety of persons employed in sewerage excavations.

The regulations were submitted to and approved by the Governor in Council.

WATERWORKS TRUSTS UNDER SUPERVISION OF COMMISSION.

Water supply systems in many country towns are controlled by Local Authorities under the general supervision of the Commission.

COUNTRY WATER SUPPLIES.

During the year under review many important water supply works were carried out by Waterworks Trusts and Local Governing Bodies, of which there are now 117 and 17 respectively.

Following the action of the Government in granting financial assistance on a liberal basis to enable desirable improvements and extensions to be made to existing town water supply schemes and to facilitate the installation of new schemes, many such works, already under construction at the beginning of the year, were completed, and other works of an urgent nature have been undertaken.

However, owing to the necessity for the conservation of all available funds for war purposes, the construction of all further works, including many very desirable improvements for which funds had previously been allotted, has been deferred.

The **Ballarat** Water Commissioners continued the installation of new pipe mains to provide an increased supply to the higher levels and other portions of the city.

The **Bairnsdale, Horsham, Lorne, Rochester, and Yarram** Waterworks Trusts and the **Warrnambool** City Council undertook extensive improvements to their reticulation systems, consisting of the replacement of old pipes by larger mains, thus providing the increased supplies necessitated by development of the towns.

The **Bealiba** Waterworks Trust is carrying out the renewal and enlargement of its main pipe line to improve the supply to the township.

The **Benalla** Waterworks Trust is constructing a large reservoir on Ryans Creek as the first stage in a scheme to obtain a more reliable supply of improved quality water by gravitation from this source, in lieu of the present supply which is pumped from the Broken River.

The **Corryong** Waterworks Trust extended its main pipe line and constructed a new concrete offtake weir in order to ensure continuity of supply.

The **Bet Bet** Shire Council is carrying out improvements to the **Dunolly** town waterworks to increase the available supply during periods of peak demand and in dry seasons.

The towns of **Foster** and **Lismore** are now supplied with water following the completion of the new water supply works by the recently constituted Waterworks Trusts.

The **Korumburra** Waterworks Trust is replacing its main pipe line by a larger main in order to increase the supply to the town and butter factory.

The **Orbost** Waterworks Trust has commenced the installation of a pipe line from the Rocky River to provide an increased supply of improved quality from this source in lieu of the present supply which cannot meet the growing needs of the town.

At **Tungamah** a new storage basin has been constructed by the Shire of Tungamah Waterworks Trust to enable an increased supply to be maintained during summer periods.

The **Swan Hill** Waterworks Trust has undertaken the installation of a new pumping plant and rising main to meet the greater demand in the high level portion of the town.

The **Underbool** Waterworks Trust, constituted during the year, has commenced the construction of works to supply the town with water.

Reticulation systems have been extended and improved by the installation of larger mains, and other works of improvement have been carried out in the following towns :—**Alexandra, Apollo Bay, Carisbrook, Colac, Hepburn, Omeo, Rutherglen, St. Arnaud, Tallangatta, Tarnagulla, Traralgon, Trentham, Wangaratta, Winchelsea, and Wodonga.**

DRAINAGE AND FLOOD PROTECTION.

DRAINAGE DISTRICTS.

Drainage works have been continued throughout Irrigation Districts. The Main Drainage System for the Rodney District has been extended a further 2 miles and all necessary structures installed. In the Shepparton Centre, the first stage of the construction of the Marionvale Depression Main Drain has been constructed for a length of 4 miles 68 chains, and the main road bridge completed. The progressive enlargement of other drainage systems in this centre is being carried out. In January and February, 1941, heavy rains caused some damage and a complete report on improvements required to the Shepparton system to prevent such floodings in the future has been prepared.

Only minor extensions were carried out to the Tongala and Rochester drainage systems but full use was made of the available mechanical excavators for the enlargement and remodelling of existing drains.

The whole of the drainage system in the Riverslea area in the Maffra District has now been completed.

In all drainage districts the construction of concrete drainage inlets from farm drains is proceeding. The work, when completed, will considerably reduce the siltation in main drains resulting from scours.

The prevalence of the weed growth in the drainage systems is of much concern to the Commission and is causing serious restrictions of the flow along the drains. Various experiments are being carried out in various districts to endeavour to ascertain the best means of coping with the problem.

The work of extending the drainage system in the Kerang East Drainage District was commenced, some 6 miles of drains, together with the necessary structures, having been completed and 4 miles partially completed. Maintenance of the existing system was also carried out.

Reconditioning of drains in the Cohuna Drainage District was continued, a length of 7 miles being completed for the year, making a total of 71 miles which have been deepened and regraded.

The extension of the Woorinen drainage system to serve an adjoining area of 380 acres, known as the Murrawee area, has been completed, involving the construction of $2\frac{1}{2}$ miles of open drains and some lengths of pipe drains. A few minor extensions of drains within the district are now in hand.

In the Tresco area further reconditioning work has been carried out, 50 chains of pipe drains and 3 miles of open cut channels being constructed during the year.

A commencement has been made with the construction of the Dingee drainage system, designed to serve lands within the Dingee Irrigation District. Earthworks of a length of 4 miles of the outfall section of the scheme (Myers Creek and Main Outfall Drain) were completed by means of a mechanical dragline excavator.

Proposals for the drainage of certain areas of Murrabit in the Koondrook Irrigation District have been investigated, and a scheme prepared for submission to the interested landholders.

FLOOD PROTECTION DISTRICTS.

Cardinia and Kooweerup.

In the Cardinia District, the existing Toomuc Catch Drain has been enlarged for a distance of $1\frac{3}{4}$ miles at its upper end, and training banks constructed for the control of flood flows. The work of remodelling the remaining length of this important drain is at present in progress.

In the Kooweerup District, the construction of the Western Levee Bank of the proposed Yallock Outfall has been extended a distance of 60 chains and is now completed from Western Port Bay to the South Gippsland Railway, where a new bridge over the eastern Straight Cut has been erected.

Two large Dragline Excavators, supplied under contract by Alfred Harman and Son, of Melbourne, were recently erected in the district at Bayles and are now operating satisfactorily on the Yallock Outfall about 2 miles below that township. These machines each have a bucket capacity of $2\frac{1}{2}$ cubic yards, and an average output of 120 cubic yards per hour.

The enlargement of the North West Main Catch Drain, which runs parallel to the Kooweerup Main Canal, has been completed for a distance of $1\frac{1}{2}$ miles from the Main Coast Road to the railway at Kooweerup.

During the year in the two districts approximately 110,000 cubic yards of earthwork were removed by mechanical means and other work including clearing, fencing, and concreting was carried out.

Maintenance work has comprised repairs to 26 bridges and other structures, the removal of growth and obstructions from drains totalling 145 miles in length, and the treatment of noxious weeds and vermin along some 50 miles of drainage reserves.

Privately owned suction plants, operating under an arrangement with the Commission, have removed about 30,000 tons of coarse clean sand from the Kooweerup Main Canal and about 5,000 tons from the Cardinia Drain during the year. To date, the total output of sand from the Kooweerup Canal is approximately 416,000 tons and from the Cardinia Drain approximately 32,000 tons.

Carrum.

General maintenance work has comprised repairs to structures, the cleaning out of drains totalling 40 miles in length, and extensive treatment of noxious weeds on the main Outfall to the Patterson River at Carrum.

Pursuant to the *Water Act* 1940, No. 4761, the Carrum Waterworks Trust is to be abolished and the Trust's District created the "Carrum Drainage District" under the jurisdiction and control of the Commission as on and from 1st July, 1941.

Kanyapella.

General repairs were carried out to the embankment at Warrigal Creek and, at the request of the landholders who contributed to the cost, this bank was widened and the surface sanded.

Loch Garry.

These flood protection works were not in operation during the year, no flooding having taken place in the Goulburn River. Repairs of the damage caused during the flooding last year were completed.

SEWERAGE.

There are now 38 Sewerage Authorities in country centres and schemes are in operation in 23 Sewerage Districts.

At the beginning of the year under review, sewerage schemes were under construction in eleven towns, and in five of these, namely, **Dimboola, Kyneton, Morwell, Murtoa, and Warragul**, the principal works were completed and houses are now being connected to the sewers, while at **Kyabram, Maffra, Mornington, Nhill, Portland, and Yarrawonga** the construction of works is well advanced.

The **Leongatha** and **Traralgon** Sewerage Authorities completed the preparation of final plans, and the construction of the works is now proceeding in both towns.

In the case of the seven centres where commencement of construction was deferred because of the national emergency, the schemes remain in abeyance.

RIVER IMPROVEMENT, CONTROL AND GAUGINGS.

WORKS.

From the Rivers and Streams Fund, 76 grants totalling £10,300 were made on the recommendation of the Commission by the Honorable the Commissioner of Public Works to Municipalities and other Authorities during the year, towards the cost of works for removing obstructions from streams and protecting the beds and banks from erosion. From 1930, when the Fund was established, until 30th June, 1941, the number of grants approved has been 584 and the total amount granted, £88,300. Rentals for river frontage licences paid into the Rivers and Streams Fund during the year amounted to approximately £10,300.

The protective works on the Avon River at Stratford, referred to in the last Annual Report, successfully withstood a flood in January, 1941, giving rise to the belief that the type of works undertaken will be satisfactory for the protection of the banks of the Avon River. The particular work in question was constructed for the purpose of protecting the railway bridge on the main Gippsland line. During the year works of a similar nature have been commenced at a bend upstream from, and for the purpose of protecting, the Princes Highway bridge at Stratford.

On the River Murray near the lower effluence to Wodonga Creek at Albury, additional protective works were carried out and, although no flood has occurred, the indications are that the bank of the Murray will be effectively protected and the tendency for enlargement of the Wodonga Creek controlled.

After making an enquiry into further proposed works on the Snowy River, the Public Works Committee recommended an expenditure of £6,230, adding that this should be made contingent on provision having been made for the maintenance of the work already carried out on this stream.

MURRAY LEVEES.

During the year, sixteen applications for permission to erect levees along and near the River Murray for the protection of lands from flooding were dealt with by the Interstate Committee appointed for the purpose.

SILTATION OF RESERVOIRS.

Sections have been established on several of the Commission's Reservoirs from which measurements can, in future, be made of the rate of siltation in these storages. Those reservoirs so dealt with during the year are **Laanecoorie, Malmsbury, Lauriston, Upper Coliban, and Spring Gully**. Additional sections were also established on the **Eildon Reservoir**.

As conditions permit, it is proposed to extend these surveys to include the **Glenmaggie, Melton, and Pykes Creek Reservoirs, and Lake Lonsdale**.

MINING AND SLUDGE ABATEMENT.

In co-operation with the Sludge Abatement Board and the Mines Department, the Commission has agreed to the diversion, crossing or passage of streams by gold mining dredges. In each case, special conditions and safeguards, including substantial cash deposits, have been imposed to ensure that the streams are not polluted and are left in as good or better condition than before mining operations commenced.

The dredges concerned are located alongside the Loddon River at Newstead, Campbell's Creek at Castlemaine and the Ovens River at Harrietville. The last-named dredge is not yet in operation.

Several other applications for alluvial mining leases have been investigated.

DIVERSION OF WATER.

The right of the State to the use and flow and to the control of water in rivers, creeks, streams and watercourses, lakes, lagoons, swamps and marshes, has been strictly exercised.

Owing to the very dry seasonal conditions which prevailed over the State, it was found necessary in several instances to enforce restrictions and control and regulate the use of water for irrigation from natural streams, particularly on the Bendigo Creek and Little River. The year resulted, however, in an increased demand by landholders outside irrigation districts for authority to divert water for irrigation. The authorised diversions in force comprise 7 under licences for periods up to fifteen years and 2,239 under annual permits, making a total of 2,246 compared with 2,067 for the previous year.

Details of licences and permits in force during the year are set out below.

—	Industrial.	Vineyards.	Orchards and Market Gardens.	Tobacco.	Miscellaneous.	Total.
<i>Licences—</i>						
Number in force	7	..	..	..	..	7
Area irrigated .. ..	..	..	..	..	..	..
<i>Permits—</i>						
Number in force	132	41	448	96	1,522	2,239
Area irrigated (acres) ..	..	956	1,794	752	13,381	16,883

A number of applications for "long-term" licences to divert water for irrigation purposes for a period of fifteen years, mainly from the River Murray and its tributaries and contiguous systems, were received during the year and are under consideration.

RIVER GAUGING.

As provided by section 32 of the *Water Act* 1928, the work of gauging and recording the flows of the principal rivers and streams of the State was continued. Weekly returns showing the volumes of water stored in reservoirs were made available for publication.

As a result of the low rainfall experienced during the winter months of 1940, stream flow during the period July to December, 1940, was considerably below the average. However, in January, 1941, rainfall was far in excess of the average over the whole State, and, with the exception of the Coliban Catchment, the condition of storages was greatly improved. In the Lake Lonsdale, Eildon Reservoir, Melton Reservoir, and Glenmaggie Weir Catchments, the run-off was the highest recorded in the month of January since the inception of gaugings at those sites in 1904, 1916, 1917, and 1920 respectively.

Although maximum rainfall registrations for January were recorded at many places throughout the State, serious flooding occurred only in the Werribee Catchment where the Lerderderg River at Darley reached the maximum recorded rate of 17,000 cusecs, and the inflow to the Melton Reservoir reached the record rate of 55,700 cusecs. Owing to the low state of the Melton Storage prior to the flood, the outflow was restricted to a maximum rate of 19,250 cusecs.

Good general rains again occurred in March and normal stream flow was recorded in most districts, but in the last three months, April to June, 1941, both rainfall and stream flow were much below the average.

During the year an automatic recorder was installed in the Gunbower Channel downstream of the headworks regulator and a float gauge was installed upstream of the regulator. A new gauging station was also established on the Campaspe River at Carlsruhe. The number of gauging stations in operation is now 54.

The following table shows the discharge of some of the principal streams during the year 1940-41, also the average annual discharge and the percentage departure from the average.

Stream.	Discharge for Year 1940-41.	Average Annual discharge since Year (—).	Percentage Departure from the Average.
	Acre feet.	Acre feet.	
River Murray at Jingellic	777,000	1,868,000 (1891)	— 58
Mitta River at Tallandoon	443,000	1,123,000 (1887)	— 60
Broken River at Goorambat	27,700	213,200 (1887)	— 87
Goulburn River at Eildon Weir	579,000	1,415,000 (1916)	— 59
Goulburn River at Murchison	944,000	2,216,000 (1882)	— 57
Coliban River at Malmsbury	*6,710	52,570 (1890)	— 87
Loddon River at Laanecoorie	9,400	176,100 (1891)	— 95
Little Wimmera River at Lake Lonsdale	20,600	74,400 (1904)	— 72
Werribee River at Melton Reservoir	47,230	56,270 (1917)	— 16
Bunyip River at Bunyip	91,000	125,700 (1908)	— 28
Thomson River at Cowwarr	213,700	328,200 (1901)	— 35
Macalister River at Glenmaggie Weir	237,100	432,100 (1920)	— 45

* Includes intake through Ashbourne channel.

MISCELLANEOUS.

ENGINEERING RESEARCH LABORATORY.

The volume of work being handled in this laboratory has increased steadily throughout the year. This is due on the one hand to the development of the science of soil mechanics and the growing recognition of its importance in reservoir construction, and on the other hand to the many recent water supply and sewerage reticulation installations at military camps.

The work carried out of Research and Testing is summarized in tabular form (as far as is possible) under the following sub-headings:—

- (1) Routine Laboratory Tests.
- (2) Routine Outside Tests.
- (3) Inspection and Testing of Materials.
- (4) Chemical and Physical Examination of Materials.
- (5) Water Purification and Analysis.
- (6) Research.

(1) Routine Laboratory Tests.

	Normal Portland Cement.	Low-Heat Portland Cement.	Concrete Specimens.
	tons.	tons.	tons.
For the Commission	4,123	3,508	660
For other Departments	13,230	..	250
Totals	17,353	3,508	910

(2) Routine Outside Tests.

In addition to the requirements of the various undertakings of the Commission, testing of materials was carried out, to a considerable extent, in connection with installations at military camps.

Pipes of different sizes and pressure heads were tested, but, for the sake of brevity, the various types have been tabulated hereunder without reference to such particulars:—

Material.	Length.	Number.
	feet.	
Asbestos-Cement Pipes	302,500	..
Cast-iron Pipes	1,272	..
Cement Concrete Pipes (High Pressure)	2,264	..
Sluice Valves .. .. .	..	348
Air Valves .. .. .	..	39
Positive Type Water Meters .. .. .	..	75
Totals	306,036	462

(3) *Inspection and Testing of Materials.*

The nature of certain raw and fabricated materials, or the use to which they are to be put, makes routine testing either impracticable or inexpedient, and in these cases a careful inspection is made prior to acceptance for the Commission's works.

The class of material inspected consisted of the following:—

Material.	Length.	Number.
	feet.	
Cement Concrete Pipes	75,754	..
Collars for Cement Concrete Pipes .. .. .	..	1,590
Cement Manhole Covers .. .. .	..	100
Glazedware Pipes	3,504	..
Extruded Rubber Strip	1,885	..
Rubber Rings (for Asbestos-Cement Pipes) .. .. .	..	1,863
Cast-iron Gibault Joints (for Asbestos-Cement Pipes) .. .. .	..	3,918
Cast-iron Blank Ends (for Asbestos-Cement Pipes) .. .. .	..	227
Fire Plugs .. .. .	..	218
Fire Plug Covers .. .. .	..	474
Valve Covers .. .. .	..	96
Castings (such as Tees, Distance Pieces, Bends) .. .. .	..	1,311
Cyclometer Fittings (Sets) .. .. .	..	30
High Pressure Ferrule Stop Cocks .. .. .	..	600
Galvanized-iron Water Piping and Fittings	2,116	103
Mild Steel Fabricated Items .. .. .	..	938
Cast-iron Gratings .. .. .	..	174
Totals	83,259	11,642

NOTE.—In addition to the material set out above, many other items, such as shafts, brackets, ladders, gates and buckets, and some timber were inspected.

(4) *Chemical and Physical Examination of Materials.*

Samples of water from various parts of the State have been received and analysed.

Drainage effluents were also examined and methods of treatment for sedimentation recommended.

Analyses were made of a number of samples of bronzes for valve seatings for the Lauriston Reservoir.

Samples of soil have been tested regularly from the Hume Reservoir Embankment.

A series of disturbed and undisturbed samples of material from the Hume Reservoir Embankment were sent to America early in 1941 for testing at the Bureau of Reclamation Laboratories at Denver.

The main Soil Mechanics Laboratory, which was set up originally at Hume Reservoir, has now been incorporated with the Commission's new laboratories in Melbourne.

Material has also been analysed and tested from sites for borrow pits in connection with reservoir proposals on the Werribee River.

A small earthen barrage was constructed on the Gunbower Creek at Cohuna, the control of the placing of material and of its moisture content and compaction being maintained throughout. Materials have also been received from Janiember in connection with the Loddon River storage investigation; Eildon Reservoir; Lauriston Reservoir; and from the Benalla Waterworks Trust in connexion with a proposed reservoir on Ryan's Creek. All these materials were subjected to the appropriate tests.

(5) *Water Purification and Analysis.*

Some attention was devoted to the detection and removal of contamination consequent on air raids, and a portable set of re-agents for the purpose has been designed.

Bacteriological tests have been made on the water supply to several military camps, and chlorinating apparatus has been supplied to camps in various parts of the State.

In the early summer, the water supply to Warrnambool from the Otway System developed a slight discolouration. An inspection was made and examination of the water revealed the presence of an algal growth of the genus *Micrasterias* of the *Chlorophyciae* class. Treatment with copper sulphate has removed this infestation.

Algal infestation was also reported in midsummer to be present in the storages at Yarrowonga and Wonthaggi. In these, the growth was anabaena. The Wonthaggi water was cleared by treatment with copper sulphate, whilst the Yarrowonga water cleared naturally soon after trouble arose.

(6) *Research.*

Measurement of temperature of concrete by means of copper-constantan thermo-couples was continued in the buttresses at Lauriston Reservoir. Temperatures of the mass over various intervals after pouring were recorded and compared with those of a buttress paddock of Normal Portland Cement concrete.

Some attention was devoted to the measurement of stresses in concrete by acoustical means. An instrument was made to measure the differences in tension in a stretched wire caused by the strain in the concrete.

Experimental work was carried out in regard to the conditions of making and curing of concrete test blocks, particularly in connection with those from Lauriston Reservoir.

Research work in soil mechanics has been hampered by the fact that the main soils laboratory has been located for the most part of the year at Hume Reservoir. As pointed out this difficulty has been overcome now that the equipment has been transferred to Melbourne.

LAND VALUATIONS.

Valuations for Rating.

Valuations of two of the Commission's Districts were made and 75 supplementary valuations were returned.

Valuations for Land Compensation.

Three hundred and seventy-nine land compensation cases were dealt with and offers totalling £41,210 were made in respect of claims submitted in these cases for £122,308. One hundred and sixty cases in which claims totalled £56,010 were settled for £27,065.

In the last thirteen years, settlements aggregating £850,000 have been made with property-owners whose lands have been acquired for the Commission's works.

General.

The Commission confirms the view stated in the last Annual Report that rating and construction authorities should be freed from the work of land valuation and that this should be carried out by a department created for the purpose.

OCCUPATION OF COMMISSION LANDS.

The Commission has continued the leasing to suitable tenants of lands not required in connection with its works, 1,080 occupancy permits for periods up to fifteen years being now in force.

CROWN LANDS.

Numerous applications for alienation or occupation of Crown Lands, including water reserves and creek frontages, were referred by the Lands Department to this Commission for report in connection with water supply interests.

Applications for leases in the catchment area of the Hume Reservoir on the River Murray and in other localities where the question of erosion arises, are now referred to the recently appointed Soil Conservation Board for consideration and advice.

PART IV.—RATING AND FINANCE.

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

The statements which follow set forth the whole of 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 and the number of assessments in such Districts, 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.

During the year, rates were, for the first time, made in the Woorinen Drainage District and the Dromana-Portsea Urban District. An irrigation charge was also made for the first time in the Murray Valley Irrigation Water Supply District.

For the purpose of making and levying rates and charges as provided by the Water Acts 1928 and 1939, the lands in 43 Irrigation and Water Supply and Waterworks Districts were arranged in not more than three divisions, those in 13 Flood Protection and Drainage Districts in not more than four divisions, and those in the Carrum Waterworks Trust District in five divisions in accordance with the relative benefits derived by such lands from the works, while, as heretofore in the urban portion of the Coliban System, a minimum and tapering rate was made.

As the result of a poll by ratepayers in the Cardinia Flood Protection District as to the basis of rating, it was decided, in conformity with the majority decision of the ratepayers, to revert to the flood protection charge per acre instead of the rate in the £1 of the valuation of lands within the District.

As provided by the *Water Act* 1940, the capital liabilities of those Urban Districts and Divisions for which the rate previously exceeded 3s. 6d. in the £1 were adjusted so as to enable the rate to be reduced to that amount.

Under the powers conferred by Section 62 of the *Water Act* 1928, minimum annual rates were fixed by the Commission on the first division lands in 20 Waterworks Districts.

In 26 Districts the Commission made and levied compulsory irrigation charges, in 3 Flood Protection Districts a charge was made, and in 3 Waterworks Trusts Districts taken over by the Commission, rates were also made.

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

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

Districts Supplied with Water for Domestic and Ordinary Use and for Watering Cattle or Other Stock.	Area of District in Acres.	Area classified as Irrigable in Acres.	Water Rights Apportioned (including Extra Rights) in Acre Feet.	Annual Value of Lands and Tenements.	Rate in the £1 made during Year ended 30th June, 1941.	Compulsory Charge per Acre Foot of Water Right, Season 1940-41.	Number of Assessments.	Estimated Number of Persons dwelling in District.

IRRIGATION AND WATER SUPPLY DISTRICTS.

Supplied from Goulburn System.				Valuation by Commission.	Divisions.				
					1st.	2nd.	3rd.		
					s. d.	s. d.	s. d.		
				£				s. d.	
1. BOORT	80,074	56,718	11,339	18,395	1 0	0 6	..	7 0	276 498
2. CALIVIL	61,135	32,744	6,548	16,467	1 0	..	..	7 0	193 497
3. DINGEE	8,849	4,361	4,361	3,329	1 0	..	..	7 0	68 195
4. KATANDRA	13,966	11,184	7,336	8,126	1 0	..	..	7 0	121 440
5. NORTH SHEPPARTON ..	121,722	61,415	13,329	54,069	1 0	0 6	0 3	7 0	473 1,240
6. ROCHESTER	181,315	56,924	57,320	66,684	1 0	0 6	0 3	6 0	911 2,868
7. RODNEY	272,660	190,293	60,898	134,772	1 0	0 6	0 3	6 0	1,896 5,310
8. SHEPPARTON	24,487	21,397	21,397	35,548	1 0	..	..	6 0	677 2,450
9. SOUTH SHEPPARTON ..	33,670	17,923	4,404	15,362	1 0	0 6	..	6 0	129 385
10. TONGALA-STANHOPE ..	76,160	47,763	47,839	48,775	1 0	0 6	0 3	6 0	919 2,639
11. TRAGOWEL PLAINS ..	218,358	148,275	31,105	44,418	1 0	0 6	0 3	7 0	637 1,022
Totals	1,092,396	648,997	265,926	445,945					6,300 17,544

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

Districts Supplied with Water for Domestic and Ordinary Use and for Watering Cattle or Other Stock.	Area of District in Acres.	Area classified as Irrigable in Acres.	Water Rights Apportioned (including Extra Rights) in Acre Feet.	Annual Value of Lands and Tenements.	Rate in the £1 made during Year ended 30th June, 1941.	Compulsory Charge per Acre Foot of Water Right, Season 1940-41.	Number of Assessments.	Estimated Number of Persons dwelling in District.		
IRRIGATION AND WATER SUPPLY DISTRICTS—continued.										
Supplied from Yarrawonga Weir.				Valuation by Commission. £	Divisions.			s. d.		
					1st. s. d.	2nd. s. d.	3rd. s. d.			
12. MURRAY VALLEY ..	62,986	48,022	13,986	25,787	1 0	0 6	0 3	10 0	319	480
Supplied from Torrumbarry System.										
13. COHUNA ..	71,899	35,445	35,631	36,656	1 9	0 10½	0 5¼	6 0	557	1,410
14. DRY LAKE ..	1,806	779	..	279	(No rate made)			(No charge made)	4	10
15. FISH POINT ..	6,327	3,756	1,845	1,533	1 0	..	..	6 0	33	48
16. KERANG ..	85,321	54,784	18,901	17,651	1 9	0 10½	0 5¼	5 0	402	685
17. KOONDRICK ..	82,687	23,244	23,244	23,980	1 9	0 10½	0 5¼	6 0	376	1,040
18. LEITCHVILLE ..	13,807	12,109	4,258	9,423	1 9	0 10½	..	6 0	99	244
19. MYSTIC PARK ..	20,260	7,928	2,690	3,337	1 0	..	..	6 0	84	100
20. SWAN HILL ..	36,478	21,925	21,928	30,645	1 0	..	..	6 0	626	1,825
21. THIRD LAKE ..	11,482	3,771	2,513	2,156	1 9	0 10½	..	6 0	45	75
Totals ..	330,067	163,741	111,010	125,660					2,226	5,437
Supplied from Southern State Works.										
22. MAFFRA-SALE ..	51,831	22,130	22,141	58,767	1 0	0 6	..	10 0	450	2,350
23. BACCHUS MARSH ..	6,656	3,332	3,332	15,039	1 0	0 6	0 3	22 6	250	635
24. WERRIBEE ..	10,137	8,154	8,155	21,090	1 0	0 6	..	12 0	234	1,391
Totals ..	68,624	33,616	33,628	94,896					934	4,376
Supplied direct from River Murray.										
25. MERBEIN ..	10,353	7,772	19,430	49,455	0 6	..	..	62 6	551	3,000
26. NYAH ..	3,831	2,828	7,372	8,688	0 6	..	..	53 4	235	850
27. RED CLIFFS ..	30,956	11,283	28,206	81,404	0 6	0 3	0 1½	70 0	934	3,150
Totals ..	45,140	21,883	55,008	139,547					1,720	7,000
Supplied on a Sales of Water Basis.										
28. CAMPASPE ..	19,725	..	..	8,871	2 0	1 0	0 6	6 0	149	170
29. DEAKIN ..	161,562	14,092	..	45,599	1 8	0 10	0 5	6 0	551	1,575
30. TRESKO ..	3,482	2,000	..	3,529	2 6	1 3	..	20 0	215	210
Totals ..	184,769	16,092	..	57,999					915	1,955
Totals (Irrigation) ..	1,783,982	932,351	479,558	889,834					12,414	36,792

VALUATIONS, RATES, AND FLOOD PROTECTION CHARGES—continued.

Districts supplied with Water for Domestic and Ordinary use and for Watering Cattle or other Stock.	Annual Value of Lands and Tenements.	Rate in the £1 made during Year ended 30th June, 1941.			Minimum Rate per 640 Acres on Lands in the First Division.	Number of Assessments.	Estimated Number of Persons dwelling in District.
WATERWORKS DISTRICTS.							
Supplied from Wimmera-Mallee System.	Valuation by Commission. £	Divisions.			£ s. d.		
		1st. s. d.	2nd. s. d.	3rd. s. d.			
31. BIRCHIP	41,961	2 1	1 0½	0 6¼	9 12 0	646	2,500
32. HINDMARSH	8,542	2 8	1 4	0 8	10 13 4	51	226
33. KARKAROOC	129,107	1 11	0 11½	0 5¾	9 12 0	1,260	4,150
34. LONG LAKE	72,327	2 6½	1 3¼	0 7½	9 12 0	798	2,100
35. SEA LAKE	63,782	2 5	1 2½	0 7¼	9 12 0	657	2,250
36. TYNTYNDER	51,419	3 0	1 6	0 9	9 12 0	1,006	2,000
37. TYRRELL	39,668	3 0	1 6	0 9	9 12 0	813	2,690
38. TYRRELL WEST	59,135	3 0	1 6	0 9	9 12 0	1,354	3,360
39. UPPER WESTERN WIMMERA	63,858	1 4	0 8	0 4	9 12 0	477	1,660
40. UPPER WIMMERA UNITED ..	106,189	1 4	0 8	0 4	9 12 0	1,007	2,550
41. WESTERN WIMMERA	278,679	1 0½	0 6¼	0 3½	..	2,660	8,626
42. WIMMERA UNITED	313,551	1 0½	0 6¼	0 3½	9 12 0	2,476	7,600
43. WYCHEPROOF	75,945	2 1	1 0½	0 6¼	9 12 0	1,058	2,750
Totals	1,304,163					14,263	42,462
Supplied direct from River Murray.							
44. CARWARP	4,715	3 4	1 8	0 10	10 13 4	144	485
45. CARWARP CENTRAL	790	3 4	1 8	0 10	10 13 4	17	75
46. COREENA	6,260	3 4	1 8	0 10	10 13 4	135	240
47. MILLEWA	18,767	3 4	1 8	0 10	10 13 4	420	1,175
48. MILLEWA CENTRAL	11,663	3 4	1 8	0 10	10 13 4	299	650
49. YELTA	2,059	3 4	1 8	0 10	10 13 4	57	50
Totals	44,254					1,072	2,675
Supplied by Bores.							
50. WALPEUP WEST	48,211	0 8	0 4	..	4 16 0	1,069	2,020
Supplied from Coliban System.							
51. AXE CREEK	1,637	1 9½	..	..	..	67	250
52. HARCOURT	6,652	1 4	..	..	..	172	600
Totals	8,289					239	850
Miscellaneous.							
53. KERANG NORTH-WEST LAKES	7,400	0 5	..	..	..	180	325
54. NORMANVILLE	28,623	1 6	0 9	0 4½	10 13 4	272	470
55. WERRIBEE	5,161	2 0	1 0	..	..	65	132
Totals	41,184					517	927
Totals (Waterworks)	1,446,101					17,160	48,934

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, 1941.	Minimum Rate for lands on which there is a building.	Minimum Rate for lands on which there is no building.	Sales of Water Charge per 1,000 gallons.	Number of Assessments.	Estimated Number of Persons dwelling in District.
URBAN DIVISIONS AND DISTRICTS.							
<i>Supplied from Bellarine Peninsula System.</i>	Municipal Valuation.						
	£	s. d.	s. d.	s. d.	s. d.		
56. ANGLESEA	2,955	2 6	50 0	15 0	1 0	161	150
57. BARWON HEADS AND OCEAN GROVE	10,919	2 6	50 0	15 0	1 0	739	850
58. DRYSDALE	3,143	2 6	50 0	15 0	1 0	175	600
59. PORTARLINGTON	3,365	2 6	50 0	15 0	1 0	248	600
60. QUEENSLIFF AND POINT LONSDALE	22,650	2 6	50 0	15 0	1 0	818	3,100
61. TORQUAY	4,831	2 6	50 0	15 0	1 0	331	450
Totals	47,863					2,472	5,750
<i>Supplied from Mornington Peninsula System.</i>							
62. BERWICK	7,136	2 1	30 0	7 6	1 0	312	970
63. BITTERN	623	3 1	30 0	7 6	1 0	65	90
64. BUNYIP	3,271	2 4	50 0	10 0	1 0	154	400
65. CARRUM	91,386	1 5	30 0	7 6	1 0	4,233	7,500
66. CRANBOURNE	3,591	2 0	30 0	7 6	1 0	143	300
67. CRIB POINT	3,363	3 1	50 0	10 0	1 6	277	596
68. DANDENONG	70,103	1 3	30 0	7 6	1 0	2,256	5,100
69. DROMANA—PORTSEA	24,939	0 9½	15 0	2 6	1 3	1,717	1,665
(Rate made for period 12th April, 1941 to 30th June, 1941, on properties between Dromana and Rye)							
70. FRANKSTON	71,653	1 4	30 0	7 6	1 0	2,492	5,936
71. GARFIELD	2,445	2 4	50 0	10 0	1 0	100	300
72. HASTINGS	2,472	3 0	40 0	10 0	1 0	180	488
73. LONGWARRY	2,096	2 6	50 0	10 0	1 0	122	275
74. MORNINGTON	38,557	1 6	30 0	7 6	1 0	993	2,300
75. MOUNT MARTHA	8,067	2 1	50 0	10 0	1 3	172	10,240*
76. PAKENHAM	5,837	2 1	50 0	10 0	1 0	221	720
77. SOMERVILLE	2,622	2 6	30 0	7 6	1 0	82	304
78. SOUTH FRANKSTON	17,624	2 3	100 0	20 0	1 0	288	872
79. SPRING VALE	42,180	1 6	30 0	7 6	1 0	3,013	3,350
Totals	397,965					16,820	41,406
<i>Supplied from Otway System.</i>							
80. CAMPERDOWN	30,600	3 0	60 0	10 0	1 3	929	2,900
81. COBDEN	9,020	3 0	60 0	10 0	1 3	277	800
82. TERANG	22,409	3 0	60 0	10 0	1 3	664	2,050
Totals	62,029					1,870	5,750
<i>Supplied from Wimmera-Mallee System.</i>							
83. ANTWERP	224	3 6	70 0	10 0	2 0	25	64
84. BERRIWILLOCK	1,388	3 6	20 0	..	1 6	64	110
85. BEULAH	3,640	3 0	20 0	..	1 3	218	400
86. BIRCHIP	6,071	1 8	20 0	..	1 3	291	700
87. BRIM	1,179	3 6	60 0	10 0	1 6	89	140
88. CHILLINGOLLAH	365	3 6	70 0	10 0	2 0	37	55
89. CHINKAPOOK	562	3 6	70 0	10 0	2 0	42	115
90. CULGOA	1,344	3 6	20 0	..	1 6	60	100
91. DIMBOOLA	16,290	1 8	20 0	..	1 0	595	1,624
92. DOEN	169	2 0	40 0	5 0	1 6	6	26
93. HOPETOUN	6,635	3 0	20 0	..	1 3	291	690
94. JEPARIT	9,034	2 1	20 0	..	1 3	290	836
Carried forward	46,901					2,008	4,860

* Includes 10,000 in military camp.

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, 1941.	Minimum Rate for lands on which there is a building.	Minimum Rate for lands on which there is no building.	Sales of Water Charge per 1,000 gallons.	Number of Assessments.	Estimated Number of Persons dwelling in District.
URBAN DIVISIONS AND DISTRICTS—continued.							
<i>Supplied from Wimmera-Mallee System—continued.</i>	Municipal Valuations.						
Brought forward ..	£ 46,901	s. d.	s. d.	s. d.	s. d.	2,008	4,860
95. JUNG JUNG ..	909	3 0	30 0	7 6	1 6	45	159
96. LALBERT ..	828	3 6	70 0	10 0	1 6	56	115
97. LASCELLES ..	957	3 6	20 0	..	1 6	83	125
98. MANANGATANG ..	2,131	3 6	70 0	10 0	2 0	118	290
99. MARNOO ..	1,221	3 6	50 0	10 0	1 6	56	230
100. MINYIP ..	6,355	2 9	20 0	..	1 6	261	700
101. NANDALY ..	290	3 6	70 0	10 0	2 0	33	105
102. NATIMUK ..	3,251	1 6	20 0	..	1 0	141	542
103. NULLAWIL ..	781	3 6	70 0	10 0	2 0	43	84
104. OUYEN ..	9,443	3 0	20 0	..	2 0	468	1,030
105. PATCHEWOLLOCK ..	527	3 6	70 0	10 0	2 0	67	140
106. QUAMBATOOK ..	3,274	2 10	20 0	..	1 3	170	365
107. RAINBOW ..	9,167	1 8	20 0	..	1 3	312	900
108. RUPANYUP ..	5,797	2 10	20 0	..	1 6	217	610
109. SEA LAKE ..	7,616	2 0	20 0	..	1 3	278	600
110. SPEED ..	424	3 6	70 0	10 0	2 0	27	50
111. TEMPY ..	336	3 6	70 0	10 0	2 0	43	80
112. ULTIMA ..	2,196	3 0	20 0	..	1 3	202	300
113. WAITCHIE ..	303	3 6	70 0	10 0	2 0	38	50
114. WALPEUP ..	832	3 6	70 0	10 0	2 0	60	150
115. WATCHEM ..	1,800	3 3	20 0	..	1 6	115	200
116. WOOME LANG ..	1,987	3 6	20 0	..	1 3	119	230
117. WOORINEN ..	639	3 6	70 0	10 0	1 6	66	100
118. WYCHEPROOF ..	7,683	2 0	20 0	..	1 3	253	625
119. YAAPEET ..	309	3 6	70 0	10 0	2 0	33	60
Totals ..	115,957					5,312	12,700
<i>Supplied from Torrumbarry System.</i>							
120. COHUNA ..	11,117	1 10	20 0	..	1 3	455	1,047
121. KOONDROOK ..	3,109	2 9	20 0	..	1 3	229	545
122. LEITCHVILLE ..	1,936	3 6	40 0	10 0	1 6	116	230
123. MURRABIT ..	254	3 6	70 0	10 0	2 0	33	55
Totals ..	16,416					833	1,877
<i>Supplied direct from River Murray.</i>							
124. CARWARP ..	121	3 6	70 0	10 0	2 0	21	18
125. LAKE BOGA ..	2,257	3 0	20 0	..	1 3	178	368
126. MERBEIN ..	10,546	2 9	20 0	..	1 0	412	1,400
127. MERINGUR ..	294	3 6	70 0	10 0	2 6	34	55
128. NYAH ..	869	2 9	55 0	..	1 3	62	120
129. NYAH WEST ..	4,308	2 9	60 0	10 0	1 6	212	330
130. PIANGIL ..	1,058	3 6	60 0	10 0	1 6	99	120
131. RED CLIFFS ..	16,038	2 3	30 0	15 0	1 0	434	1,000
132. WERRIMULL ..	896	3 6	70 0	10 0	2 6	69	120
Totals ..	36,387					1,521	3,531
<i>Miscellaneous.</i>							
133. BACCHUS MARSH ..	16,764	1 6	20 0	..	1 6	572	1,820
134. COROP ..	178	2 6	20 0	..	1 0	24	85
135. Dingee ..	344	3 6	40 0	10 0	1 3	25	58
136. HEYFIELD ..	4,184	2 6	50 0	10 0	1 0	153	550
137. HICKSBOROUGH ..	416	3 6	60 0	10 0	1 6	41	100
138. LOCKINGTON ..	1,610	3 0	60 0	10 0	1 6	94	170
139. MARONG ..	812	3 0	40 0	10 0	1 0	60	300
140. NEWSTEAD ..	2,941	3 0	60 0	10 0	1 0	156	400
Carried forward ..	27,249					1,125	3,483

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, 1941.	Minimum Rate for lands on which there is a building.	Minimum Rate for lands on which there is no building.	Sales of Water Charge per 1,000 gallons.	Number of Assessments.	Estimated Number of Persons dwelling in District.
URBAN DIVISIONS AND DISTRICTS—continued.							
Brought forward ..	£ 27,249	s. d.	s. d.	s. d.	s. d.	1,125	3,483
<i>Miscellaneous—continued.</i>							
141. NORTH WONTHAGGI ..	3,544	2 0	30 0	5 0	1 6	426	1,000
142. PYRAMID HILL ..	3,514	2 6	45 0	10 0	1 6	162	370
143. STANHOPE ..	1,871	2 9	55 0	10 0	1 3	81	300
144. WONTHAGGI ..	31,207	1 6	20 0	..	1 6	1,316	8,000
Totals ..	67,385					3,110	13,153

COLIBAN SYSTEM.

		Rate in the £1 made during year ended 30th June, 1941.	Minimum Rate for lands on which there is a building.			
145. COLIBAN ..	411,724	On Valuations up to £300 ..	1 6	20 0	1 0	14,563
		From £301 up to £700	1 3	..	..	..
		From £701 on ..	1 0	..	..	..
		Vacant Lands ..	1 6	..	..	..
Includes Bendigo, Castlemaine, Eaglehawk, Maldon, Barker's Creek, Campbell's Creek, Chewton, Elphinstone, Epsom-Ascot, Fryers-town, Guildford, Harcourt, Huntly, Kangaroo Flat, Myer's Flat, Raywood, Sebastian, Spring Gully, Taradale, and Yapeen. See under Waterworks Districts for Axe Creek and Harcourt rural supplies and under Urban Districts for Marong.						
Totals (Urban) ..	1,155,726					46,501
						144,667

WATERWORKS TRUSTS.

(Administered by Commission.)

Districts supplied with Water for Domestic and Ordinary Use and for Watering Cattle or Other Stock.	Annual Value of Lands and Tenements.	Rate in the £1 made for Year ending 31st December, 1941.			Number of Assessments.	Estimated Number of Persons dwelling in District.
		Divisions.				
	Valuation by Commission.	1st	2nd	3rd		
	£	s. d.	s. d.	s. d.		
146. LODDON UNITED ..	68,003	0 8	0 4	0 2	789	812
	Municipal Valuation.					
	£					
147. CARRUM ..	£19,395	1st Division	..	1 10	3,730	1,460
(Rate made for period 1st January, 1941 to 30th June, 1941)		2nd Division	..	0 11		
		3rd Division	..	0 6		
		4th Division	..	0 5		
		5th Division	..	0 1½		
148. MITIAMO ..	927	..	..	4 0	57	137
Totals (Trusts) ..	£88,325				4,576	2,409
Grand Totals	£3,579,986				80,651	232,802

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

District.	Area in Acres or Annual Value of Lands and Tenements.	Charge per Acre or Rate in the £1 made during Year ended 30th June, 1941.	Number of Assessments.	Estimated Number of Persons dwelling in District.
FLOOD PROTECTION DISTRICTS.				
		Divisions.		
		1st. 2nd. 3rd. 4th.		
	Acres.	s. d. s. d. s. d. s. d.		
149. CARDINIA	34,837	3 2 2 4½ 1 7 0 9½	221	850
150. KANYAPELLA	14,494	0 5 .. 0 2½ ..	44	74
151. LOCH GARRY	41,681	0 5 	108	200
	91,012			
	Valuation by Commission.	Rate in the £1 made during Year ended 30th June, 1941.		
	£	s. d. s. d. s. d. s. d.		
152. LOWER KOOWEERUP ..	56,963	2 0 1 6 1 0 0 6	941	2,800
Totals (Flood Protection)	£56,963		1,314	3,924

DRAINAGE DISTRICTS.

153. COHUNA	35,066	1 6 1 1½ 0 9 0 4½	511	1,213
154. KERANG EAST	16,992	1 8 1 3 0 10 0 5	354	710
155. MAFFRA-SALE	25,923	1 2 0 10½ 0 7 0 3½	244	1,090
156. MERBEIN	43,304	0 9 .. 0 4½ ..	387	3,000
157. RED CLIFFS	71,234	0 9 .. 0 4½ ..	606	2,750
158. ROCHESTER	26,939	1 6 1 1½ 0 9 0 4½	465	1,660
159. RODNEY	17,063	1 3 0 11½ 0 7½ 0 3½	296	730
160. SHEPPARTON	55,853	1 2 0 10½ 0 7 0 3½	899	3,300
161. TONGALA-STANHOPE ..	50,860	1 6 1 1½ 0 9 0 4½	772	2,702
162. WERRIBEE	21,698	0 8 0 6 0 4 0 2	249	1,311
163. WOORINEN	10,360	1 2 	239	374
Totals (Drainage) ..	£375,342	.. .. .. ..	5,022	18,840

MISCELLANEOUS WATER CHARGES.

For Irrigation Supplies from the Commission's channels to lands outside constituted districts the charge for water is 50 per cent. above the compulsory charge ruling in the nearest irrigation district.

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

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

Name of Waterworks District.	Amount of Charge per 1,000 Gallons for Water Supplied.	Minimum Charge per Annum.
	s. d.	s. d.
BELLARINE PENINSULA	1 0	50 0
MORNINGTON PENINSULA	1 0	50 0
MORNINGTON PENINSULA (EXTENSION) ..	1 3	60 0
OTWAY	1 3	60 0

FINANCE

(W. Lambert, B.Com., D.P.A., A.F.I.A., Accountant.)

REVENUE.

The respective amounts collected during the past three years were—£560,679 for 1938–39, £615,277 for 1939–40, and £611,235 for 1940–41.

The amount collected, which included arrears, represented the equivalent of 110 per cent. of the year's assessment (£511, 457) for rates and charges. Additional charges for sales of water, interest on arrears, meter rents, &c., were £165,242. The total collectable new money for the year, therefore, was £676,699, of which the actual sum collected (£611,235) represented the equivalent of 90 per cent.

An amount of £110,872 was written off the books of the Commission for the financial year 1940–41 as compared with £110,687 for the previous year. The large amounts which have been written off the books of the Commission over the past few years are mainly the result of adjustments of accounts of water-users in arrears, in rural districts. The adjustments have been made pursuant to legislation, as listed hereunder:—

	Amount of remission to 30th June, 1941. £	Number of individual cases involved.
<i>Farmers' Debts Adjustment Act</i> 1935, No. 4326 ..	92,969	1,369
<i>Water Act</i> 1937, No. 4513	125,747	1,845
<i>Water Act</i> 1940, No. 4740	81,578	12,000
		(Approx.)

The amount of £81,578 written off under the provisions of the Water Act No. 4740, represents the remission of interest accrued on arrears to 30th June, 1940. Arrears totalling £437,635, of the rates and charges (excluding interest remitted and excused) subject to the provisions of the Water Act, No. 4740, are payable by instalments over periods ranging up to 20 years. The arrears so consolidated are not subject to interest conditionally upon the instalment being paid on the due date each year.

The loss for the year 1940–41 on Crown Lands which have not been occupied or have been vacated by the lessees leaving no assets amounted to £5,092.

The arrears of rates and charges were reduced from £662,471 as at 1st July, 1940, to £617,059 as at 30th June, 1941.

EXPENDITURE.

The expenditure for the year on maintenance, water distribution, and management, and the comparative figures for 1939–40 are set out hereunder:—

	1940–41. £	1939–40. £
From Annual Vote Appropriation	489,258	478,403
From Unemployment Relief (Taxation) Funds ..	1,984	8,250
	<hr/> 491,242	<hr/> 486,653

An amount of £695,675 was expended during the year on capital construction works, reconstruction, improvements and enlargement of works, and river improvements from funds provided as under:—

	£
Ordinary Loan Funds (Acts Nos. 4655, 4771, and including Treasurer's Advance £56,300)	471,369
Unemployment Relief Loan Funds (Act 4097)	217,293
Unemployment Relief (Taxation) Fund	848
Commonwealth Defence Works (U.R.) Account (Commission's Works) ..	7,013
	<hr/> 696,523

The total expenditure on works carried out or supervised by the Commission for the year 1940-1941 from all sources was as set out hereunder:—

	£	£	£
Vote funds	489,258		
Unemployment Relief (Taxation) Funds	1,984		
		491,242	
Ordinary Loan Funds—			
Commission Works	409,713		
Waterworks Trusts and Local Bodies	61,656		
		471,369	
Unemployment Relief Loan Funds (Act 4097)		217,293	
Unemployment Relief (Taxation) Fund		848	
Commonwealth Defence Works (U.R.) Account (Commission Works)		7,013	
Drainage Trust Funds		11	
Water Supply Works Depreciation Fund		7,605	
Special Appropriation		3,443	
			1,198,824
Total Expenditure on construction, operation, maintenance and administration of Commission Works and Water Supply Works supervised by Commission			1,198,824

Expenditure on war precautions under the provisions of the *National Security Act 1939*, No. 4645, amounted to £1,495. This expenditure is additional to that recorded above, and although charged by the Treasury to the annual cost of operations in respect to country water supply works, the expenditure has not been debited direct to water-users.

In addition, water supply and sewerage works have been constructed at the request of the military authorities for a number of military and internment camps. The expenditure (£172,004) incurred during the year on this work was met from the Commonwealth Funds, including £29,743 from Commonwealth Defence Works (U.R.) account.

CAPITAL LIABILITY.

The Capital Loan Liability of the State for Works of Country Water Supply at 30th June, 1941, was £27,619,239, of which amount £21,575,755 is charged to the "Capital Expenditure borne by the State Account," £1,986,736 is charged to Waterworks Trusts and Local Government Bodies, £61,147 is debited to the Plant and Machinery Account, and the balance, £3,995,601, represents the Capital Liability after adjustment, debited to Districts and Divisions directly under the control of the Commission. These figures are exclusive of an equity of £1,843,309 in the National Debt Sinking Fund.

The average rate per cent. of Interest for 1940-41 debited by the Treasury on the Capital Liability for works of country Water Supply Works was £3 18s. 7d.

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

	£	s.	d.
Interest	1,108,154	15	10
Exchange on overseas interest	115,998	17	6
	1,224,153	13	4

The amount paid by the Treasury in respect of exchange on overseas interest has not been debited direct to water-users. The following statement shows the approximate Interest payment for 1940-41 in relation to the Capital Liability.

Capital Debited to—	Capital Liability as at 30th June, 1941.	Interest Liability (excluding Exchange).	Interest Paid by Water Users.
	£	£ s. d.	£ s. d.
Districts and Divisions under the direct control of the Commission	3,995,601	155,490 5 8	142,515 5 7*
Waterworks Trusts and Local Governing Bodies	1,986,736	86,320 3 9	84,878 13 9
Plant and Machinery Account	61,147	1,935 5 8	1,935 5 8
Capital Expenditure Borne by the State Account	21,575,755	864,409 0 9	..
	27,619,239	1,108,154 15 10	229,329 5 0

* Exclusive of arrears of interest paid.

DEPRECIATION.

As at 1st July, 1940, a balance of £74,990 18s. 2d. at credit of the Depreciation Account in the Commission's books had not been transferred to the Water Supply Works Depreciation Fund. Of this balance a sum of £50,000 was transferred to the Fund during the year by the Treasury. The expenditure from the Fund during the year 1940-41 was £7,604 15s. 3d.

The amount standing at credit of the Depreciation Account in the Commission's books as at 30th June, 1941, was £126,456 12s. 0d. The amount at credit of the Water Supply Works Depreciation Fund in the Treasury as at the same date was £55,089 5s. 10d. The balance, therefore, in the Depreciation Account in the Commission's books not yet transferred to the Fund by the Treasury is £71,367 6s. 2d.

An amount of £44,352 11s. 8d. was raised by rates and charges and paid to Consolidated Revenue for the purposes of depreciation during the year. In addition, a sum of £104 13s. 5d. was paid direct to the credit of the Fund, being amounts contributed by landholders and other bodies as capitalized maintenance of water supply works constructed for their respective benefits.

There is sufficient money in the Fund to meet estimated commitments for 1941-42. However, it is desirable that the Fund be built up to ensure that moneys will be available to meet large expenditure in replacements which must be effected in the near future. Regular transfers to the Fund would avoid fluctuations in the Commission's net revenue each year.

Details of the Water Supply Works Depreciation Account are set out on pages 67-69. of this report.

STORES SUSPENSE ACCOUNT AND PLANT AND MACHINERY ACCOUNT.

	£	s.	d.
The value of Stores and Equipment held in the Stores Suspense Account as at 30th June, 1941, was	88,107	19	7
The value of movable Plant and Machinery held in the Plant and Machinery Account as at 30th June, 1941, was	61,147	4	3

Plant and Machinery controlled in the Plant and Machinery Account is hired to the particular works on which any of the plant is 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 hire charge account is in credit to the extent of £2,301 5s. 9d.

The amount of the hire charge representing the 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 £9,971 16s. 7d. as at 30th June, 1941.

REVENUE EXPENDITURE CHARGEABLE TO THE STATE ACCOUNT.

The Commission, by direction of the Governor in Council, has throughout 1940-41, continued the water supply to 14 Waterworks Districts, 2 Irrigation Districts, 21 Urban Districts, and 3 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 amounts so transferred have been 1938-39 £57,185, 1939-40 £62,826, 1940-41 £76,954. In 23 of these Districts an aggregate cash surplus of revenue over expenditure of £2,554 was obtained after meeting interest charges (£55) in respect to cost of Capital works debited to Districts subsequent to the Capital Adjustment. Of this surplus an amount of £1,106 was transferred to Depreciation Account and £3 to Redemption. The figures quoted are based on the cash transactions in respect of these Districts and exclude debits and credits for district water.

The above figures are exclusive also 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 1940-41.

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 Act* 1937, No. 4513, the Capital Liability of Country Water Supply Works was adjusted by debiting to water-users such amounts of Capital Liability in respect of which interest and redemption could be paid on the basis of existing rates and charges after providing for operating costs, management, and depreciation. The balance of the Capital Liability, including the Capital cost of Free Headworks and other National Works, was transferred to the "Capital borne by the State Account."

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

"PAYING" DISTRICTS.

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

Irrigation and Water Supply Districts (28).

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

Waterworks Districts (15).

Axe Creek	Hindmarsh	Normanville	Western Wimmera
Bellarine	Long Lake	Otway	Wimmera United
Peninsula	Mornington	Upper Wimmera	Wycheproof
Birchip	Peninsula	United	
Harcourt	Newstead	Werribee	

Urban Divisions and Districts (65).

Bacchus Marsh	Chillingollah	Longwarry	Queenscliff and
Cohuna	Cobden	Manangatang	Point Lonsdale
Dingee	Coliban	Marnoo	Rainbow
Leitchville	Cranbourne	Marong	Rupanyup
Lockington	Crib Point	Merbein	Sea Lake
Red Cliffs	Culgoa	Minyip	Somerville
Stanhope	Dandenong	Mornington	South Frankston
Antwerp	Dimboola	Mount Martha	Spring Vale
Barwon Heads and	Dooen	Natimuk	Terang
Ocean Grove	Frankston	Newstead	Torquay
Berriwillock	Garfield	North Wonthaggi	Watchem
Berwick	Hastings	Nullawil	Wonthaggi
Birchip	Hicksborough	Nyah	Woomelang
Brim	Hopetoun	Ouyen	Woorinen
Bunyip	Jeparit	Pakenham	Wycheproof
Camperdown	Lalbert	Pyramid Hill	Yaapect
Carrum	Lascelles	Quambatook	

The surplus Revenue over Expenditure in respect of these Districts after providing for interest, redemption, and depreciation was £ 29,097

“NON-PAYING” DISTRICTS.

There are, however, certain Districts and Divisions where the revenue from existing rates and charges is insufficient to meet operating costs. The works in such centres may be maintained by direction of Parliament or the Governor in Council, in which case the whole of the Capital Liability is borne by the State, and the loss resulting from the 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.”

The Districts from which estimated Revenue was insufficient to meet operating costs and to which supplies of water were continued by direction of the Governor in Council are:—

Irrigation and Water Supply Districts.

* Fish Point Tresco (2).

Waterworks Districts (14).

Carwarp	Kerang North-	Sea Lake	*Upper Western
Carwarp Central	West Lakes	Tyntynder	Wimmera
Coreena	Millewa	Tyrrell	*Walpeup West
Karkarooc	Millewa Central	Tyrrell West	*Yelta

Urban Divisions and Districts (24).

*Corop	*Carwarp	*Meringur	*Speed
*Heyfield	Chinkapook	*Nandaly	*Tempy
Murrabit	*Drysdale	*Nyah West	Ultima
*Anglesea	Jung Jung	*Patchewollock	*Waitchie
*Beulah	*Koordrook	*Piangil	*Walpeup
*Bittern	Lake Boga	*Portarlington	*Werrimull

* In districts marked “*” the operations for 1940–41 resulted in an aggregate surplus of £2,554. Of this amount a sum of £1,109 has been applied to depreciation account and redemption.

The amount debited to “The Revenue Expenditure chargeable to the State Account” in respect of districts maintained during 1940–41 by direction of the Governor in Council, in which the Revenue was insufficient to meet operating costs, was £ 76,954

NATIONAL SERVICES.

Included in the heading of “National Services” are such items as River Gaugings and Inspections, Contribution to the River Murray Commission for the Maintenance of River Murray Works, Supervision of Waterworks Trusts and Sewerage Authorities, Administration of Unemployment Relief Works, &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 1940–41 was	£ 72,700
From this amount may be deducted miscellaneous revenue collected in respect to Diversion permits, rents, &c.	18,422
Net Cost of National Services 1940–41	54,278

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

NET COST TO STATE.

It is indicated on page 21 of the Auditor-General’s Report for 1940–41 that “the net cost to the State for the year in connexion with country water supply which has been met from general revenue was £1,079,593.” This figure includes the cost of the services above referred to, also a sum of £1,495 expended on war precautions. The equivalent figure stated annually is often incorrectly quoted as a “loss” in respect of country water supply, whereas the only amount which, on the existing basis of rates and charges, might be correctly regarded as a cash “loss” is the amount of £76,954 mentioned above, being the deficiency on Districts in which the revenue was insufficient to meet expenses and to which, as already intimated, the supply of water was continued by direction of the Governor in Council.

As against this, the surplus of receipts over operating costs in respect of other districts amounted to £193,301. Of this amount a sum of £149,854 was applied to interest and redemption. Arrears of interest amounted to £12,905, therefore, the net surplus for the year over all these Districts was £30,542. After adjusting payments to the Depreciation Fund, the net loss for the year was £44,825 and not £1,079,593, the latter amount being the total contribution by the State towards the cost of water supply, flood protection, drainage, and other services—the greater part of this amount representing interest payments on loan liability in respect of “nationalized” headworks and main supply works.

A summary of the total cost (£1,079,593) to the State for the year is set out hereunder—
a more detailed analysis is set out on page 50 of this Report. £

Total Cost to the State	£ ..	£ ..	1,079,593
Loss on “Non-Paying” Districts .. ..	..	76,954	
Net Cost of “National Services” .. ..	..	54,278	
Interest and Exchange on Headworks, and Capital borne by State	981,849		
Less Interest on Lands sold, &c.	1,359		
		<u>980,490</u>	
		1,111,722	
Deduct amount paid to Revenue in respect of Depreciation (£44,248) and Redemption (£7,339)		51,587	
		<u>1,060,135</u>	
Deduct Surplus on “Paying Districts” ..	29,097		
Revenue in excess of operating costs in other (Order in Council) Districts	1,445		
		<u>30,542</u>	
		1,029,593	
Amount transferred to Depreciation Fund ..		50,000	
Net Total Cost to State .. .. .	..	..	1,079,593

The net cost to the State of £1,079,593 represents an increase of £69,202 over the comparable figure for the previous year. This is in part due to increased expenditure on maintenance and in part to interest charges on expenditure incurred in construction of new storages and other State works.

Included in the “Capital Expenditure borne by the State Account” are amounts representing expenditure (temporarily charged to that account) on works at present under construction and in respect of which the Capital Liability has not been allocated to Districts. As development proceeds in Districts already constituted, a commensurate amount of the Capital Liability is transferred from the State Account to the District Accounts—a sum of £218,879 was so transferred during the financial year 1940–41.

Large sums are involved in major water supply projects at present under construction; these are national works and the interest charges will not be fully borne by the water-users. Further, on the present basis of rates and charges it would not be possible, notwithstanding increasing development, for water-users to meet the full costs of interest, redemption, and operation.

It must be expected, therefore, that the cost to the State will continue for some time to increase each year. However, the indirect return to the State which results from the extensive works administered by the Commission must be taken into consideration. The progress of the State is inextricably bound up with the development of its water supply resources, and the cost to the community in respect of the 1940–41 financial year, which amounts to 11s. 3d. per head of the whole population, should not be considered a high contribution to a State enterprise upon the activities of which the prosperity of its citizens so vitally depends.

RESULT OF OPERATION IN DISTRICTS

Disbursements, 1940-41.

	Operating Expenses.	Interest on Capital Allotted.	Depreciation Paid by Districts.	Redemption Paid by Districts.	Total Disbursements.
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
Coliban Works	21,610 17 1	15,982 5 4	10,372 0 2	38 16 5	48,003 19 0
Irrigation Districts	181,222 19 11	70,567 7 8	13,581 14 1	4,223 11 0	269,595 12 8
Irrigation Urban Divisions	3,286 11 11	1,642 14 2	675 5 3	116 7 5	5,720 18 9
Waterworks Districts	177,026 6 9	34,069 18 10	2,955 9 1	374 11 2	214,426 5 10
Waterworks Urban Districts	31,165 17 5	32,777 4 6	12,933 6 1	2,184 13 0	79,061 1 0
Flood Protection Districts	5,878 13 9	450 15 2	.....	400 19 2	6,730 8 1
Drainage Districts	13,295 3 3	.....	3,730 3 7	.....	17,025 6 10
Expenditure not chargeable to Districts—	433,486 10 1	155,490 5 8	44,247 18 3	7,338 18 2	640,563 12 2
Free Headworks	9,857 7 2	.....	.....	.....	9,857 7 2
Miscellaneous	47,898 6 10	.....	.....	.....	47,898 6 10
	491,242 4 1	155,490 5 8	44,247 18 3	7,338 18 2	698,319 6 2

SUMMARY OF OPERATIONS FOR YEAR 1940-41.

REVENUE, 1940-41—	£ s. d.	£ s. d.	EXPENDITURE, 1940-41—	£ s. d.	£ s. d.
From Districts and other activities under the control of the Commission	611,234 16 9		From—		
Less transfers to—			Annual Vote	485,815 5 6	
State Loans Re-payment Fund	392 6 9		Special Appropriation	3,442 16 8	
and Water Supply Works Depreciation Fund	50,000 0 0			489,258 2 2	
	50,392 6 9		Unemployment Relief Fund (Public Account)	1,984 1 11	
		560,842 10 0	Surplus carried down .....	.....	491,242 4 1
Amount expended from Unemployment Relief Fund on maintenance		1,984 1 11			71,795 0 0
Recoup Salaries of Officers on Loan to Commonwealth		210 12 2			
		563,037 4 1			563,037 4 1
Surplus brought down		71,795 0 0	Amount debited by Treasury for Pensions		13,912 9 11
Interest on Loans paid to Treasury by Waterworks Trust and Local Governing Bodies		84,878 13 9	Expended under Provisions of National Security (Emergency Powers) Act No. 4645		1,494 15 9
Interest on Sale of Land	1,353 1 4		Balance available towards payment of Interest and Exchange, Depreciation and Redemption carried down		144,560 17 4
Interest Plant and Machinery Account	1,935 5 8				
Interest Settlers Crossings	6 2 3				
		3,294 9 3			
		159,968 3 0			159,968 3 0
Balance available towards Interest and Exchange, Depreciation, and Redemption		144,560 17 4	Interest on Total Loan Liability		1,108,154 15 10
Balance being net amount borne by the State not chargeable to water users		1,079,592 16 0	Exchange on Interest Payments		115,998 17 6
		1,224,153 13 4			1,224,153 13 4

ANALYSIS OF EXPENDITURE BORNE BY THE STATE, 1940-41.

Services of a National Character—	£ s. d.	£ s. d.
Maintenance River Murray Commission Works—Contribution by the State of Victoria in accordance with the provisions of the River Murray Waters Acts	11,150 0 0	
Maintenance and Management of Free Headworks	9,394 4 9	
Administration and General Expenditure in respect to Expenditure from Unemployment Relief Loan Funds	22,997 11 3	
Expenditure under provisions of National Security (Emergency Powers) Act No. 4645	1,494 15 9	
Superannuation	13,912 9 11	
River Gaugings and Investigations and Supervision of Waterworks Trusts and Sewerage Authorities, &c.	13,750 15 7	
	72,699 17 3	
Less Revenue from Headworks, Diversions, Permits, &c.	18,422 1 2	
		54,277 16 1
Exchange on Overseas Interest Payments	115,998 17 6	
Interest on Capital Expenditure on Free Headworks, and other Capital Expenditure Borne by the State, £864,409 0s. 9d., and arrears of Interest debited to Waterworks Trusts and Local Governing Bodies, £1,441 10s.	865,850 10 9	
	981,849 8 3	
Less Interest on Lands Sold, &c.	1,359 3 7	
		980,490 4 8
		1,034,768 0 9
Commission Districts—		
Districts supplied by direction of Governor in Council, Act No. 4513, and showing excess Expenditure over Revenue (Inclusive of Interest £69 17s. 4d.)	76,953 13 6	
Deduct Surpluses from operation of other Districts:—		
Commission Districts the Capital Liability in respect of each of which has been adjusted under Act No. 4513—		
Surplus	184,461 19 5	
Less Current Interest—		
Paid	142,459 17 1	
Forward	12,905 2 9	
	155,364 19 10	
	29,096 19 7	
Districts supplied by direction of Governor in Council but which show excess Revenue over Operating Costs, after allowing for Depreciation, £1,106 9s. 9d.; and Redemption, £2 10s. 7d.		
Surplus	1,500 10 9	
Less Current Interest Paid	55 8 6	
	1,445 2 3	
	30,542 1 10	
Amounts paid to Revenue in respect of Depreciation, £44,247 18s. 3d.; and Redemption, £7,338 18s. 2d.	51,586 16 5	
	82,128 18 3	
Less Amount transferred to Water Supply Works Depreciation Fund in Treasury on account of moneys paid to Revenue in respect of Depreciation in prior years	50,000 0 0	
	32,128 18 3	
		44,824 15 3
Total Expenditure borne by the State		1,079,592 16 0

UNDER CONTROL OF COMMISSION.

Receipts, 1940-41.

	Total Receipts.	Less Transfers to— (a) Depreciation Fund. (b) State Loans Repayment Fund.	Total Collections.	Excess.	
				Receipts over Disbursements.	Disbursements over Receipts.
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
Coliban Works	47,496 1 7	(a) 8,284 0 0	39,212 1 7	.. ..	507 17 5
Irrigation Districts	287,048 11 0	(a) 15,510 0 0	271,538 11 0	17,452 18 4	..
Irrigation Urban Divisions	7,425 11 10	(a) 785 0 0	6,640 11 10	1,704 13 1	..
Waterworks Districts	127,447 14 0	(a) 9,585 0 0	117,862 14 0	.. ..	86,978 11 10
Waterworks Urban Districts	94,037 4 3	(a) 14,310 0 0	79,727 4 3	14,976 3 3	..
Flood Protection Districts	9,136 11 3	(b) 392 6 9	8,744 4 6	2,406 3 2	..
Drainage Districts	20,431 13 10	(a) 1,526 0 0	18,905 13 10	3,406 7 0	..
	593,023 7 9	(a) 50,000 0 0 (b) 392 6 9	542,631 1 0	39,946 4 10	87,486 9 3
Free Headworks	3,588 5 1	..	3,588 5 1	..	..
Miscellaneous	14,623 3 11	..	14,623 3 11	..	..
	611,234 11 9	(a) 50,000 0 0 (b) 392 6 9	560,842 10 0	39,946 4 10	87,486 9 3

Capital Expenditure 1940-41—

Expenditure during the year on Capital Works of Water Supply—	£ s. d.
Ordinary Loan Funds	415,069 11 10
State Unemployment Relief Funds	218,141 3 11
Treasurer's Advance	56,299 15 1
Total Capital Expenditure from Ordinary Sources	689,510 10 10
Additional Expenditure on Capital Works from Commonwealth Defence Works Unemployment Relief Funds	7,013 9 9
Total Capital Expenditure during year (Details pages 71-73)	696,524 0 7

Loan Capital Liability—

Net Loan Liability of State for Works of Country Water Supply at 30th June, 1941	26,181,816 12 9
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Represented by—

Works at Debit of Authorities—	£ s. d.
Commission Districts	3,995,600 11 9
Water Supply Plant and Machinery Account	61,147 4 3
Waterworks Trusts and Local Governing Bodies	1,986,736 1 3
	6,043,483 17 3

Capital Expenditure Borne by the State—

Free Headworks	1,227,375 2 11
Capital Works and Charges not apportionable to Districts	1,307,745 4 6
Headworks and Distributary Works	17,797,272 11 2
Waterworks Trusts and Local Governing Bodies	1,101,005 10 9
Free Grants to Local Authorities in early years	142,356 4 11
	21,575,754 14 3

Net Loan Capital Liability of Commission Districts, Divisions and

Works under control of the Commission	27,619,238 11 6
Less Amount from National Debt Sinking Fund (page 81)	1,559,569 14 2

26,059,668 17 4

Add Cash on Hand at Treasury	122,147 15 5
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Net Liability Country Water Supply Capital Account in Treasury	26,181,816 12 9
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Interest and Exchange—

The Total Interest due on the Loan Liability for 1940-41 is	1,108,154 15 10
To which is to be added Exchange payable on Overseas Interest	115,998 17 6
	1,224,153 13 4

Interest Debitable to—

Works at Debit of Authorities—	
Commission Districts	155,490 5 8
Trusts	86,320 3 9
Water Supply Plant and Machinery Account	1,935 5 8
	243,745 15 1

Capital Expenditure Borne by the State—

Free Headworks	49,173 8 8
Capital Works and Charges not apportionable to Districts	52,393 4 10
Headworks and Distributary Works not Debited to Districts	713,028 7 1
Free Grants to Local Authorities and Amounts Written off over 42 years ago	49,814 0 2
	864,409 0 9

1,108,154 15 10

Exchange not apportioned	115,998 17 6
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1,224,153 13 4

RECEIPTS AND DISBURSEMENTS.

STATEMENT of Moneys Received and Disbursed during the Year Ended 30th June, 1941.

Works.	Receipts (Exclusive of Credits for Urban Water.)			Disbursements (Exclusive of Interest, Redemption and Depreciation Charges, and Charges for Rural Water.)		
	Total.	Paid to— (a) Depreciation Fund. (b) State Loans Repayment Fund.	Paid to Consolidated Revenue.	From Annual Votes and Special Appropriation.	From Unemployment Relief (Taxation) Fund.	Total.
District Works	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
Coliban Works	47,496 1 7	(a) 8,284 0 0	39,212 1 7	21,610 17 1	..	21,610 17 1
Free Headworks—						
Broken River Works ..	..	..	..	108 13 7	..	108 13 7
Goulburn River Works ..	719 6 11	..	719 6 11	5,656 3 6	463 2 5	6,119 5 11
Kow Swamp Works ..	1,546 1 0	..	1,546 1 0	2,734 3 3	..	2,734 3 3
Lake Lonsdale Reservoir ..	220 12 2	..	220 12 2	79 9 7	..	79 9 7
Loddon River Works ..	307 16 9	..	307 16 9	305 11 11	..	305 11 11
North-West Lakes Works ..	794 8 3	..	794 8 3	510 2 11	..	510 2 11
Irrigation Districts ..	287,048 11 0	(a) 15,510 0 0	271,538 11 0	180,349 7 7	873 12 4	181,222 19 11
Irrigation Urban Divisions ..	7,425 11 10	(a) 785 0 0	6,640 11 10	3,286 11 11	..	3,286 11 11
Waterworks Districts ..	127,447 14 0	(a) 9,585 0 0	117,862 14 0	176,378 19 7	647 7 2	177,026 6 9
Waterworks Urban Districts ..	94,037 4 3	(a) 14,310 0 0	79,727 4 3	31,165 17 5	..	31,165 17 5
Flood Protection Districts ..	9,136 11 3	(b) 392 6 9	8,744 4 6	5,878 13 9	..	5,878 13 9
Drainage Districts ..	20,431 13 10	(a) 1,526 0 0	18,905 13 10	13,295 3 3	..	13,295 3 3
Miscellaneous Expenditure (not directly chargeable to Districts)—						
Loch Garry (proportion of maintenance borne by State) ..	..	..	..	125 9 0	..	125 9 0
Irrigation Branch ..	..	..	..	1,687 10 1	..	1,687 10 1
Waterworks Trusts and Sewerage Authorities ..	..	..	..	2,221 1 11	..	2,221 1 11
Rivers and Reclamation Division—Surveys, Investigations, &c. ..	..	..	..	6,121 6 7	..	6,121 6 7
River Murray Commission—State Contribution towards River Murray Works ..	..	..	..	11,150 0 0	..	11,150 0 0
Administration of Unemployment Relief Loan Works, &c. ..	..	..	..	22,997 11 3	..	22,997 11 3
Special Appropriation, Act No. 3801, sections 19, 20, Administration ..	..	..	..	3,442 16 8	..	3,442 16 8
Eppalock Reservoir ..	..	..	..	152 11 4	..	152 11 4
Miscellaneous Collections—(Diversion Permits, &c.) ..	14,623 3 11	..	14,623 3 11	..	..	..
Totals	611,234 16 9	(a) 50,000 0 0 (b) 392 6 9	560,842 10 0	489,258 2 2*	1,984 1 11	491,242 4 1†

	£ s. d.
Net Receipts paid to Consolidated Revenue	560,842 10 0
Total Disbursements from Votes and Special Appropriation	489,258 2 2
Surplus available towards meeting Interest and other Treasury Charges ..	71,584 7 10

* Included in the above figures is an amount of £22,997 11s. 3d. being Administration and General Expenditure Charges, in connexion with Unemployment Relief Loan Works, not directly chargeable to water users.

In addition, the expenditure on services of a national character, not directly chargeable to water users was £30,706 15s. 3d. This sum is comprised of:—Administration Charges under Special Appropriation (£3,442 16s. 8d.); Administration of Waterworks Trusts and Sewerage Authorities (£2,221 1s. 11d.); Maintenance of Free Headworks (£5,805 19s. 8d.); Proportion of Loch Garry Flood Protection District borne by State under Agreement (£125 9s.); Contribution by State toward maintenance River Murray Works (£11,150); Other Expenditure (£7,961 8s.).

† Expenditure amounting to £1,494 15s. 9d. under the provisions of the National Security (Emergency Powers) Act, No. 4645, has not been included in the above statement.

COLIBAN SYSTEM.

STATEMENT of Moneys received and disbursed during the year ended 30th June, 1941, and of Interest charged at the rate of 3·946 per cent. on Capital Debts; and also of Depreciation and Redemption charged as at 30th June, 1941.

District.	Receipts.	Disbursements 1940-41.					Excess Disbursements over Receipts.	Excess Receipts. Over Disbursements.
		Operating Costs.	Depreciation Charges. (See pages 67-68.)	Redemption.	Interest.	Total.		
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
1. Coliban	45,590 13 2	20,064 16 1	10,321 6 5	..	15,204 10 8	45,590 13 2	..	..
2. Axe Creek	156 1 8	214 13 11	..	..	123 9 5	338 3 4	182 1 8	..
3. Harcourt	1,592 9 1	1,256 14 2	13 0 0	38 16 5	609 14 3	1,918 4 10	325 15 9	..
4. Marong	156 17 8	74 12 11	37 13 9	..	44 11 0	156 17 8	..	..
Totals	47,496 1 7	21,610 17 1	10,372 0 2	38 16 5	15,982 5 4	48,003 19 0	507 17 5	..

DISTRICTS HELD IN TRUST BY THE COMMISSION.

STATEMENT of Receipts and Disbursements for the year ended 31st December, 1940.

Receipts.

Name of Trust.	Bank Balance at 1st January, 1940.	1940.				Grand Total for Year 1940.
		Rates.	Water Sales.	Interest and Miscellaneous.	Total.	
Carrum	Cr. £ 84	£ 2,429	£ ..	£ 407	£ 2,836	£ 2,920
Loddon United	Cr. 683	1,788	50	43	1,881	2,564
Loddon United (Mitiamo Division) .. .. .	.. .. .	219	..	721	940	940
Totals	Cr. 767	4,436	50	1,171	5,657	6,424
*Carrum (1.1.1941-30.6.1941)	Cr. 479	651	..	117	768	1,247
Totals	1,246	5,087	50	1,288	6,425	7,671

Disbursements.

Name of Trust.	Capital Debit, 31st December, 1940.	1940.					Grand Total for Year 1940.	Bank Balance Carried Forward 1st January, 1941.
		Maintenance and Water Distribution.	Management.	Total.	Interest.	(A) Depreciation; (B) Redemption.		
Carrum	£ 24,937	£ 483	£ 157	£ 640	£ 1,801	£ ..	£ 2,441	Cr. £ 479
Loddon United	476	1,622	94	1,716	35	(B) 476	2,227	Cr. 337
Loddon United (Mitiamo Division)	4,642	670	14	684	198	{ (A) 28 (B) 30 }	940	..
Totals	30,055	2,775	265	3,040	2,034	{ (A) 28 (B) 506 }	5,608	Cr. 816
*Carrum (1.1.1941-30.6.1941)	Capital Debit at 30th June, 1941. 24,576	280	76	356	530	(B) 361	1,247	..
Totals .. .. .	..	3,055	341	3,396	2,564	{ (A) 28 (B) 867 }	6,855	Cr. 816

* Carrum Waterworks Trust abolished at 30th June, 1941 (Act No. 4761). Carrum Drainage District from 1st July, 1941.

FLOOD PROTECTION DISTRICTS.

STATEMENT of Moneys received and disbursed from 1st July, 1920, to 30th June, 1941, and of Interest charged at the rate of 3·946 per cent. on Capital Debts, and also of Redemption charged as at 30th June, 1941.

RECEIPTS.

District.	1st July, 1920, to 30th June, 1940.	1940-41.					Grand Total at 30th June, 1941.
		Water Act 1940, No. 4740, Section 3.		Charge.	Interest and Miscellaneous.	Total.	
		Instalments of Consolidated Arrears.	Interest.				
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
1. Cardinia	31,134 17 9	410 13 5	0 3 4	2,521 0 5	14 15 9	2,946 12 11	34,081 10 8
2. Kanyapella	4,164 16 3	39 4 7	.. .. .	176 16 4	0 6 5	216 7 4	4,381 3 7
3. Kooweerup Lower	67,244 19 4	621 8 8	1 14 7	4,247 10 6	34 15 1	4,905 8 10	72,150 8 2
4. Loch Garry	12,687 6 4	433 4 1	5 12 3	629 5 10	.. .. .	1,068 2 2	13,755 8 6
Totals	115,231 19 8	1,504 10 9	7 10 2	7,574 13 1	49 17 3	9,136 11 3	124,368 10 11

DISBURSEMENTS AND INTEREST, AND REDEMPTION CHARGED.

District.	Disbursements.					Interest Charged.			Redemption paid to— (A) Redemption Funds; (B) Revenue.	Grand Total at 30th June, 1941.
	1st July, 1920, to 30th June, 1940.	1940-41.			Total at 30th June, 1941.	1st July, 1920, to 30th June, 1940.	1st July, 1940, to 30th June, 1941.	Total at 30th June, 1941.		
		Repairs and Maintenance.	Adminis- tration.	Total.						
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
1. Cardinia ..	10,459 19 7	1,657 13 9	628 4 8	2,285 18 5	12,745 18 0	26,429 1 2	26,429 1 2			39,174 19 2
2. Kanyapella ..	1,252 5 7	30 0 0	17 17 3	47 17 3	1,300 2 10	2,274 10 3	134 18 9	2,409 9 0	(B) 38 6 11	3,747 18 9
3. Kooweerup Lower	20,183 2 10	2,388 5 3	1,031 3 9	3,419 9 0	23,602 11 10	58,969 3 2		58,969 3 2		82,571 15 0
4. Loch Garry ..	1,745 13 1	85 14 5	39 14 8	125 9 1	1,871 2 2	6,630 9 3	315 16 5	6,946 5 8	(A) 4,678 19 5	13,406 7 3
Totals ..	33,641 1 1	4,161 13 5	1,717 0 4	5,878 13 9	39,519 14 10	94,303 3 10	450 15 2	94,753 19 0	(A) 4,678 19 5 (B) 38 6 11	138,991 0 2

IRRIGATION AND WATER SUPPLY DISTRICTS

STATEMENT of Moneys received from 1st May, 1906, to 30th June, 1941

RECEIPTS.

District.	1st May, 1906, to 30th June, 1940.		Water Act 1940, No. 4740, Section 3.		Rates.		Compulsory Irrigation Charges.		Water Sales.		Interest and Miscellaneous.		Total.		Urban Water.		Grand Total at 30th June, 1941.
	£ s. d.		Interest.		£ s. d.		£ s. d.		£ s. d.		£ s. d.		£ s. d.		£ s. d.		
1. Bacchus Marsh	142,213	16 7	65	0 1	735	2 4	3,688	1 4	196	4 1	78	14 2	4,763	2 6	545	0 0	147,521 19 1
2. Boort	116,336	10 3	310	13 10	832	12 7	3,473	6 3	2,593	17 11	110	19 4	7,321	18 3	..	..	123,658 8 6
3. Calivil	33,879	19 6	494	14 0	578	4 7	1,394	12 0	289	13 8	117	14 9	2,875	10 10	..	..	36,755 10 4
4. Campaspe	25,343	5 7	27	8 6	588	0 7	..	..	92	2 0	23	13 2	731	4 8	76	0 0	26,074 10 3
5. Cohuna	442,435	17 5	1,387	6 5	3,136	8 2	10,230	8 8	1,338	3 11	250	17 11	16,345	1 10	76	0 0	458,856 19 3
6. Deakin	140,314	11 2	730	17 5	2,729	13 9	..	..	670	9 4	73	2 4	4,205	12 9	3	0 0	144,523 3 11
7. Dingee	45,661	5 10	157	6 1	143	10 4	1,188	11 6	61	6 0	26	19 1	1,578	13 6	5	0 0	47,244 19 4
8. Dry Lake	984	5 9	..	..	..	..	..	..	..	..	57	10 6	57	10 6	..	..	1,041 16 3
9. Katandra	20,559	12 9	206	8 4	401	19 6	2,028	6 7	336	9 11	55	19 5	3,029	7 5	..	..	23,589 0 2
10. Kerang	189,593	17 5	567	4 7	1,263	3 7	3,836	18 6	3,519	7 0	86	0 0	9,274	1 5	84	0 0	198,867 18 10
11. Koondrook	254,589	17 1	1,199	4 0	1,905	4 10	5,952	1 1	1,802	11 11	144	5 7	11,004	8 7	..	..	265,678 5 8
12. Leitchville	38,062	0 6	506	18 8	756	1 5	1,185	16 9	443	13 0	39	12 7	2,932	17 1	..	..	40,994 17 7
13. Maffra-Sale	143,539	4 11	676	13 2	2,841	11 1	10,506	9 4	2,246	8 3	294	3 8	16,569	1 10	100	0 0	160,208 6 9
14. Merbein Valley	577,990	17 7	564	10 7	1,239	2 2	23,644	9 6	548	12 2	189	9 9	26,188	12 3	120	0 0	604,299 9 10
15. Murray Valley	461	5 6	18	0 0	708	10 1	965	17 2	1,062	19 4	231	0 4	2,986	6 11	..	..	3,447 12 5
16. Mystic Park	19,313	14 6	101	9 5	151	16 8	665	6 4	138	1 9	11	12 6	1,068	6 8	..	..	20,382 1 2
17. North Shepparton	47,904	14 5	308	16 6	2,260	19 10	3,603	6 6	421	9 8	102	19 10	6,698	11 9	..	..	54,603 6 2
18. Nyah	177,397	18 0	581	0 2	206	4 0	8,023	10 11	458	14 1	58	17 9	9,328	6 11	237	0 0	186,963 4 11
19. Red Cliffs	592,176	13 9	1,723	12 3	1,994	10 6	39,225	16 9	267	1 0	855	12 1	44,066	12 7	250	0 0	636,493 6 4
20. Rochester	461,438	13 0	1,987	8 9	3,036	5 10	15,690	8 6	2,722	16 0	569	5 9	24,009	9 2	15	0 0	485,463 2 2
21. Rodney	783,431	12 5	994	9 8	6,009	8 3	17,160	14 0	2,297	7 9	518	9 8	26,981	9 11	..	..	810,413 2 4
22. Shepparton	194,370	5 4	417	3 9	1,670	3 9	5,907	13 3	140	8 7	146	4 6	8,283	10 6	..	..	202,653 15 10
23. South Shepparton	35,979	8 7	76	5 0	699	15 0	1,308	5 1	191	11 11	29	3 11	2,305	5 2	..	..	38,284 13 9
24. Swan Hill	229,718	1 4	674	4 9	1,388	11 9	5,889	14 4	3,032	6 5	219	3 2	11,205	13 4	..	..	240,923 14 8
25. Third Lake	14,365	15 2	132	1 3	183	10 8	812	17 6	44	7 8	17	4 9	1,190	4 2	..	..	15,555 19 4
26. Tongala-Stanhope	304,249	16 5	2,711	4 6	1,982	12 4	11,156	14 7	1,476	11 8	374	10 4	17,707	17 0	20	0 0	321,977 13 5
27. Tragowel Plains	363,129	10 11	1,938	18 11	1,812	2 1	8,989	8 3	869	17 5	298	14 8	13,913	6 6	42	0 0	377,084 17 5
28. Werribee	149,098	8 2	501	7 2	946	18 3	4,704	10 6	520	14 1	145	15 11	6,819	10 1	..	..	155,917 18 3
Totals	5,544,540	19 10	19,060	7 9	40,202	3 11	191,233	5 2	27,783	6 6	5,127	17 5	283,441	14 1	1,497	0 0	5,829,479 13 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 Order in Council, dated 30th July, 1938, under the provisions of section 6, <i>Water Act 1937</i> , No. 4513.)																	
29. Fish Point	11,003	2 9	98	5 9	58	17 0	404	9 4	253	1 11	21	10 7	836	4 7	..	..	11,839 7 4
30. Tresco	34,704	12 0	9	0 6	378	2 6	..	..	2,296	7 3	87	2 1	2,770	12 4	..	..	37,475 4 4
Totals	45,707	14 9	107	6 3	436	19 6	404	9 4	2,549	9 2	108	12 8	3,606	16 11	..	..	49,314 11 8
Grand Totals	5,590,248	14 7	19,167	14 0	40,639	3 5	191,637	14 6	30,332	15 8	5,236	10 1	287,048	11 0	1,497	0 0	5,878,794 5 7

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 Order in Council, dated 30th July, 1938, under the provisions of section 6, *Water Act* 1937, No. 4,513.)

29. Fish Point	11,003	2 9	98	5 9	58	17 0	404	9 4	253	1 11	21	10 7	836	4 7	..	..	11,839 7 4
30. Tresco	34,704	12 0	9	0 6	378	2 6	..	..	2,296	7 3	87	2 1	2,770	12 4	..	..	37,475 4 4
Totals	45,707	14 9	107	6 3	436	19 6	404	9 4	2,549	9 2	108	12 8	3,606	16 11	..	..	49,314 11 8
Grand Totals	5,590,248	14 7	19,167	14 0	40,639	3 5	191,637	14 6	30,332	15 8	5,236	10 1	287,048	11 0	1,497	0 0	5,878,794 5 7

IRRIGATION AND WATER SUPPLY DISTRICTS.

STATEMENT of Moneys disbursed from 1st May, 1906, to 30th June, 1941, and of Interest charged at the rate of 3.946 per cent. on Capital Debts, and also of Depreciation and Redemption charged as at 30th June, 1941. (Free Headworks excluded.)

DISBURSEMENTS AND INTEREST, DEPRECIATION, AND REDEMPTION CHARGED.

District.	1st May, 1906, to 30th June, 1940.			Disbursements.						Interest Charged.				Depreciation Charges. (See page 67.)	Redemption Paid to— Funds.			Grand Total at 30th June, 1941.								
	1940-41.			Total.			Administration.			Water Distribution.			1st May, 1906, to 30th June, 1940.			1st July, 1940, to 30th June, 1941.			Total at 30th June, 1941.			(A) Redemption Funds. (B) Revenue.				
£.	s.	d.	£.	s.	d.	£.	s.	d.	£.	s.	d.	£.	s.	d.	£.	s.	d.	£.	s.	d.						
1. Bacchus Marsh	41,577	16	5	1,770	5	9	1,521	12	8	610	4	10	870	8	4	1,232	18	10	1,400	0	0	175,173 12 3				
2. Boort	59,425	15	4	1,521	12	8	1,521	12	8	829	7	0	870	8	4	1,232	18	10	1,400	0	0	124,118 17 2				
3. Calivil	15,371	3	7	610	4	10	610	4	10	358	5	8	870	8	4	1,232	18	10	85	19	2	57,799 10 9				
4. Campaspe	15,585	19	4	786	5	8	786	5	8	149	7	9	870	8	4	1,232	18	10	85	19	2	30,291 2 1				
5. Cobuna	231,062	16	11	2,812	8	11	2,812	8	11	1,490	10	2	1,490	10	2	1,490	10	2	290	6	10	478,674 18 4				
6. Deakin	52,747	13	9	829	7	0	829	7	0	592	2	7	1,490	10	2	1,490	10	2	290	6	10	148,799 14 5				
7. Dungee	23,293	0	6	315	5	3	315	5	3	203	11	8	415	3	10	203	11	8	0	3	3	53,444 9 11				
8. Dry Lake	1	0	0	0	0	0	0	0	0	330	9	2	490	8	7	330	9	2	0	3	3	1,041 18 5				
9. Katandra	11,492	1	3	546	7	1	546	7	1	1,069	7	11	1,213	2	7	1,069	7	11	0	3	3	54,647 3 6				
10. Kerang	101,902	15	9	2,411	0	1	2,411	0	1	1,069	7	11	1,213	2	7	1,069	7	11	2,700	0	0	204,361 11 7				
11. Koondrook	135,795	11	10	3,426	14	4	3,426	14	4	1,310	17	7	1,444	0	11	1,310	17	7	625	7	11	326,189 1 5				
12. Lettichville	11,200	5	11	409	3	8	409	3	8	270	18	4	1,444	0	11	270	18	4	625	7	11	153,058 16 1				
13. Marri-Sale	65,808	9	2	3,581	15	2	3,581	15	2	2,020	7	6	2,036	6	8	2,020	7	6	329	10	11	153,298 8 8				
14. Merbein	440,333	4	7	2,772	8	11	2,772	8	11	2,087	16	1	15,976	6	11	2,087	16	1	1,125	0	0	658,692 3 5				
15. Murray Valley	1,031	4	1	1,695	15	0	1,695	15	0	1,936	10	4	647	4	7	1,936	10	4	..	..	..	6,877 9 5	
16. Mystic Park	12,782	6	10	649	15	6	649	15	6	1,017	10	4	153	16	6	1,017	10	4	..	..	..	23,839 16 6	
17. North Shepparton	21,061	19	6	1,369	7	0	1,369	7	0	811	1	6	1,194	9	1	811	1	6	50	14	11	100,807 16 10				
18. Nyah	138,646	1	3	998	1	9	998	1	9	810	5	7	6,829	15	8	810	5	7	52	14	11	229,588 12 9				
19. Red Cliffs	378,535	11	0	27,088	15	8	27,088	15	8	3,298	1	8	27,088	15	8	3,298	1	8	..	..	..	676,174 11 11	
20. Rochester	305,845	10	3	5,631	13	10	5,631	13	10	2,265	13	11	5,001	15	0	2,265	13	11	..	..	..	544,446 4 0	
21. Rodney	78,814	9	6	7,301	1	3	7,301	1	3	3,548	13	4	4,886	16	4	3,548	13	4	1,946	3	10	896,595 0 10				
22. Shepparton	333,428	15	6	2,256	2	8	2,256	2	8	1,217	5	3	1,716	11	10	1,217	5	3	1,559	16	3	266,216 1 10				
23. South Shepparton	13,448	0	6	1,390	19	4	1,390	19	4	1,935	0	3	1,833	3	0	1,935	0	3	132	9	2	41,705 2 10				
24. Swan Hill	119,442	6	6	2,702	7	11	2,702	7	11	1,360	17	8	1,707	13	0	1,360	17	8	688	7	0	250,604 17 1				
25. Third Lake	5,089	12	11	836	7	9	836	7	9	124	7	11	1,254	5	8	124	7	11	47	1	8	18,517 2 3				
26. Tongala-Stanhope	147,505	11	12	3,380	17	4	3,380	17	4	2,322	16	4	3,380	17	4	2,322	16	4	1,457	15	5	421,584 14 4				
27. Tragowel Plains	154,014	6	11	2,537	6	11	2,537	6	11	1,741	14	0	2,537	6	11	1,741	14	0	876	11	7	434,705 4 0				
28. Werribee	31,459	17	0	1,283	17	1	1,283	17	1	807	12	6	988	11	3	807	12	6	596	7	10	180,264 17 1				
Totals	2,842,663	7	1	59,632	10	0	59,632	10	0	33,276	18	4	83,661	19	2	33,276	18	4	4,100	0	0	6,598,432 8 8				
The Districts set out hereunder are those whose works will not produce sufficient revenue to cover the expense of the maintenance and management thereof, and where water supplies are being continued by direction of the Governor in Council. The annual amount of loss resulting from the maintenance and management of these districts, has been transferred to the "Revenue Expenditure Chargeable to the State Account." (By authority of Order in Council dated 30th July, 1938, under the provisions of section 6, <i>Water Act</i> 1937, No. 4513).																										
29. Fish Point	7,589	13	1	368	16	0	368	16	0	214	2	6	85	8	5	214	2	6	..	..	..	14,992 11 6	
30. Tresco	51,009	11	1	554	9	0	554	9	0	802	13	1	3,226	3	5	802	13	1	..	..	..	106,249 14 10	
Totals	58,599	4	2	923	5	0	923	5	0	3,311	11	10	3,311	11	10	3,311	11	10	..	..	..	121,242 6 4	
Grand Totals	2,901,262	11	3	59,955	15	0	59,955	15	0	34,293	13	11	86,973	11	0	34,293	13	11	(A) 4,100 0 0 (B) 14,460 4 0	2 7	112,903 2 7	6,719,074 15 0				

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

29. Fish Point	7,589	13	1	368	16	0	7,589	13	1	6,734	11	6	14,992 11 6
30. Tresco	51,009	11	1	554	9	0	51,009	11	1	50,656	18	3	106,249 14 10
Totals	58,599	4	2	923	5	0	58,599	4	2	57,391	9	9	121,242 6 4
Grand Totals	2,901,262	11	3	59,955	15	0	2,901,262	11	3	112,903	2	7	6,719,674 15 0
											(A) 4,100 0 0		
											(B) 14,460 4 0		

STATEMENT of Moneys disbursed from 1st May, 1906, to 30th June, 1941; and of Interest charged at the rate of 3·946 per cent. on Capital Debits; and also Depreciation and Redemption charged as at 30th June, 1941. (Free Headworks excluded.)

[illegible]

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 Order in Council, dated 30th July, 1938, under the provisions of section 6, *Water Act* 1937 No. 4513.)

[illegible]

URRAN DISTRICTS.

STATEMENT of Moneys received from 1st May, 1906, to 30th June, 1941.

RECEIPTS.

District.	1st May, 1906, to 30th June, 1940.	1940-41.				Grand Total at 30th June, 1941.
		Rates.	Water Sales.	Interest and Miscellaneous.	Total.	
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
1. Antwerp	896 11 11	55 9 10	17 1 6	4 0 6	76 11 10	973 3 9
2. Barwon Heads and Ocean Grove	12,378 10 4	1,591 1 9	208 10 10	41 19 5	1,841 12 0	14,220 2 4
3. Berrinwillock	6,268 12 3	239 4 4	36 6 5	17 15 2	293 5 11	6,561 18 2
4. Berwick	11,701 16 10	759 11 11	334 1 5	47 11 7	1,141 4 11	12,843 1 9
5. Birehip	29,224 0 11	470 4 10	350 12 6	55 14 5	876 11 9	30,100 12 8
6. Brim	4,791 8 9	146 11 5	66 3 0	12 11 4	225 5 9	5,016 14 6
7. Bunyip	3,629 14 9	381 0 7	34 19 0	20 11 1	436 10 8	4,066 5 5
8. Camperdown	7,480 19 6	4,621 17 9	498 1 2	313 5 2	5,433 4 1	12,914 3 7
9. Carrum	119,980 9 10	7,345 17 4	996 4 5	460 1 11	8,802 3 8	128,782 13 6
10. Chillingollah	1,937 3 5	251 13 11	60 11 3	14 13 9	326 18 11	2,264 2 4
11. Cobden	1,591 1 9	1,365 3 10	31 13 8	83 8 2	1,480 5 8	3,071 7 5
12. Cranbourne	9,557 5 8	366 14 6	106 12 0	16 11 2	489 17 8	10,047 3 4
13. Crib Point	5,517 2 2	569 5 0	30 0 0	8 17 3	608 2 3	6,125 4 5
14. Culgoa	7,033 13 0	201 7 8	130 4 6	9 1 11	340 14 1	7,374 7 1
15. Dandenong	92,789 3 9	5,095 17 9	1,276 8 5	370 7 1	6,742 13 3	99,531 17 0
16. Dimboola	53,469 19 0	1,363 5 4	760 17 9	133 10 6	2,257 13 7	55,727 12 7
17. Doon	359 16 6	24 4 7	13 12 6	0 17 5	38 14 6	398 11 0
18. Dromana-Portsea .. .. .	.. .. .	660 16 8	.. .. .	.. .. .	660 16 8	660 16 8
19. Frankston	81,626 11 3	5,288 7 9	1,475 2 11	311 1 5	7,074 12 1	88,701 3 4
20. Garfield	2,959 10 5	244 9 2	45 15 9	13 13 11	303 18 10	3,263 9 3
21. Hastings	4,857 14 0	445 2 3	49 14 8	12 6 3	507 3 2	5,364 17 2
22. Hicksborough	849 4 6	95 13 0	.. .. .	11 18 6	107 11 6	956 16 0
23. Hopetoun	20,758 18 2	902 5 3	164 11 3	60 19 3	1,127 15 9	21,886 13 11
24. Jeparit	22,601 4 4	907 14 5	122 14 8	32 10 5	1,062 19 6	23,664 3 10
25. Lalbert	5,356 5 10	103 9 6	111 11 6	5 13 9	220 14 9	5,577 0 7
26. Lascelles	4,471 3 1	124 19 2	26 16 10	9 3 3	160 19 3	4,632 2 4
27. Longwarry	4,432 5 5	302 1 9	284 18 0	19 1 11	606 1 8	5,038 7 1
28. Manangatang	9,025 0 2	380 7 3	117 11 3	9 10 8	507 9 2	9,532 9 4
29. Marnoo	5,229 8 10	138 12 7	96 13 9	0 7 9	233 14 1	5,465 2 11
30. Merbein	26,280 4 7	1,376 8 4	232 10 8	116 19 4	1,725 18 4	28,006 2 11
31. Minyip	23,163 17 4	740 10 11	100 3 2	48 14 4	889 8 5	24,053 5 9
32. Mornington	53,448 4 4	3,133 4 5	750 16 6	139 11 3	4,023 12 2	57,471 16 6
33. Mount Martha	9,379 2 8	906 13 7	1,894 1 1	53 8 10	2,854 3 6	12,233 6 2
34. Natinuk	15,118 0 7	245 8 7	144 5 4	85 7 5	475 1 4	15,593 1 11
35. Newstead	3,736 10 0	521 15 0	46 6 0	23 15 1	591 16 1	4,328 6 1
36. North Wonthaggi	5,265 17 10	360 7 6	.. .. .	28 12 9	389 0 3	5,654 18 1
37. Nullawil	3,369 13 5	177 0 5	15 0 0	9 10 4	201 10 9	3,571 4 2
38. Nyah	2,057 10 9	121 8 0	10 19 9	1 12 3	134 0 0	2,191 10 9

	6,680 9 1	899 16 9	1 0 9	323 15 3	1,224 12 9	202 0 0	7,905 1 10	16,981 9 7	1,557 7 6	18,538 17 1	2,056 0 0	258 8 10	28,758 7 9
43. Queenscliff and Point Lonsdale ..	5,245 12 11	113 11 6	2 7 4	108 11 8	224 10 6	..	5,672 3 5	18,910 17 6	454 11 3	19,365 8 9	1,273 0 0	800 0 0	27,210 9 5
44. Rainbow ..	6,867 11 9	136 13 7	149 13 5	114 3 4	400 10 4	49 0 0	7,317 2 1	12,221 16 5	390 0 6	12,611 16 11	857 0 0	400 0 0	21,261 5 9
45. Rupanyup ..	10,874 2 6	113 15 6	188 7 4	134 19 0	437 1 10	125 0 0	11,436 4 4	10,447 3 3	306 9 11	10,753 12 6	1,724 0 0	77 12 3	23,991 9 1
46. Sea Lake ..	853 8 1	18 7 5	..	40 15 7	59 3 0	..	912 11 1	3,909 17 11	240 9 11	4,150 7 10	236 0 0	48 4 7	5,347 3 6
47. Somerville ..	4,619 10 7	216 6 3	55 14 8	181 13 8	453 14 7	..	5,073 5 2	18,596 18 5	1,464 1 6	20,060 19 11	1,748 0 0	285 8 0	27,167 13 1
48. South Frankston ..	9,393 17 10	600 7 11	41 12 7	541 17 0	1,183 17 6	..	10,577 15 4	30,966 6 3	4,149 5 8	35,115 11 11	3,460 0 0	535 10 2	49,688 17 5
49. Spring Vale ..	2,901 10 3	424 16 2	12 19 5	1,728 11 8	290 16 1	..	1,230 1 11	2,160 13 10	2,147 17 4	4,308 11 2	930 0 0	272 7 11	6,741 1 0
50. Terang ..	1,974 18 0	445 6 5	..	149 16 2	595 2 7	..	2,570 0 7	3,903 15 2	127 0 9	4,030 15 11	291 0 0	15 11 5	6,907 7 11
51. Torquay ..	2,916 5 11	65 1 11	14 16 10	46 19 7	126 18 4	42 0 0	3,085 5 3	5,485 7 2	109 9 8	5,594 16 10	381 0 0	20 17 7	9,081 18 8
52. Watchem ..	31,747 7 3	616 15 6	1,881 10 8	3,091 8 2	..	..	34,838 15 5	66,077 18 6	630 2 1	66,708 0 7	7,456 0 0	9,000 0 0	118,122 11 7
53. Wonthaggi ..	6,184 6 11	68 6 8	51 14 7	62 6 0	182 7 3	104 0 0	6,470 14 2	11,855 4 0	116 0 11	11,971 4 11	773 0 0	119 15 7	19,437 1 5
54. Woomelang ..	839 16 11	32 8 11	..	24 1 4	56 10 3	31 0 0	927 7 2	1,215 18 2	51 10 0	1,267 8 2	177 0 9	22 2 4	2,373 12 7
55. Woortnen ..	11,973 11 6	206 0 6	290 1 1	157 7 11	654 4 6	185 0 0	12,812 16 0	10,733 19 5	28 7 3	10,762 6 8	1,487 8 9	1 16 6	25,067 8 9
56. Wycheproof ..	518 6 11	104 5 8	26 15 5	25 4 8	156 5 9	220 0 0	694 12 8	945 19 0	0 4 11	945 16 11	294 8 1	..	1,934 17 8
57. Yapeet ..	312,538 8 10	12,506 17 3	5,240 10 4	9,000 13 10	26,748 6 5	3,118 0 0	342,404 15 3	703,283 5 4	32,721 16 2	736,005 1 6	68,854 4 7	(A) 14,054 0 0	1,167,017 7 0
Totals ..	..	..	..	..	..	..	..	..	..	..	..	..	..

58. Anglesea ..	1,393 3 9	270 7 3	0 9 3	95 10 2	366 6 8	100 0 0	1,759 10 5	2,243 19 8	4 12 2	2,248 11 10	924 0 0	0 14 5	4,232 16 8
59. Benliah ..	6,953 8 7	74 11 4	198 0 11	95 7 3	367 19 6	..	7,452 18 6	7,551 13 9	0 17 4	7,552 11 1	230 0 0	0 1 10	15,224 1 0
60. Bittern ..	461 5 2	32 4 6	..	42 7 10	174 7 4	16 0 0	352 12 6	1,254 16 5	..	1,254 16 5	136 0 0	..	2,438 12 8
61. Carwarp ..	342 7 1	6 16 2	..	7 9 3	14 5 5	..	352 12 6	1,254 16 5	..	1,254 16 5	136 0 0	..	2,438 12 8
62. Chinkapook ..	955 15 10	46 6 8	69 16 3	28 18 2	144 19 1	44 0 0	1,172 12 6	1,306 16 5	..	1,306 16 5	318 0 0	..	2,598 4 3
63. Drysdale ..	1,069 13 2	202 15 1	1 15 0	60 10 4	235 0 5	..	1,334 13 7	1,406 14 4	33 16 9	1,446 10 3	332 0 0	..	2,748 12 0
64. Jung Jung ..	2,200 18 5	129 14 11	30 1 3	30 7 9	190 3 11	15 0 0	2,406 6 4	1,632 19 7	0 1 5	1,643 11 0	202 0 0	..	3,110 12 0
65. Koondrook ..	6,939 18 5	30 19 2	279 9 9	100 18 9	411 7 8	79 0 0	7,430 6 1	4,538 6 5	2 6 5	4,540 11 11	362 10 6	..	12,353 3 4
66. Lake Boga ..	5,664 14 3	33 16 0	249 2 6	128 0 9	410 19 3	79 0 0	6,154 13 7	4,552 6 5	..	4,552 6 5	205 0 0	..	11,061 19 11
67. Merinburn ..	715 0 0	10 18 3	15 3 6	17 12 10	43 14 7	38 0 0	795 13 7	874 4 10	..	874 4 10	202 0 0	..	1,871 8 5
68. Nandaly ..	708 16 4	53 17 0	..	14 18 2	68 15 2	42 0 0	795 13 7	874 4 10	..	874 4 10	202 0 0	..	1,871 8 5
69. Nyah West ..	4,417 16 10	77 17 10	334 11 10	124 0 7	536 10 3	177 0 0	5,161 11 6	6,100 2 3	..	6,100 2 3	987 19 11	..	12,075 13 6
70. Patchewollock ..	4,759 14 6	32 14 6	..	26 3 2	58 17 8	60 0 0	5,161 11 6	6,100 2 3	..	6,100 2 3	987 19 11	..	12,075 13 6
71. Piangil ..	2,886 5 8	73 19 2	62 9 9	49 14 3	186 3 2	31 0 0	3,103 8 10	3,528 18 11	0 0 8	3,531 2 2	344 0 0	..	7,465 11 2
72. Portarlington ..	1,900 5 1	312 14 11	1 3 11	111 8 3	455 7 1	..	2,325 12 2	2,900 10 10	2 3 3	2,908 15 0	459 15 9	..	5,694 2 11
73. Speed ..	830 17 7	43 14 10	..	11 7 5	55 2 3	33 0 0	918 19 10	1,131 2 2	8 14 2	1,131 2 2	428 16 1	..	2,478 18 1
74. Tempy ..	803 17 2	63 4 8	1 4 1	13 19 2	78 7 11	..	929 5 1	1,042 15 0	..	1,042 15 0	380 0 0	..	2,352 0 1
75. Ultima ..	4,253 9 2	117 14 7	190 7 3	102 6 0	410 7 10	95 0 0	4,758 17 0	6,808 10 4	..	6,808 10 4	275 0 0	..	11,842 7 4
76. Walchic ..	844 3 7	42 12 2	..	11 19 7	54 11 9	40 0 0	938 15 4	1,198 15 7	..	1,198 15 7	288 0 0	..	2,425 10 11
77. Walpeup ..	617 8 6	53 4 8	2 15 9	21 18 6	77 18 11	80 0 0	775 7 5	1,384 9 11	0 10 2	1,385 0 1	39 0 0	..	1,205 7 5
78. Werrimull ..	1,746 16 9	88 9 6	40 6 5	47 9 3	176 5 2	50 0 0	1,973 1 11	2,385 2 0	..	2,385 2 0	504 11 0	..	4,846 18 5
Totals ..	46,496 4 10	1,798 13 2	1,476 17 5	1,142 0 5	4,417 11 0	1,024 0 0	51,937 15 10	53,998 1 4	56 8 4	54,053 9 8	7,215 8 9	(A) 150 0 0	113,370 1 3
Grand Totals ..	359,034 13 8	14,305 10 5	6,717 7 9	10,142 19 3	31,165 17 5	4,142 0 0	394,342 11 1	757,281 6 8	32,777 4 6	790,058 11 2	76,069 13 4	(A) 14,204 0 0	1,280,387 8 3
												(B) 5,712 12 8	

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

URBAN DIVISIONS.
STATEMENT of Moneys received from 1st May, 1906, to 30th June, 1941.
RECEIPTS.

Division.	1st May, 1906, to 30th June, 1940.	1940-41.						Grand Total at 30th June, 1941.	
		Rates.	Water Sales.	Interest and Miscellaneous.		Total.			
				£	s.	d.	£		s.	d.
1. Bacoehus Marsh	£	s.	d.	£	s.	d.
2. Cohuna	44,396	6	7	1,323	13	11
3. Dingee	22,253	0	4	921	6	0
4. Leitchville	1,347	18	11	62	18	0
5. Lookington	5,828	1	6	286	18	6
6. Red Cliffs	4,590	7	0	313	15	3
7. Stanhope	27,488	17	11	1,797	12	8
	3,580	7	1	398	7	4
Totals	109,484	19	4	5,104	11	8
				1,388	14	3
				300	11	9
				6,793	17	8
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 Order in Council, dated 30th July, 1938, under the provisions of section 6, <i>Water Act 1937</i> , No. 4513.)									
8. Corop	846	10	9	21	5	3
9. Heyfield	5,061	12	5	545	12	2
10. Murrabit	707	5	8	44	9	11
				14	0	0
Totals	6,615	8	10	611	7	4
Grand Totals	116,100	8	2	5,715	19	0
				1,402	14	3
				306	18	7
				7,425	11	10
				123,526	0	0

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

DRAINAGE DISTRICTS.

STATEMENT of Moneys received and disbursed from 1st July, 1937, to 30th June, 1941; and of Depreciation charged as at 30th June, 1941.

RECEIPTS.

District	1st January, 1938, to 30th June, 1940.	1940-41.						Grand Total at 30th June, 1941.
		Water Act 1940, No. 4740, Section 3.		Rates.	Interest and Miscellaneous.	Total.		
		Instalments of Consolidated Arrears.	Interest.					
				£	s.	d.	£	
1. Cohuna ..	£ 3,531 6 7	£ 171 7 3	£ 0 7 5	£ 1,526 13 4	£ 2 12 2	£ 1,701 0 2	£ 5,232 6 9	
2. Kerang East ..	2,040 14 11	96 7 4	0 5 11	815 14 2	0 12 5	912 19 10	2,953 14 9	
3. Maffra-Sale ..	1,191 15 9	179 19 9	..	1,020 11 2	5 7 0	1,205 17 11	2,397 13 8	
4. Merbein ..	3,385 12 9	226 0 0	0 0 11	1,899 12 2	0 11 10	2,126 4 11	5,511 17 8	
5. Red Cliffs ..	3,948 1 11	326 18 7	0 10 3	4,842 18 7	19 16 6	5,190 3 11	9,138 5 10	
6. Rochester ..	2,752 16 10	349 10 9	0 3 10	1,455 10 9	2 11 5	1,807 16 9	4,560 13 7	
7. Rodney ..	1,021 18 11	117 6 11	0 9 10	585 13 6	0 14 3	704 4 6	1,726 3 5	
8. Shepparton ..	5,789 4 4	253 6 5	0 11 11	2,273 9 4	7 7 10	2,534 15 6	8,323 19 10	
9. Tongala-Stanhope ..	3,272 18 11	709 4 3	3 5 0	2,328 0 11	6 1 2	3,046 11 4	6,319 10 3	
10. Werribee ..	1,542 18 9	28 19 7	..	609 4 5	3 1 11	641 5 11	2,184 4 8	
11. Woorinen ..	..	..	..	560 9 4	0 3 9	560 13 1	560 13 1
Totals	28,477 9 8	2,459 0 10	5 15 1	17,917 17 8	49 0 3	20,431 13 10	48,909 3 6	

DISBURSEMENTS.

District.	1st July, 1937, to 30th June, 1940.	1940-41.			Total at 30th June, 1941.	Grand Total at 30th June, 1941.
		Repairs and Maintenance.	Administration.	Total.		
		£ s. d.	£ s. d.	£ s. d.		
1. Cohuna ..	£ s. d. 4,194 2 2	£ s. d. 887 12 4	£ s. d. 405 0 4	£ s. d. 1,292 12 8	£ s. d. 5,486 14 10	£ s. d. 5,486 14 10
2. Kerang East ..	3,343 3 5	692 2 3	256 0 5	948 2 8	4,291 6 1	4,291 6 1
3. Maffra-Sale ..	3,428 6 4	849 1 9	289 15 8	1,138 17 5	4,567 3 9	4,567 3 9
4. Merbein ..	3,426 5 10	659 15 11	211 16 11	871 12 10	4,297 18 8	6,170 18 8
5. Red Cliffs ..	4,554 11 8	1,025 14 1	323 16 11	1,349 11 0	5,904 2 8	8,981 2 8
6. Rochester ..	5,155 3 0	1,121 6 9	321 6 3	1,442 13 0	6,597 16 0	6,597 16 0
7. Rodney ..	2,742 6 3	480 5 10	183 19 7	664 5 5	3,406 11 8	3,406 11 8
8. Shepparton ..	6,960 11 1	1,770 5 2	523 6 7	2,293 11 9	9,254 2 10	9,254 2 10
9. Tongala-Stanhope ..	8,039 11 5	2,048 0 2	625 2 4	2,673 2 6	10,712 13 11	10,712 13 11
10. Werribee ..	1,344 13 9	309 15 11	83 13 6	393 9 5	1,738 3 2	1,738 3 2
11. Woorinen ..	..	100 0 0	127 4 7	227 4 7	213 0 0	440 4 7
Totals ..	43,188 14 11	9,944 0 2	3,351 3 1	13,295 3 3	56,483 18 2	61,046 18 2

STATEMENT OF REVENUE SETTING OUT ARREARS AS AT 1ST JULY, 1940, AND AS AT 30TH JUNE, 1941, RESPECTIVELY.

	Total.	Water Act 1940, No. 4740, Sec. 3.		General Rate.		Irrigation Charge.		Drainage Rate.		Flood Protection Charge.		Sales of Water.	Meter Rent.	Miscellaneous.
		Consolidated Arrears.	Interest.	Rate.	Interest.	Charge.	Interest.	Rate.	Interest.	Charge.	Interest.			
Arrears at 1st July, 1940	£ 662,471	£ 437,635	£ ..	£ 75,489	£ 60,741	£ 28,401	£ 20,782	£ 3,570	£ 975	£ 2,141	£ 3,312	£ 22,741	£ 763	£ 5,921
Assessments, 1940-41	511,457	..	..	274,213	..	210,840	..	18,005	..	8,399	..	..	..	..
Additional Water Sales, Meter Rents and Interest Charges to 30th June, 1941	165,242	..	2,369	..	4,723	..	1,785	..	151	..	75	124,646	3,994	27,499
Total Amount Collectable, 1940-41	1,339,170	437,635	2,369	349,702	65,464	239,241	22,567	21,575	1,126	10,540	3,387	147,387	4,757	33,420
Deduct—														
(i) Revenue Collected, 1940-41 ..	611,235	36,591	100	231,666	1,495	191,638	427	17,918	33	7,575	2	94,833	3,903	25,054
(ii) Credits Absorbed	1,721	1	..	375	..	184	..	226	..	9	..	147	16	763
Balance	726,214	401,043	2,269	117,661	63,969	47,419	22,140	3,431	1,093	2,956	3,385	52,407	838	7,603
Add—Amounts Overpaid	1,717	..	..	260	5	204	5	96	1	21	..	168	9	948
Total = Gross Arrears at 30th June, 1941	727,931	401,043	2,269	117,921	63,974	47,623	22,145	3,527	1,094	2,977	3,385	52,575	847	8,551
Deduct—Amounts Recommended for Writing Off, 1940-41	110,872	1,048	1	17,564	57,111	7,142	26,716	440	968	632	3,293	984	3	970
Balance = Net Arrears as at 30th June, 1941	617,059	399,995	2,268	100,357	6,863	40,481	1,429	3,087	126	2,345	92	51,591	844	7,581

This Statement is subject to Audit and minor adjustments.

SUB-SURFACE DRAINAGE WORKS.

Extensive Sub-surface Drainage Works have been constructed in the important dried fruit centres of Red Cliffs, Merbein, Mildura and Woorinen. The cost of the works has been met by grants approved from Unemployment Relief Loan Funds, supplemented by contributions from growers.

A condition of the grants was that settlers would contribute £5 per irrigable acre in respect to the schemes at Red Cliffs, Merbein, and Mildura, and £2 10s. 0d. per irrigable acre for planted areas and £1 per irrigable acre for unplanted areas in respect to the Woorinen scheme. Such portion of the contributions, as required, was to be applied to supplement the grants from Unemployment Relief Funds and the balance paid to State Loans Repayment Fund (Unemployment Relief) as part recoup of the moneys made available by the State to carry out the works.

The expenditure to 30th June, 1941, in the respective areas is set out hereunder :—

Area.	Source of Funds.		Total Cost of Scheme to 30th June, 1941.
	Unemployment Relief Loan Funds.	Growers' Contributions during Construction.	
	£ s. d.	£ s. d.	£ s. d.
Red Cliffs Irrigation and Water Supply District ..	151,465 5 4	18,549 0 6	170,014 5 10
Merbein Irrigation and Water Supply District ..	93,821 18 7	19,749 15 1	113,571 13 8
First Mildura Irrigation Trust	211,142 13 10	52,867 19 8	264,010 13 6
Woorinen Drainage District	49,097 2 10	..	49,097 2 10
Totals	505,527 0 7	91,166 15 3	596,693 15 10

In addition, Sub-surface Drainage Works are now under construction in the Nyah area. The cost of the work is being met from Unemployment Relief Loan Funds. The expenditure to 30th June, 1941, was £12,531 8s. 8d. No contributions have yet been made by growers in respect of these works.

The following statement shows the position of the payments in respect of growers' contributions to the respective sub-surface drainage schemes.

Area.	Total Amount of Contributions.	Instalments due to 30th June, 1941.	Payments made as at 30th June, 1941.	Arrears of Contributions as at 30th June, 1941.
	£ s. d.	£ s. d.	£ s. d.	£ s. d.
Red Cliffs Irrigation and Water Supply District	40,961 16 8	40,937 17 6	37,472 5 10	3,465 11 8
Merbein Irrigation and Water Supply District	31,476 0 0	29,100 8 4	28,445 14 2	654 14 2
First Mildura Irrigation Trust	53,677 19 3	53,677 19 3	53,677 19 3	..
Woorinen Drainage District	8,561 0 0	1,712 4 0	1,513 4 0	213 13 0
Totals	134,676 15 11	125,428 9 1	121,109 3 3	4,333 18 10

The First Mildura Irrigation Trust raised the equivalent of the growers' contributions by means of a loan from outside sources. The Trust will recoup itself from the contributions by local growers.

WATER SUPPLY WORKS DEPRECIATION ACCOUNTS AS AT 30TH JUNE, 1941.

District.	Balance at 1st July, 1940.	Amounts Paid Into Account 1940-41.	Interest Credited 1940-41.	Total.	Expenditure 1940-41.	Balance in Account at 30th June, 1941.
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
IRRIGATION AND WATER SUPPLY DISTRICTS.						
Bacchus Marsh ..	54 0 0	..	1 12 5	55 12 5	..	55 12 5
Boort ..	83 9 1	27 0 0	2 10 0	112 19 1	..	112 19 1
Calivil ..	39 15 7	13 0 0	1 3 10	53 19 5	..	53 19 5
Cohuna ..	193 0 11	*11 10 0	..	204 10 11	..	204 10 11
Dingee ..	30 18 2	10 0 0	0 18 6	41 16 8	..	41 16 8
Katandra ..	36 14 5	12 0 0	1 2 0	49 16 5	..	49 16 5
Maffra-Sale ..	401 16 4	*133 13 1	12 1 0	547 10 5	..	547 10 5
Merbein ..	5,803 11 7	3,408 10 9	170 8 0	9,382 10 4	..	9,382 10 4
Murray Valley ..	..	*29 5 4	0 3 0	29 8 4	..	29 8 4
North Shepparton ..	53 11 3	52 0 0	1 12 2	107 3 5	..	107 3 5
Nyah ..	505 9 0	763 13 8	12 9 0	1,281 11 8	90 10 3	1,191 1 5
Red Cliffs ..	19,943 9 7	8,358 9 8	523 8 0	28,825 7 3	1,945 2 11	26,880 4 4
Rochester ..	359 7 10	117 0 0	10 15 8	487 3 6	..	487 3 6
Rodney ..	391 13 7	128 0 0	11 15 0	531 8 7	..	531 8 7
Shepparton ..	143 16 5	47 0 0	4 6 3	195 2 8	..	195 2 8
South Shepparton ..	30 12 0	..	0 18 4	31 10 4	..	31 10 4
Swan Hill ..	1,557 4 6	340 0 0	31 10 6	1,928 15 0	..	1,928 15 0
Tongala-Stanhope ..	324 1 7	106 0 0	9 14 5	439 16 0	..	439 16 0
Tragowel Plains ..	207 0 0	69 0 0	6 4 2	282 4 2	..	282 4 2
Tresco ..	..	..	..	..	..	..
Werribee ..	246 0 0	*51 5 0	8 3 0	305 8 0	..	305 8 0
Totals ..	30,405 11 10	13,677 7 6	810 15 3	44,893 14 7	2,035 13 2	42,858 1 5

* Includes contribution paid direct to fund—Cohuna, £11 10s.; Maffra-Sale, £3 13s. 1d.; Murray Valley, £29 5s. 4d.; Werribee, £51 5s.; Total, £95 13s. 5d.

URBAN DIVISIONS OF IRRIGATION AND WATER SUPPLY DISTRICTS.

Bacchus Marsh ..	385 11 2	126 0 0	11 11 4	523 2 6	..	523 2 6
Cohuna ..	141 17 0	99 0 0	4 5 0	245 2 0	..	245 2 0
Corop ..	18 10 10	6 0 0	0 11 2	25 2 0	..	25 2 0
Dingee ..	50 4 10	14 0 0	1 5 11	65 10 9	..	65 10 9
Heyfield ..	354 5 0	73 1 2	10 12 7	437 18 9	..	437 18 9
Leitchville ..	176 0 9	45 0 0	4 2 7	225 3 4	..	225 3 4
Lockington ..	277 17 0	84 4 1	4 16 6	366 17 7	229 19 3	136 18 4
Murrabit ..	26 5 7	..	0 15 9	27 1 4	..	27 1 4
Red Cliffs ..	673 19 2	193 0 0	10 16 9	877 15 11	392 3 5	485 12 6
Stanhope ..	165 14 4	35 0 0	3 5 3	203 19 7	..	203 19 7
Totals ..	2,270 5 8	675 5 3	52 2 10	2,997 13 9	622 2 8	2,375 11 1

WATERWORKS DISTRICTS.

Carwarp ..	..	..	..	..	..	..
Carwarp Central ..	6 19 7	..	..	6 19 7	..	6 19 7
Coreena ..	..	..	..	..	..	..
Harcourt ..	39 0 0	13 0 0	1 3 5	53 3 5	..	53 3 5
Hindmarsh ..	490 0 5	..	8 16 10	498 17 3	..	498 17 3
Long Lake ..	..	..	..	..	..	..
Millewa ..	..	..	..	..	..	..
Millewa Central ..	..	..	..	..	..	..
Mornington Peninsula ..	574 18 1	186 0 0	17 4 11	778 3 0	..	778 3 0
Otway ..	642 19 5	2,224 19 5	19 5 9	2,887 4 7	..	2,887 4 7
Tyntynder ..	..	..	..	..	..	..
Tyrrell ..	..	..	..	..	..	..
Tyrrell West ..	..	..	..	..	..	..
Upper Western Wimmera ..	169 1 2	..	..	169 1 2	..	169 1 2
Walpeup West ..	207 19 1	452 16 11	6 4 8	667 0 8	..	667 0 8
Western Wimmera ..	..	*100 12 9	..	100 12 9	..	100 12 9
Wimmera United ..	..	..	..	..	..	..
Totals ..	2,130 17 9	2,977 9 1	52 15 7	5,161 2 5	..	5,161 2 5

* Includes contribution of £9 paid direct to fund.

URBAN DISTRICTS OF WATERWORKS DISTRICTS.

Anglesea ..	171 4 10	56 0 0	5 2 8	232 7 6	..	232 7 6
Antwerp ..	11 4 1	2 0 0	0 3 8	13 7 9	..	13 7 9
Barwon Heads and Ocean Grove ..	738 19 7	279 0 0	22 3 5	1,040 3 0	..	1,040 3 0
Berriwillock ..	49 9 1	16 0 0	1 9 8	66 18 9	..	66 18 9
Berwick ..	806 18 5	263 0 0	24 3 10	1,094 2 3	0 10 4	1,093 11 11
Beulah ..	93 13 9	23 0 0	2 9 6	119 3 3	11 8 4	107 14 11
Birchip ..	253 13 4	84 0 0	7 10 11	345 4 3	..	345 4 3
Bittern ..	105 1 10	34 0 0	3 3 0	142 4 10	..	142 4 10
Brim ..	106 13 9	39 5 2	2 13 3	148 12 2	..	148 12 2
Bunyip ..	443 7 8	144 0 0	13 6 0	600 13 8	..	600 13 8
Camperdown ..	574 0 0	574 0 0	17 4 5	1,165 4 5	..	1,165 4 5
Carrum ..	7,110 0 4	2,340 0 0	195 11 11	9,645 12 3	590 4 2	9,055 8 1
Carwarp ..	66 13 4	..	0 10 10	67 4 2	..	67 4 2
Chillingollah ..	22 11 11	32 0 0	..	54 11 11	..	54 11 11
Carried forward ..	10,553 11 11	3,886 5 2	295 13 1	14,735 10 2	602 2 10	14,133 7 4

WATER SUPPLY WORKS DEPRECIATION ACCOUNTS AS AT 30TH JUNE, 1941—continued.

District.	Balance at 1st July, 1940.	Amounts Paid into Account 1940-41.	Interest Credited 1940-41.	Total.	Expenditure 1940-41.	Balance in Account at 30th June, 1941.
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
URBAN DISTRICTS OF WATERWORKS DISTRICTS—continued.						
Brought forward ..	10,553 11 11	3,886 5 2	295 13 1	14,735 10 2	602 2 10	14,133 7 4
Chinkapook ..	63 0 11	..	..	63 0 11	..	63 0 11
Cobden ..	167 0 0	102 0 0	5 0 2	274 0 2	..	274 0 2
Coliban ..	11,794 12 0	10,321 6 5	282 3 2	22,398 1 7	2,389 5 3	20,008 16 4
Cranbourne ..	312 3 7	101 0 0	9 7 2	422 10 9	..	422 10 9
Crib Point ..	326 3 0	201 8 6	9 14 0	537 5 6	..	537 5 6
Culgoa ..	84 1 10	18 0 0	2 8 11	104 10 9	25 17 9	78 13 0
Dandenong ..	4,478 18 6	1,455 0 0	119 12 1	6,053 10 7	491 19 10	5,561 10 9
Dimboola ..	253 7 11	155 0 0	7 12 1	416 0 0	..	416 0 0
Dooen ..	33 17 11	11 0 0	1 0 4	45 18 3	..	45 18 3
Drysdale ..	253 19 7	83 0 0	7 12 5	344 12 0	..	344 12 0
Frankston ..	3,205 5 3	1,118 0 0	96 3 2	4,419 8 5	..	4,419 8 5
Garfield ..	257 19 6	111 0 0	7 14 10	376 14 4	..	376 14 4
Hastings ..	491 0 8	161 0 0	9 19 10	662 0 6	157 16 3	504 4 3
Hicksborough ..	32 9 10	6 0 0	0 11 2	39 1 0	..	39 1 0
Hopetoun ..	188 10 10	61 0 0	3 15 8	253 6 6	62 3 2	191 3 4
Jeparit ..	149 9 4	39 0 0	3 11 8	192 1 0	..	192 1 0
Jung Jung ..	92 14 0	..	2 15 7	95 9 7	..	95 9 7
Koondrook ..	..	17 10 4	..	17 10 4	..	17 10 4
Lake Boga ..	165 8 6	..	..	165 8 6	..	165 8 6
Lalbert ..	1 7 9	21 14 1	..	23 1 10	..	23 1 10
Longwarry ..	294 19 3	167 6 3	8 17 0	471 2 6	..	471 2 6
Manangatang ..	250 6 7	66 0 0	5 10 11	321 17 6	246 16 4	75 1 2
Marnoo ..	260 3 6	33 0 0	3 1 2	296 4 8	..	296 4 8
Marong ..	81 2 7	37 13 9	2 8 8	121 5 0	..	121 5 0
Merbein ..	428 15 1	23 17 2	12 14 1	465 6 4	..	465 6 4
Lascelles ..	63 8 0	15 4 5	1 11 2	80 3 7	11 7 4	68 16 3
Meringur ..	73 16 1	20 16 5	0 19 2	95 11 8	..	95 11 8
Minyip ..	75 0 0	75 0 0	2 5 0	152 5 0	..	152 5 0
Mornington ..	2,080 14 3	685 0 0	61 12 3	2,827 6 6	..	2,827 6 6
Mount Martha ..	503 16 4	163 0 0	15 2 4	681 18 8	..	681 18 8
Nandaly ..	85 1 9	11 19 9	0 14 11	97 16 5	..	97 16 5
Natimuk ..	154 10 10	50 0 0	4 12 8	209 3 6	..	209 3 6
Newstead ..	157 12 8	51 0 0	4 14 6	213 7 2	..	213 7 2
North Wonthaggi ..	225 5 5	44 0 0	4 1 7	273 7 0	..	273 7 0
Nullawil ..	57 19 4	10 0 0	0 18 6	68 17 10	..	68 17 10
Nyah ..	45 18 0	29 8 2	1 2 10	76 9 0	..	76 9 0
Nyah West ..	435 8 3	..	6 10 9	441 19 0	..	441 19 0
Ouyen ..	564 6 2	16 3 10	8 5 3	588 15 3	510 3 8	78 11 7
Pakenham ..	840 9 6	319 8 3	18 11 5	1,178 9 2	..	1,178 9 2
Patchewollock ..	129 0 3	17 0 0	1 11 3	147 11 6	..	147 11 6
Piangil ..	44 1 6	146 16 5	0 2 6	191 0 5	..	191 0 5
Portarlington ..	341 9 1	122 1 8	10 4 10	473 15 7	..	473 15 7
Pyramid Hill ..	259 1 5	39 0 0	3 12 3	301 13 8	..	301 13 8
Quambatook ..	126 15 3	31 8 6	3 14 11	161 18 8	..	161 18 8
Queenscliff and Point Lonsdale ..	1,580 17 5	514 0 0	46 17 7	2,141 15 0	18 4 0	2,123 11 0
Rainbow ..	148 7 3	48 0 0	3 11 5	199 18 8	29 7 0	170 11 8
Rupanyup ..	227 0 6	57 0 0	4 14 11	288 15 5	119 13 1	169 2 4
Sea Lake ..	629 1 3	75 0 0	6 19 1	711 0 4	..	711 0 4
Somerville ..	182 7 3	59 0 0	5 9 5	246 16 8	..	246 16 8
South Frankston ..	837 15 7	312 0 0	15 3 11	1,164 19 6	204 6 1	960 13 5
Speed ..	157 18 0	11 16 1	1 14 5	171 8 6	..	171 8 6
Spring Vale ..	2,673 12 7	865 0 0	80 4 2	3,618 16 9	..	3,618 16 9
Tempy ..	134 11 1	17 0 0	1 11 2	153 2 3	..	153 2 3
Terang ..	436 0 0	494 0 0	13 1 7	943 1 7	..	943 1 7
Torquay ..	297 4 0	..	8 18 3	306 2 3	..	306 2 3
Ultima ..	10 19 2	..	..	10 19 2	..	10 19 2
Waitchie ..	..	..	..	..	..	..
Walpeup ..	39 0 0	..	1 3 5	40 3 5	..	40 3 5
Watchem ..	138 17 4	35 0 0	3 4 11	177 2 3	..	177 2 3
Werrimull ..	189 17 10	13 11 0	3 17 2	207 6 0	..	207 6 0
Wonthaggi ..	1,963 11 6	538 10 1	28 11 6	2,530 13 1	5 9 4	2,525 3 9
Woomelang ..	200 18 2	65 0 0	6 0 7	271 18 9	..	271 18 9
Woorinen ..	78 19 8	..	1 4 7	80 4 3	..	80 4 3
Wycheproof ..	676 12 2	143 0 0	13 5 2	832 17 4	..	832 17 4
Yaapeet ..	108 10 6	..	3 5 0	111 15 6	72 7 6	39 8 0
Totals ..	51,196 5 2	23,292 6 3	1,296 13 6	75,785 4 11	4,946 19 5	70,838 5 6

DRAINAGE DISTRICTS.

Merbein ..	859 14 11	1,027 6 7	25 15 10	1,912 17 4	..	1,912 17 4
Red Cliffs ..	590 3 2	2,489 17 0	17 14 1	3,097 14 3	..	3,097 14 3
Woorinen ..	..	213 0 0	..	213 0 0	..	213 0 0
Totals ..	1,449 18 1	3,730 3 7	43 9 11	5,223 11 7	..	5,223 11 7
Grand Totals ..	87,452 18 6	44,352 11 8	2,255 17 1	134,061 7 3	7,604 15 3	126,456 12 0

* Includes an amount of £104 13s. 5d. being contribution in respect of Capitalized Maintenance paid direct to Fund.

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.
Balance from 1939-40			87,452 18 6	Credit Balance as at 30th June, 1940	8,247	18	9
Paid into Account 1940-41 ..	44,247	18	3	<i>Less</i> Expenditure 1940-41 ..	7,604	15	3
Paid by Commission direct to Fund 1940-41	104	13	5		643	3	6
			44,352 11 8	Add Amount transferred to Fund by Treasury 1940-41	50,000	0	0
Interest Credited			131,805 10 2		50,643	3	6
			2,255 17 1	Paid by Commission direct to Fund 1940-41	104	13	5
<i>Less</i> Expenditure 1940-41			134,061 7 3				
			7,604 15 3	Amount invested in Sundry Invest- ments Account as at 30th June, 1940	4,214	1	7
Balance in Account at 30th June, 1941 ..			126,456 12 0	Interest earned 1940-41	127	7	4
					4,341	8	11
				Amount not transferred to Fund at 30th June, 1940	73,952	4	1
				Add difference between Interest credited to Depreciation Ac- counts and Interest earned on investments for 1938-39 and 1939-40	1,038	14	1
					74,990	18	2
				<i>Less</i> Amount transferred to Fund by Treasury 1940-41	50,000	0	0
					24,990	18	2
				Amount paid to Revenue 1940-41, £44,247 18s. 3d. Add difference between Interest credited to Depreciation Ac- counts and Interest earned on investments 1940-41, £2,128 9s. 9d.	46,376	8	0
				Amount not yet transferred to Fund by Treasury			
					71,367	6	2
					126,456	12	0

WATER SUPPLY PLANT AND MACHINERY ACCOUNT (ACT 4761).

SUMMARY OF YEAR OF OPERATIONS TO 30TH JUNE, 1941.

	£	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 was engaged—									
Interest with respect to Capital Liability of—									
At 30th June, 1941, £61,147									
4s. 3d.	2,097	0	8						
Redemption	131	1	4						
Depreciation	5,310	16	11						
Costs of operation, maintenance and repairs ..	7,067	9	1						
				14,606	8	0			
Interest—Depreciation Fund									
Investment				139	16	7			
Balance from 1939–40 ..				1,256	2	4			
				16,002	6	11			
Interest paid to Revenue No. 2, Interest to 30th June, 1941 ..							1,935	5	8
Redemption paid to Revenue No. 9, Miscellaneous, to 30th June, 1941 ..							122	3	10
Water Supply Plant and Machinery Depreciation Fund (in Treasury)	5,310	16	11						
Interest on Fund Investment ..	139	16	7						
							5,450	13	6
Costs of Operation, Maintenance and Repairs							6,192	18	2
Stores Suspense Account Reserve ..							2,301	5	9
							16,002	6	11

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

<i>Water Supply Plant and Machinery Depreciation Account.</i>						
	£	s.	d.	£	s.	d.
Balance from 1939-40 ..	4,660	19	8			
Paid into Account 1940-41 ..	5,310	16	11			
				9,971	16	7
Interest credited for year 1940-41 ..				139	16	7
				10,111	13	2

<i>Water Supply Plant and Machinery Depreciation Fund (in Treasury).</i>						
	£	s.	d.	£	s.	d.
Credit Balance as at 30th June, 1940	4,660	19	8			
Paid into Fund as at 30th June, 1941	5,310	16	11			
				9,971	16	7
Interest earned but not yet trans- ferred to Fund ..				139	16	7
				10,111	13	2

CONTRACTS.

STATEMENT OF CONTRACTS ENTERED INTO DURING THE YEAR ENDED 30TH JUNE, 1941.

No.	Name of Contractor.	Work or Supply.	Amount (Loan and Vote).
			£ s. d.
3152	Australian Cement Ltd. 	1,600 tons Low Heat Portland Cement, Works Generally 	6,186 13 4
3153	Australian Cement Ltd. 	2,000 tons Portland Cement, Works Generally 	7,483 6 8
3154	Australian General Electric Pty. Ltd. ..	One 1,050 K.W. Turbo-Alternator, Red Cliffs Pumping Station ..	11,938 0 0
3155	Southern States Drilling Co. Pty. Ltd.	Drilling 1,250 lineal feet of 5 inch diameter Well Holes in granite, Hume Reservoir 	1,853 2 6
3156	Southern States Drilling Co. Pty. Ltd.	Drilling 3,900 lineal feet of 5 inch diameter Well Holes in granite, Hume Reservoir 	5,398 15 0
3157	Australian Cement Ltd. 	650 tons Low Heat Portland Cement, Works Generally 	2,513 6 8
3158	Australian Cement Ltd. 	2,000 tons Portland Cement, Works Generally 	7,183 6 8
	<i>Contracts at Piecework Rates—</i>		
	Channel Construction 	Murray Valley District 	38,749 1 0
	Channel Construction 	Rocklands-Toolondo Channel 	21,682 11 0
	Firewood Supplies 	Pumping Stations 	13,040 0 0
	Miscellaneous .. ..	.. .. .. .. .. .. ..	2,326 5 10
		Total 	118,354 8 8

DIRECT LABOUR 1940-41.

The construction of the larger works is still being mainly carried out by "Direct Labour," and the Statement hereunder shows the respective Funds from which this expenditure has been met. The principal payments during the year were:—

Works.	Loan Funds. £	Unemployment Relief Funds. £
River Murray Storages 	23,921	..
Otway District Towns (Camperdown, Terang, Warrnambool, Cobden) 	212	..
Lauriston Reservoir .. .. .. .. ..	..	56,748
Coliban System 	710	15,514
Murray Valley District 	19,268	..
Wimmera Mallee System 	1,616	534
Glenelg River Works 	25,092	..
Merbein, Mildura, and Red Cliffs Districts 	2,289	..
Rivers and Reclamation Division—		
River Improvements .. .. .. .. ..	..	666
Kooweerup and Cardinia Flood Protection Works 	3	2,266
Main Urban Supplies Division—		
Mornington Peninsula District 	13,870	7,011
Bellarine Peninsula District 	5,677	..
Gippsland and Goulburn Division—		
Deakin, Rochester, Rodney, Shepparton, Tongala-Stanhope, Maffra-Sale, Bacchus Marsh and Werribee Districts 	1,040	17,930
Loddon Division—		
Boort, Tragowel Plains, Nyah, Swan Hill, Cohuna, Kerang, Kerang Lakes, Koondrook, Mystic Park, and Tresco Districts 	2,807	7,158
Miscellaneous 	1,378	..
	97,883	107,827
Grand Total 	£205,710	

CAPITAL EXPENDITURE.

STATEMENT OF MONEYS EXPENDED FROM STATE FUNDS UNDER WATER SUPPLY LOAN ACTS AND FROM UNEMPLOYMENT RELIEF FUNDS FOR THE YEAR ENDED 30TH JUNE, 1941.

Works.	Water Supply Loan Funds.				Unemployment Relief Funds, Act 4097, £217,293 1s. 9d., Other Funds, £848 2s. 2d.
	Act 4655.	Act 4771.	Total Ordinary Loan Funds.	Treasurer's Advance.	
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
<i>Free Headworks.</i>					
Goulburn-Waranga Channel .. .. .	..	16 13 3	16 13 3	..	Cr. 0 5 6
Kow Swamp Works	31 19 7	4 3 2	36 2 9	..	..
Loddon River Works	336 17 4	664 12 11	1,001 10 3	..	..
<i>River Murray Waters Acts.—Works</i> .. .. .	..	20,000 0 0	20,000 0 0	..	..
<i>Main Supply Works.</i>					
Eildon Reservoir .. .. .	..	47 13 5	47 13 5	..	..
Waranga - Western Extension, Loddon - Avoca Section 2 .. .. .	..	..	..	..	177 12 3
Lauriston Reservoir .. .. .	..	..	..	..	90,556 1 1
Glenmaggie Reservoir .. .. .	..	2 13 7	2 13 7	..	..
Melton Reservoir	0 3 0	396 15 10	396 18 10	..	..
Pykes Creek Reservoir .. .. .	..	17 9 5	17 9 5	..	..
Rocklands Reservoir .. .. .	..	12,868 16 3	12,868 16 3	52,319 10 2	..
Rocklands Outlet Channel .. .. .	..	32,375 11 10	32,375 11 10	..	..
Toolondo Outlet Channel .. .. .	..	1,791 16 2	1,791 16 2	..	..
Glenelg River Works to Wimmera-Mallee .. .. .	..	3,086 2 8	3,086 2 8	..	..
Wimmera Storages	298 7 7	0 4 0	298 11 7	..	..
Wimmera Main Channels	204 10 0	1,456 9 2	1,660 19 2	..	747 15 11
Surveys and Investigations	751 1 5	3,011 19 6	3,763 0 11	..	..
Plant and Machinery Suspense	9,426 0 0	15,360 0 0	24,786 0 0	..	..
<i>Irrigation and Water Supply Districts.</i>					
Bacchus Marsh	5 9 8	304 12 1	310 1 9	..	1,965 5 5
Boort .. .. .	..	1 0 0	1 0 0	..	..
Calivil	1 2 2	40 17 5	41 19 7	..	..
Campaspe .. .. .	..	1 0 10	1 0 10	..	40 3 11
Cohuna	3 18 2	204 19 2	208 17 4	..	1,454 3 2
Deakin .. .. .	..	5 3 10	5 3 10	..	..
Fish Point	2 10 6	..	2 10 6	..	..
Katandra	27 6 7	5 12 7	32 19 2	..	270 0 0
Kerang	51 17 8	135 7 9	187 5 5	..	..
Koondrook	0 6 6	106 2 3	106 8 9	..	258 2 11
Leitchville	5 0 0	13 15 11	18 15 11	..	..
Maffra-Sale	266 7 9	488 2 9	754 10 6	..	715 13 9
Merbein	1,912 14 4	4,742 12 0	6,655 6 4	..	..
Murray Valley (under construction)	Cr. 267 1 3	118,200 2 11	117,933 1 8	3,980 4 11	..
Mystic Park	3 17 6	89 14 4	93 11 10	..	..
North Shepparton	54 18 2	471 9 9	526 7 11	..	9 0 11
Nyah	1,228 7 2	6,966 7 10	8,194 15 0	..	..
Red Cliffs	320 19 8	221 18 11	542 18 7	..	..
Rochester	232 14 3	236 13 4	469 7 7	..	..
Rodney	189 14 11	464 19 9	654 14 8	..	..
Shepparton	48 18 0	324 8 9	373 6 9	..	46 15 3
Swan Hill	47 15 9	310 4 10	358 0 7	..	..
Third Lake	36 12 1	24 2 11	60 15 0	..	..
Tongala-Stanhope	16 4 1	117 15 2	133 19 3	..	..
Tragowel Plains .. .. .	..	73 1 8	73 1 8	..	..
Tresco .. .. .	..	19 7 7	19 7 7	..	..
Werribee	33 5 1	116 14 4	149 19 5	..	1,382 18 9
<i>Urban Divisions of Irrigation and Water Supply Districts.</i>					
Cohuna .. .. .	..	23 13 1	23 13 1	..	..
Corop .. .. .	..	..	..	..	70 15 0
Red Cliffs	2 3 4	188 1 2	190 4 6	..	..
Stanhope	2 19 8	..	2 19 8	..	20 1 4
<i>Waterworks Districts.</i>					
Bellarine Peninsula (including Headworks)	5,194 9 7	4,531 8 3	9,725 17 10	..	3,212 10 8
Birchip	11 13 4	139 19 5	151 12 9	..	..
Carwarp	0 10 0	..	0 10 0	..	..
Hindmarsh	0 10 6	5 18 11	6 9 5	..	..
Karkaroc	55 3 10	126 4 1	181 7 11	..	..
Kerang North-West Lakes	0 7 2	612 5 7	612 12 9	..	..
Long Lake	102 12 11	443 8 2	546 1 1	..	..
Millewa .. .. .	..	23 2 4	23 2 4	..	..
Mornington Peninsula (including Headworks)	14,907 9 0	16,301 6 3	31,208 15 3	..	277 14 2†
Normanville	0 10 5	80 1 7	80 12 0	..	..
Otway	195 14 2	613 19 6	809 13 8	..	..
Sea Lake	79 0 10	184 8 2	263 9 0	..	362 9 5
Carried forward	35,825 2 5	248,061 6 4	283,886 8 9	56,299 15 1	101,566 18 5

CAPITAL EXPENDITURE—continued.

STATEMENT OF MONEYS EXPENDED FROM STATE FUNDS UNDER WATER SUPPLY LOAN ACTS AND FROM UNEMPLOYMENT RELIEF FUNDS FOR THE YEAR ENDED 30TH JUNE, 1941—continued.

Works.	Water Supply Loan Funds.				Unemployment Relief Funds, Act 4097, £217,293 1s. 9d.; Other Funds, £848 2s. 2d.
	Act 4655.	Act 4771.	Total Ordinary Loan Funds.	Treasurer's Advance.	
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
Brought forward	35,825 2 5	248,061 6 4	283,886 8 9	56,299 15 1	101,566 18 5
<i>Waterworks Districts—continued.</i>					
Tyntynder	5 2 11	26 3 3	31 6 2	..	2 10 7
Tyrrell	30 1 9	34 6 3	64 8 0	..	94 0 7
Tyrrell West	57 4 9	117 17 9	175 2 6	..	565 18 1
Upper Western Wimmera	30 5 9	7 18 11	38 4 8	..	..
Upper Wimmera United	18 19 6	7 0 4	25 19 10	..	..
Western Wimmera	26 19 3	102 18 1	129 17 4	..	2,279 17 4
Wimmera United	5 2 7	342 19 2	348 1 9	..	Cr. 280 17 1
Wycheproof	6 1 5	51 19 1	58 0 6	..	..
<i>Urban Districts of Waterworks Districts.</i>					
Allansford .. .. .	..	1 1 10	1 1 10	..	..
Anglesea .. .. .	..	..	..	..	..
Antwerp .. .. .	..	..	..	..	31 2 6
Berriwillock .. .. .	..	4 0 0	4 0 0	..	..
Berwick .. .. .	..	45 17 8	45 17 8	..	..
Beulah .. .. .	..	31 4 0	31 4 0	..	101 12 0
Birchip	1 4 9	12 6 5	13 11 2	..	..
Brim .. .. .	..	4 1 6	4 1 6	..	..
Bunyip .. .. .	..	10 2 3	10 2 3	..	..
Camperdown	57 14 4	368 10 10	426 5 2	..	..
Carrum	1 14 0	431 13 3	433 7 3	..	..
Chillingollah .. .. .	..	4 5 10	4 5 10	..	..
Cobden .. .. .	..	1,011 14 8	1,011 14 8	..	..
Coliban	1,694 11 3	16,343 2 0	18,037 13 3	..	31,619 13 0
Cranbourne .. .. .	..	21 5 1	21 5 1	..	..
Culgoa .. .. .	..	28 4 2	28 4 2	..	..
Dandenong	59 10 3	773 10 8	833 0 11	..	..
Dimboola	1 15 9	10 4 7	12 0 4	..	67 17 7
Dromana-Portsea	3,532 1 1	34,196 11 0	37,728 12 1	..	19,836 3 1
Frankston .. .. .	..	466 17 1	466 17 1	..	..
Garfield .. .. .	..	61 5 1	61 5 1	..	..
Hastings .. .. .	..	69 2 0	69 2 0	..	..
Hopetoun	1 0 11	66 17 0	67 17 11	..	186 19 4*
Jeparit .. .. .	..	..	..	..	57 5 7
Jung Jung .. .. .	..	46 11 11	46 11 11	..	..
Lalbert	7 15 4	7 12 7	15 7 11	..	..
Lascelles .. .. .	..	4 3 2	4 3 2	..	..
Longwarry .. .. .	..	6 14 4	6 14 4	..	..
Manangatang .. .. .	..	92 4 10	92 4 10	..	..
Merbein	260 16 0	104 19 8	365 15 8	..	..
Minyip .. .. .	..	13 4 11	13 4 11	..	95 17 4
Mornington	59 14 3	247 13 9	307 8 0	..	..
Mount Martha .. .. .	..	53 8 6	53 8 6	..	..
Nullawil .. .. .	..	8 3 2	8 3 2	..	..
Nyah .. .. .	..	75 11 1	75 11 1	..	..
Nyah West .. .. .	..	73 1 4	73 1 4	..	..
Ouyen	163 13 10	20 3 11	183 17 9	..	..
Pakenham .. .. .	..	20 15 6	20 15 6	..	..
Patchewollock .. .. .	..	16 11 8	16 11 8	..	..
Pyramid Hill .. .. .	..	16 19 1	16 19 1	..	..
Quambatook .. .. .	..	16 12 10	16 12 10	..	..
Rainbow	1 3 8	43 19 1	45 2 9	..	17 14 0
Rupanyup .. .. .	..	162 2 9	162 2 9	..	1,656 8 3
Sea Lake	1 5 8	52 13 10	53 19 6	..	..
South Frankston	410 5 2	216 13 7	626 18 9	..	..
Spring Vale .. .. .	..	2,181 14 5	2,181 14 5	..	..
Terang .. .. .	..	177 4 4	177 4 4	..	..
Torquay	2 17 2	33 6 4	36 3 6	..	..
Ultima .. .. .	..	20 13 6	20 13 6	..	252 0 9
Walpeup .. .. .	..	25 6 9	25 6 9	..	..
Watchem .. .. .	..	12 3 2	12 3 2	..	..
Wonthaggi	14 15 3	47 11 7	62 6 10	..	71 2 10
Woomelang .. .. .	..	16 3 2	16 3 2	..	..
Woorinen .. .. .	..	27 6 1	27 6 1	..	..
Wycheproof	1 0 9	54 18 8	55 19 5	..	..
Yaapeet .. .. .	..	12 7 0	12 7 0	..	..
Carried forward	42,277 19 9	306,623 2 7	348,901 2 4	56,299 15 1	158,222 4 2

CAPITAL EXPENDITURE—continued.

STATEMENT OF MONEYS EXPENDED FROM STATE FUNDS UNDER WATER SUPPLY LOAN ACTS AND FROM UNEMPLOYMENT RELIEF FUNDS FOR THE YEAR ENDED 30TH JUNE, 1941—continued.

Works.	Water Supply Loan Funds.				Unemployment Relief Funds, Act 4097. £217,293 1s. 9d.; Other Funds, £848 2s. 2d.
	Act 4655.	Act 4771.	Total Ordinary Loan Funds.	Treasurer's Advance.	
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
Brought forward	42,277 19 9	306,623 2 7	348,901 2 4	56,299 15 1	158,222 4 2
<i>Flood Protection Districts.</i>					
Cardinia	488 8 4	1,331 5 5	1,819 13 9	..	1,737 2 0
Kanyapella .. .. .	..	..	..	..	38 2 3
Kooweerup Lower	45 10 0	492 15 6	538 5 6	..	4,604 19 11
Loch Garry .. .. .	..	..	..	..	..
<i>Drainage Districts.</i>					
Cohuna	110 5 5	547 2 4	657 7 9	..	2,832 12 11
Korang East	5 0 8	6 12 5	11 13 1	..	3,045 14 8
Maffa-Sale .. .. .	..	38 11 9	38 11 9	..	2,483 6 10
Merbein	30 18 5	13 11 2	44 9 7	..	697 13 6†
Red Cliffs	17 1 2	6 2 1	23 3 3	..	..
Rochester	116 9 2	39 19 10	156 9 0	..	5,287 11 9
Rodney	68 10 11	660 19 0	729 9 11	..	6,517 18 9
Shepparton	1 1 0	195 15 5	196 16 5	..	9,360 13 8
Tongala-Stanhope	34 6 0	183 9 4	217 15 4	..	4,386 4 3
Werribee .. .. .	..	44 11 9	44 11 9	..	..
Woorinen .. .. .	..	33 16 6	33 16 6	..	3,286 19 8
<i>Proposed Drainage Districts.</i>					
Dingee .. .. .	..	..	..	..	788 17 5
Nyah .. .. .	..	..	..	..	8,279 18 4
Tresco .. .. .	..	..	..	..	2,307 17 6
<i>Waterworks Trusts and Local Governing Bodies</i> ..	15,926 12 6	45,729 13 5	61,656 5 11	..	..
<i>Miscellaneous</i>					
Carrum .. .. .	..	..	..	..	361 2 10*
Huntly Shire .. .. .	..	..	..	..	300 0 0*
River Improvements .. .. .	..	..	..	..	3,702 3 6
Totals	59,122 3 4	355,947 8 6	415,069 11 10	56,299 15 1	218,141 3 11‡

* Included in amount of £848 2s. 2d. from Unemployment Relief (Taxation) Fund.

† Exclusive of £7,013 9s. 9d. expended on Capital Works from Commonwealth Unemployment Relief Funds (Commonwealth Defence Works Unemployment Relief Account).

SUMMARY.

	£	s.	d.
Ordinary Loan Funds (Acts 4655 and 4771)	415,069	11	10
Treasurer's Advance	56,299	15	1
Unemployment Relief Funds	218,141	3	11‡
Total Capital Expenditure from State Funds	689,510	10	10
Other Expenditure N.E.I. on account of Commonwealth (Unemployment Relief Fund)	36,756	0	6
Total	726,266	11	4

‡ Exclusive of credit of £10,000 adjusting expenditure incurred in former years, Merbein Drainage.

WORKS UNDER CONTROL OF COMMISSION.

A.—FREE HEADWORKS.

B.—CAPITAL WORKS AND CHARGES NOT APPORTIONABLE TO DISTRICTS.

Plant and Machinery Suspense

C.—HEADWORKS (EXCLUSIVE OF FREE HEADWORKS).

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

Goulburn and Loddon Storages (exclusive of Free Headworks)—				£	s.	d.	£	s.	d.
Investigations ..	..	..	..	6,534	7	4			
Eildon Reservoir ..	..	..	..	1,886,705	14	5			
Waranga Reservoir Enlargement ..	..	..	..	609,445	15	1			
Laanecoorie Weir Improvements ..	..	..	..	2,509	9	3	2,505,195	6	1
Goulburn Main Channels—									
East Goulburn Main ..	..	..	..	363,963	11	1			
Goulburn-Waranga ..	..	..	..	6,922	8	4			
Waranga-Western Main ..	..	..	..	1,047,469	10	0			
Main Distributaries ..	..	..	..	10,635	13	0	1,428,991	2	5
Total Goulburn and Loddon Works (exclusive of Free Headworks)				..	..	..	3,934,186	8	6
<i>Less Debited to Wimmera-Mallee</i>				..	..	..	99,781	10	6
Bacchus Marsh and Werribee Schemes—									
Ballan Tunnel ..	..	..	..	..	..	..	21,677	14	8
Pykes Creek Reservoir ..	..	..	..	..	..	..	142,248	5	6
Melton Reservoir ..	..	..	..	..	..	..	99,571	7	8
Lerderderg River Flats ..	..	..	..	..	..	..	330	0	8
Bellarine Peninsula Waterworks District (exclusive of cost of Urban Reticulation, £41,222 12s. 6d.)				..	..	..	465,309	10	4
<i>Less Redemption paid to Revenue</i>				..	..	..	621	2	3
Mornington Peninsula Waterworks District (exclusive of cost of Distributary Works and Urban Reticulation, £293,338 17s. 8d.)				..	..	..	970,375	2	7
<i>Less Redemption paid to Revenue</i>				..	..	..	313	6	1
Maffra-Sale Scheme—Glenmaggie Reservoir				..	..	..	..
River Murray Agreement Works (Victorian Contributions under River Murray Waters Acts)	..	..	..	..	..	..	..
River Murray State Works—Surveys, &c. ..	..	..	..	..	..	..	..
Otway Waterworks District (under Construction) (exclusive of cost of Urban Reticulation, £88,917 10s. 11d.)	..	..	..	..	..	..	..
Wimmera-Mallee—									
Main Channels and Storages inclusive of £99,781 10s. 6d. from Goulburn Works	..	..	..	..	..	..	948,050	12	1
Glencelg River Development Works (Under Construction, Not Apportioned to Districts)	..	..	..	102,441	17	1			
<i>Less Treasurer's Advance</i>	..	..	..	52,319	10	2	50,122	6	11
Total									
							3,834,404	18	0
							263,827	8	6
							464,688	8	1
							970,061	16	6
							678,356	4	6
							2,977,745	13	8
							7,506	18	7
							252,628	18	9
							998,172	19	0
							10,447,383	5	7
							13,043,660	17	3
							Carried forward ..		

LOAN CAPITAL LIABILITY—continued.

Net Loan Capital
Liability at
30th June, 1941.

£ s. d.
13,043,660 17 3

Name of District.	Loan Liability (Including Treasurer's Advance, £3,980 4s. 11d.).						Allotted to District.	Capital Expenditure Borne by the State Account.						Brought forward ..							
	Headworks.			Distributory Works.				Headworks.			Distributory Works.				Total.						
	£	s.	d.	£	s.	d.		£	s.	d.	£	s.	d.								
D.—IRRIGATION AND WATER SUPPLY DISTRICTS.																					
1. Bacchus Marsh ..	82,771	17	6	96,240	4	7	179,012	2	1	72,229	16	3	82,291	10	10	24,490	15	0	106,782	5	10
2. Boort ..	170,146	0	0	79,546	3	5	249,692	3	5	14,237	15	10	170,145	0	0	65,309	7	7	235,454	7	7
3. Calivil ..	81,583	0	0	112,954	13	3	194,537	13	3	8,900	12	7	81,582	0	0	104,055	0	8	185,637	0	8
4. Campaspe ..	5,027	0	0	12,273	15	8	17,300	15	8	..	..	..	5,027	0	0	12,273	15	8	17,300	15	8
5. Cohuna ..	430,019	0	0	284,383	12	4	714,402	12	4	192,661	13	6	430,019	0	0	91,721	18	10	521,740	18	10
6. Deakin ..	36,890	6	11	58,314	5	11	95,204	12	10	28,560	10	0	36,890	6	11	29,753	15	11	66,644	2	10
7. Dingee ..	58,228	0	0	15,431	5	2	73,659	5	2	11,228	0	3	58,228	0	0	4,203	4	11	62,431	4	11
8. Dry Lake ..	1,978	0	0	718	16	9	2,696	16	9	718	16	9	1,978	0	0	..	..	..	1,978	0	0
9. Fish Point ..	21,613	0	0	15,801	2	4	37,414	2	4	..	..	..	21,613	0	0	15,801	2	4	37,414	2	4
10. Katandra ..	74,978	0	0	105,609	7	0	180,587	7	0	14,623	5	4	74,977	0	0	90,987	1	8	165,964	1	8
11. Kerang ..	248,447	0	0	127,303	8	7	375,750	8	7	62,268	6	5	248,447	0	0	65,035	2	2	313,482	2	2
12. Koondrook ..	246,789	0	0	217,676	5	6	464,465	5	6	86,133	10	8	245,136	0	0	133,195	14	10	378,331	14	10
13. Leitchville ..	68,311	8	1	42,660	13	7	110,972	1	8	38,734	18	1	68,311	8	1	3,925	15	6	72,237	3	7
14. Maffra-Sale ..	678,356	4	6	578,483	0	3	1,256,839	4	9	158,407	9	11	678,351	4	4	420,080	10	6	1,098,431	14	10
15. Merbein ..	194,911	0	0	259,935	19	0	454,846	19	0	52,292	19	6	194,911	0	0	207,642	19	6	402,553	19	6
16. Mystic Park ..	39,248	19	8	17,564	18	3	56,813	17	11	6,707	8	1	39,248	19	8	10,857	10	2	50,106	9	10
17. North Shepparton ..	158,250	0	0	199,965	14	2	358,215	14	2	70,108	16	2	158,249	0	0	129,857	18	0	288,106	18	0
18. Nyah ..	74,533	0	0	129,103	1	9	203,636	1	9	4,397	4	1	74,533	0	0	124,705	17	8	199,238	17	8
19. Red Cliffs ..	281,924	0	0	791,633	7	5	1,073,557	7	5	45,959	8	10	281,924	0	0	745,673	18	7	1,027,597	18	7
20. Rochester ..	844,138	11	3	339,252	4	11	1,183,390	16	2	193,042	6	4	844,133	11	3	146,214	18	7	990,348	9	10
21. Rodney ..	907,483	12	9	576,951	18	6	1,484,435	11	3	155,003	10	10	907,477	12	9	421,954	7	8	1,329,432	0	5
22. Shepparton ..	287,181	0	0	197,324	7	2	484,505	7	2	71,002	1	10	287,179	0	0	126,324	5	4	413,503	5	4
23. South Shepparton ..	58,885	19	10	59,583	11	11	118,469	11	9	17,582	5	7	58,885	19	10	42,001	6	4	100,887	6	2
24. Swan Hill ..	292,165	0	0	184,984	10	6	477,149	10	6	68,318	8	7	292,165	0	0	116,666	1	11	408,831	1	11
25. Third Lake ..	25,526	0	0	25,256	0	9	50,782	0	9	4,634	18	4	25,526	0	0	20,621	2	5	46,147	2	5
26. Tongala-Stanhope ..	644,434	0	0	295,657	14	1	940,091	14	1	145,664	0	10	644,430	10	0	149,997	3	3	794,427	13	3
27. Tragowel Plains ..	507,179	7	3	258,962	11	5	766,141	18	8	116,025	8	3	507,176	7	3	142,940	3	2	650,116	10	5
28. Tresco ..	25,848	0	0	90,822	6	0	116,670	6	0	..	..	..	25,848	0	0	90,822	6	0	116,670	6	0
29. Werribee ..	181,055	11	0	119,212	4	3	300,267	15	3	118,721	18	6	181,019	11	4	526	5	5	181,545	16	9
30. Murray Valley ..	6,727,901	18	9	5,293,607	4	5	12,021,509	3	2	1,758,165	11	4	6,725,704	2	3	3,537,639	9	7	10,263,343	11	10
Under Construction— Murray Valley ..	893,403	4	6	450,876	3	3	1,344,279	7	9	27,112	9	0	893,403	4	6	423,763	14	3	1,317,166	18	9
Totals ..	7,621,305	3	3	5,744,483	7	8	13,365,788	10	11	1,785,278	0	4	7,619,107	6	9	3,961,403	3	10	11,580,510	10	7
Less Treasurer's Advance ..	..	..	..	3,980	4	11	3,980	4	11	..	..	..	..	..	..	3,980	4	11	3,980	4	11
Loan Liability ..	7,621,305	3	3	5,740,503	2	9	13,361,808	6	0	1,785,278	0	4	7,619,107	6	9	3,957,422	18	11	11,576,530	5	8

Under Construction—

Totals ..

Less Treasurer's Advance ..

Loan Liability ..

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

1. Bacchus Marsh	..	14,004 11 9	14,004 11 9	10,882 15 4	..	3,121 16 5	3,121 16 5
2. Cohuna ..	..	9,032 4 7	9,032 4 7	9,008 11 6	..	23 13 1	23 13 1
3. Corop ..	..	231 15 6	231 15 6	..	..	231 15 6	231 15 6
4. Dingee ..	..	1,452 4 5	1,452 4 5	..	..	1,452 4 5	1,452 4 5
5. Heyfield ..	..	12,244 18 4	12,244 18 4	..	..	12,244 18 4	12,244 18 4
6. Leitchville ..	..	3,909 10 5	3,909 10 5	1,470 10 5	..	2,439 0 0	2,439 0 0
7. Lockington ..	..	2,269 12 8	2,269 12 8	2,269 12 8	..	..	..
8. Murrabit ..	..	1,024 19 11	1,024 19 11	..	..	1,024 19 11	1,024 19 11
9. Red Cliffs ..	..	16,526 18 11	16,526 18 11	1,450 5 0	..	..	..
10. Stanhope ..	..	1,450 5 0	1,450 5 0	..	..	..	..
Totals, Loan Liability	..	62,147 1 6	62,147 1 6	41,608 13 10	..	20,538 7 8	20,538 7 8

62,147 1 6

F.—WATERWORKS DISTRICTS.

1. Axe Creek	..	4,894 0 0	4,894 0 0	3,129 0 0	..	1,765 0 0	1,765 0 0
2. Bellarine Peninsula	..	292,500 9 11	292,500 9 11	82,408 18 2	..	210,091 11 9	210,091 11 9
3. Birchip ..	..	103,151 7 1	141,365 5 1	25,446 10 0	..	77,705 17 1	115,918 15 1
4. Carwarp ..	..	41,411 9 11	41,411 9 11	..	..	41,411 9 11	41,411 9 11
5. Carwarp Central	..	2,353 10 2	2,353 10 2	..	..	2,353 10 2	2,353 10 2
6. Coreena ..	..	46,081 11 10	46,081 11 10	..	..	46,081 11 10	46,081 11 10
7. Harcourt ..	..	17,106 10 9	17,106 10 9	15,412 10 9	..	1,694 0 0	1,694 0 0
8. Hindmarsh ..	..	4,126 10 8	19,617 19 9	5,854 6 7	..	9,637 2 6	13,763 13 2
9. Karkaroc ..	..	96,286 18 2	315,944 9 9	1,136 6 11	..	219,195 2 10	314,808 2 10
10. Kerang North-west Lakes	..	..	3,057 5 8	..	..	3,057 5 8	3,057 5 8
11. Long Lake ..	..	63,627 0 0	170,425 14 10	8,580 6 10	..	98,401 8 0	161,845 8 0
12. Millewa ..	..	103,940 0 0	483,481 5 2	..	..	379,541 5 2	483,481 5 2
13. Millewa Central	..	36,596 0 0	170,488 0 0	..	..	133,892 0 0	170,488 0 0
14. Mornington Peninsula	..	312,026 7 1	322,307 7 4	62,352 16 2	..	10,280 10 3	259,954 11 2
15. Newstead ..	..	..	4,636 6 10	..	..	4,636 6 10	4,636 6 10
16. Normanville ..	..	..	20,115 12 7	20,034 1 11	..	81 10 8	81 10 8
17. Otway ..	..	186,624 18 9	186,624 18 9	91,892 0 9	..	94,732 18 0	94,732 18 0
18. Sea Lake ..	..	46,500 0 0	190,436 19 9	10 6 5	..	143,927 13 4	190,426 13 4
19. Tyntynder ..	..	118,127 0 0	375,451 4 9	616 10 5	..	257,047 14 4	374,834 14 4
20. Tyrell ..	..	84,443 0 0	250,062 15 3	2 0 0	..	165,619 15 3	250,060 15 3
21. Tyrell West ..	..	148,344 0 0	427,778 10 10	3 10 0	..	279,434 0 10	427,775 0 10
22. Upper Western Wimmera	..	28,053 18 2	85,919 10 9	1 19 8	..	57,864 12 7	85,917 11 1
23. Upper Wimmera United	..	44,097 0 0	120,283 5 10	63,842 19 10	..	12,344 6 0	56,440 6 0
24. Walpeup West ..	..	..	35,841 16 6	..	..	35,841 16 6	35,841 16 6
25. Werribee ..	..	..	11,544 5 0	4,074 4 8	..	7,470 0 4	7,470 0 4
26. Western Wimmera	..	115,628 6 9	352,041 13 4	157,891 4 9	..	78,524 1 10	194,150 8 7
27. Wimmera United ..	..	97,205 2 8	274,729 4 3	261,582 13 8	..	85 0 3	13,146 10 7
28. Wycheproof ..	..	63,397 17 8	167,148 16 5	77,847 8 8	..	89,302 7 9	152,699 5 5
29. Yelta ..	..	..	6,152 7 2	..	..	6,152 7 2	6,152 7 2
Totals, Loan Liability	..	1,879,738 7 10	4,603,200 5 10	882,119 16 2	1,557,732 12 7	2,163,347 17 1	3,721,080 9 8
	..	2,723,461 18 0	..	..	..	..	2,723,461 18 0
	..	..	..	..	..	..	21,569,772 19 6

Carried forward

LOAN CAPITAL LIABILITY—continued.

Net Loan Capital
Liability at
30th June, 1941.

£ s. d.
21,569,772 19 6

Name of District.	Loan Liability.			Total.	Allotted to District.			Capital Expenditure Borne by the State Account.		
	Headworks.		Distributory Works.		Total.	Headworks.		Distributory Works.	Total.	
	£	s. d.				£	s. d.			£
G.—URBAN DISTRICTS OF WATERWORKS DISTRICTS.										
1. Allansford ..	..	..	1 1 10	18,529 5 8	1 1 10	1 1 10	8,758 4 3	9,654 11 5	18,412 15 8
2. Anglesea ..	8,788 12 0	9,740 13 8	706 8 5	706 8 5	706 8 5	706 8 5	..	..	..
3. Antwerp ..	..	706 8 5	..	..	..	..	..	..	..
4. Barwon Heads and Ocean Grove ..	32,638 6 5	7,174 16 2	39,813 2 7	39,813 2 7	39,813 2 7	39,813 2 7	19,327 2 2	..	19,327 2 2	
5. Berriwillock ..	..	5,198 6 3	5,198 6 3	5,198 6 3	5,198 6 3	5,198 6 3	..	3,252 19 6	3,252 19 6
6. Berwick ..	13,733 4 8	8,680 11 6	22,413 16 2	22,413 16 2	22,413 16 2	22,413 16 2	13,729 4 8	1,643 15 7	15,373 0 3	
7. Beulah ..	..	7,608 8 5	7,608 8 5	7,608 8 5	7,608 8 5	7,608 8 5	..	7,571 4 5	7,571 4 5
8. Birchip ..	..	12,498 19 5	12,498 19 5	12,498 19 5	12,498 19 5	12,498 19 5	..	10,814 4 2	10,814 4 2
9. Bittern ..	1,671 1 8	1,207 0 0	2,878 1 8	2,878 1 8	2,878 1 8	2,878 1 8	1,671 1 8	1,207 0 0	2,878 1 8	
10. Brim ..	..	3,539 7 10	3,539 7 10	3,539 7 10	3,539 7 10	3,539 7 10	..	1,571 0 10	1,571 0 10
11. Bunyip ..	5,382 2 7	5,900 13 9	11,282 16 4	11,282 16 4	11,282 16 4	11,282 16 4	5,380 19 7	5,719 11 6	11,100 11 1	
12. Camperdown ..	30,469 0 0	48,698 13 3	79,167 13 3	79,167 13 3	79,167 13 3	79,167 13 3	..	..	..
13. Carrum ..	170,688 16 9	43,732 7 8	214,421 4 5	214,421 4 5	214,421 4 5	214,421 4 5	170,537 5 4	1,806 4 11	172,343 10 3	
14. Carwarp ..	..	633 3 6	633 3 6	633 3 6	633 3 6	633 3 6	..	633 3 6	633 3 6
15. Chillingollah ..	..	2,477 14 6	2,477 14 6	2,477 14 6	2,477 14 6	2,477 14 6	..	2,054 0 0	2,054 0 0
16. Chinkapook ..	..	2,551 11 7	2,551 11 7	2,551 11 7	2,551 11 7	2,551 11 7	..	2,551 11 7	2,551 11 7
17. Cobden ..	6,213 0 0	15,170 1 6	21,383 1 6	21,383 1 6	21,383 1 6	21,383 1 6	..	..	..
18. Coliban ..	..	1,662,575 15 4	1,662,575 15 4	1,662,575 15 4	1,662,575 15 4	1,662,575 15 4	..	1,277,238 9 6	1,277,238 9 6
19. Cranbourne ..	6,614 0 11	2,762 18 4	9,376 19 3	9,376 19 3	9,376 19 3	9,376 19 3	5,822 11 7	5,822 11 7	5,822 11 7	
20. Crib Point ..	8,766 18 0	2,980 2 1	11,747 0 1	11,747 0 1	11,747 0 1	11,747 0 1	5,275 18 0	5,275 18 0	5,275 18 0	
21. Culgoa ..	..	4,442 0 11	4,442 0 11	4,442 0 11	4,442 0 11	4,442 0 11	..	371 14 0	371 14 0
22. Dandenong ..	95,869 19 5	40,523 4 11	136,393 4 4	136,393 4 4	136,393 4 4	136,393 4 4	94,269 13 8	687 7 9	94,957 1 5	
23. Dimboola ..	..	17,860 7 10	17,860 7 10	17,860 7 10	17,860 7 10	17,860 7 10	..	..	..
24. Doon ..	..	681 4 0	681 4 0	681 4 0	681 4 0	681 4 0	..	681 4 0	681 4 0
25. Dromana-Portsea ..	82,504 11 4	64,791 15 3	147,296 6 7	147,296 6 7	147,296 6 7	147,296 6 7	18,365 13 6	50,536 6 2	68,901 19 8	
26. Drysdale ..	11,480 4 6	2,157 8 10	13,637 13 4	13,637 13 4	13,637 13 4	13,637 13 4	11,439 4 6	1,343 2 3	12,782 6 9	
27. Frankston ..	92,887 19 10	16,308 10 5	109,196 10 3	109,196 10 3	109,196 10 3	109,196 10 3	14,966 4 4	8 12 3	14,974 16 7	
28. Garfield ..	4,188 16 4	4,546 14 3	8,735 10 7	8,735 10 7	8,735 10 7	8,735 10 7	4,187 16 4	3,574 10 0	7,762 6 4	
29. Hastings ..	7,403 4 5	6,339 19 5	13,743 3 10	13,743 3 10	13,743 3 10	13,743 3 10	7,401 4 5	5,315 11 8	12,716 16 1	
30. Hicksborough ..	..	988 5 7	988 5 7	988 5 7	988 5 7	988 5 7	..	659 2 9	659 2 9
31. Hopetoun ..	..	10,351 17 11	10,351 17 11	10,351 17 11	10,351 17 11	10,351 17 11	..	8,363 19 5	8,363 19 5
32. Jeparit ..	..	13,351 18 10	13,351 18 10	13,351 18 10	13,351 18 10	13,351 18 10	..	..	..
33. Jung Jung ..	..	3,385 12 4	3,385 12 4	3,385 12 4	3,385 12 4	3,385 12 4	..	3,382 3 2	3,382 3 2
34. Koondrook ..	..	5,689 0 6	5,689 0 6	5,689 0 6	5,689 0 6	5,689 0 6	..	5,630 4 6	5,630 4 6
35. Lake Boga ..	..	5,481 8 8	5,481 8 8	5,481 8 8	5,481 8 8	5,481 8 8	..	5,481 8 8	5,481 8 8
36. Lalbert ..	..	4,666 14 9	4,666 14 9	4,666 14 9	4,666 14 9	4,666 14 9	..	3,133 0 0	3,133 0 0
37. Lascelles ..	..	4,263 19 10	4,263 19 10	4,263 19 10	4,263 19 10	4,263 19 10	..	4,263 19 10	4,263 19 10
38. Longwarry ..	6,740 15 11	5,012 11 6	11,753 7 5	11,753 7 5	11,753 7 5	11,753 7 5	..	..	..
39. Manangatang ..	..	5,177 6 2	5,177 6 2	5,177 6 2	5,177 6 2	5,177 6 2	..	..	..
40. Marnoo ..	..	4,063 2 3	4,063 2 3	4,063 2 3	4,063 2 3	4,063 2 3	..	949 0 0	949 0 0

41. Marong ..	..	2,100	0	0	2,100	0	0	1,129	0	0	..	..	971	0	0	971	0	0
42. Merbein ..	..	18,601	7	0	18,601	7	0	16,585	9	6	..	..	2,015	17	6	2,015	17	6
43. Meringur ..	..	1,752	13	0	1,752	13	0	..	..	..	..	..	1,752	13	0	1,752	13	0
44. Minyip ..	..	10,277	7	2	10,277	7	2	10,277	7	2	..	..	..	..	..	..	..	..
45. Mornington ..	43,097	2	5	16,404	11	8	59,501	14	1	43,039	18	4	16,461	15	9	16,461	15	9	
46. Mount Martha ..	4,858	6	2	9,685	16	10	14,544	3	0	14,537	11	8	2	18	2	..	6	11	
47. Nandaly ..	..	..	..	1,749	13	11	1,749	13	11	..	..	..	..	..	..	1,749	13	11
48. Natinuk ..	..	..	..	4,927	16	2	4,927	16	2	..	..	..	..	..	..	954	10	11
49. Newstead ..	..	..	..	7,563	9	0	7,563	9	0	3,973	5	3	..	..	..	1,691	15	7
50. North Wonthaggi ..	..	..	..	4,152	8	8	4,152	8	8	5,871	13	5	..	..	..	2,960	10	0
51. Nullawil ..	..	..	..	3,673	16	2	3,673	16	2	1,191	18	8	..	..	..	2,159	0	0
52. Nyah ..	..	..	..	415	14	6	415	14	6	1,514	16	2	..	..	..	2,159	0	0
53. Nyah West ..	..	..	..	5,786	12	10	5,786	12	10	240	2	10	..	..	..	175	11	8
54. Ouyen ..	..	..	..	20,984	6	9	20,984	6	9	94	5	10	..	..	..	5,692	7	0
55. Pakenham ..	10,542	18	9	7,900	15	1	18,443	13	10	5,980	9	11	..	..	..	15,003	16	10
56. Patchewollock ..	..	..	..	3,645	10	8	3,645	10	8	14,677	15	1	3,765	18	9	3,765	18	9
57. Piangil ..	..	..	..	6,097	9	0	6,097	9	0	16	11	5	..	..	..	3,628	19	0
58. Portarlington ..	..	..	..	2,543	9	6	25,700	2	9	220	13	4	..	..	..	6,042	13	7
59. Pyramid Hill ..	23,156	13	3	5,017	9	4	5,017	9	4	5,017	9	4	23,073	13	3	2,405	16	2	
60. Quambatook ..	..	..	..	4,863	5	1	4,863	5	1	..	..	..	..	..	..	1,682	5	7
61. Queenscliff and Point Lonsdale ..	74,027	10	9	9,757	15	10	83,785	6	7	39,368	1	9	44,417	4	10	44,417	4	10	
62. Rainbow ..	..	..	..	11,512	16	0	11,512	16	0	11,512	16	0	..	..	..	865	2	10
63. Rupyanyup ..	..	..	..	10,775	15	9	10,775	15	9	9,910	12	11	..	..	..	..	..	..
64. Sea Lake ..	..	..	..	7,771	6	8	7,771	6	8	7,771	6	8	..	..	..	..	..	..
65. Somerville ..	3,333	10	8	2,745	13	8	6,079	4	4	6,079	4	4	..	..	..	..	..	..
66. South Frankston ..	21,744	19	9	15,574	17	2	37,319	16	11	37,318	1	2	1	15	9	..	..	..
67. Speed ..	..	..	..	2,838	2	3	2,838	2	3	..	..	..	..	..	..	2,838	2	3
68. Spring Vale ..	..	..	..	27,959	13	11	105,966	11	7	105,958	11	7	..	..	..	8	2	2
69. Tempy ..	..	..	..	2,624	18	2	2,624	18	2	..	..	..	..	..	..	2,624	18	2
70. Terang ..	29,322	0	0	25,048	16	2	54,370	16	2	54,370	16	2	..	..	..	..	..	..
71. Torquay ..	22,096	11	3	9,848	8	6	31,944	19	9	3,237	6	0	22,018	11	3	6,689	2	6	
72. Ultima ..	..	..	..	6,565	11	8	6,565	11	8	..	..	..	..	..	..	6,565	11	8
73. Waitechie ..	..	..	..	2,514	10	6	2,514	10	6	..	..	..	..	..	..	2,514	10	6
74. Walpeup ..	..	..	..	2,012	10	0	2,012	10	0	25	6	9	..	..	..	1,987	3	3
75. Watchem ..	..	..	..	5,120	16	8	5,120	16	8	2,773	11	7	..	..	..	2,347	5	1
76. Werimull ..	..	..	..	4,840	10	0	4,840	10	0	..	..	..	..	..	..	4,840	10	0
77. Wonthaggi ..	..	..	..	67,622	12	8	67,622	12	8	15,895	16	8	..	..	..	51,726	16	0
78. Woomelang ..	..	..	..	9,286	7	1	9,286	7	1	2,941	7	6	..	..	..	6,344	19	7
79. Woorinen ..	..	..	..	1,993	5	0	1,993	5	0	1,316	13	7	..	..	..	676	11	5
80. Wycheproof ..	..	..	..	10,962	10	7	10,962	10	7	744	8	6	..	..	..	10,218	2	1
81. Yaapect ..	..	..	..	2,298	13	8	2,298	13	8	12	7	0	..	..	..	2,286	6	8
Totals, Loan Liability ..	896,227	7	7	2,441,741	3	5	3,337,968	11	0	1,275,571	17	10	490,874	1	9	1,571,522	11	5	
																2,062,396	13	2	
																	2,441,741	3	5

H.—FLOOD PROTECTION DISTRICTS.																			
1. Cardinia ..	..	104,716	4	1	104,716	4	1	..	..	104,716	4	1	104,716	4	1	
2. Kanyapella ..	..	3,910	18	8	3,910	18	8	3,410	18	8	..	..	500	0	0	
3. Kooweerup Lower ..	..	241,745	5	0	241,745	5	0	..	..	241,745	5	0	241,745	5	0	
4. Loch Garry ..	..	19,901	17	7	19,901	17	7	7,611	4	11	..	..	12,290	12	8	
Totals, Loan Liability ..	..	370,274	5	4	370,274	5	4	11,022	3	7	..	..	359,252	1	9	
													Carried forward						
																24,381,788	8	3	
																	370,274	5	4

H.—FLOOD PROTECTION DISTRICTS.

1. Cardinia ..	..	104,716	4	1	104,716	4	1	..	..	..	..	104,716	4	1	104,716	4	1
2. Kanyapella ..	..	3,910	18	8	3,910	18	8	3,410	18	8	..	500	0	0	500	0	0
3. Kooweerup Lower ..	..	241,745	5	0	241,745	5	0	..	..	..	..	241,745	5	0	241,745	5	0
4. Loch Garry ..	..	19,901	17	7	19,901	17	7	7,611	4	11	..	12,290	12	8	12,290	12	8
Totals, Loan Liability ..	..	370,274	5	4	370,274	5	4	11,022	3	7	..	359,252	1	9	359,252	1	9
											</						

LOAN CAPITAL LIABILITY—continued.

Name of District.	Loan Liability.			Allotted to District.	Capital Expenditure Borne by the State Account.			Brought forward ..		
	Headworks.	Distributary Works.			Total.	Headworks.	Distributary Works.		Total.	
		£	s.				d.			£
	£	s.	d.	£	s.	d.	£	s.	d.	
I.—DRAINAGE DISTRICTS.										
EXPENDITURE IN RESPECT TO ACQUISITION OF LAND FOR DRAINAGE WORKS. CONSTRUCTION CARRIED OUT FROM UNEMPLOYMENT RELIEF LOAN FUNDS.										
1. Cohuna	1,333	7 4	..	..	1,333	7 4	1,333	7 4	
2. Kerang East	127	13 3	..	..	127	13 3	127	13 3	
3. Mafra-Sale	253	14 11	..	..	253	14 11	253	14 11	
4. Merbein	312	7 4	..	..	312	7 4	312	7 4	
5. Red Cliffs	166	3 4	..	..	166	3 4	166	3 4	
6. Rochester	1,154	5 8	..	..	1,154	5 8	1,154	5 8	
7. Rodney	2,040	10 0	..	..	2,040	10 0	2,040	10 0	
8. Shepparton	871	11 6	..	..	871	11 6	871	11 6	
9. Tongala-Stanhope	985	5 7	..	..	985	5 7	985	5 7	
10. Werribee	57	13 11	..	..	57	13 11	57	13 11	
11. Woorinen	49	13 6	..	..	49	13 6	49	13 6	
Totals, Loan Liability	7,352	6 4	..	..	7,352	6 4	7,352	6 4	
Totals, Commission's Districts (Statements D, E, F, G, H, and I.)										
	*	10,387,270	18 8	11,345,479	17 4	21,742,750	16 0	3,985,800	11 9	
						9,987,714	1 1	8,079,436	3 2	
								17,747,150	4 3	

* Exclusive of Plant and Machinery Suspense Account \$81,147 4s. 3d. borne by Districts and Works (Statement B) and Glenalg River Development Works not apportioned to Districts.

Exclusive of Plant and Machinery Suspense Account \$31,147 4a. 3d. borne by Districts and Works (Statement B) and Glenelg River Development Works not apportioned to Districts.

**Total Loan Liability on which Interest is payable by Trusts and Local Bodies . . .
Amounts Written Off (Acts Nos. 1925, 1951, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 26**

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

SUMMARY STATEMENT OF LOAN LIABILITY AS AT 30th JUNE, 1941.

Reference to Preceding Statements.	Works.	Total Loan Capital Expenditure.			Deduct Redemption Paid.			Net Loan Capital Liability.			At Debit of Authorities and Borne by Districts.			Capital Expenditure Borne by the State.		
		£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
A	Free Headworks	1,227,886	0	11	510	18	0	1,227,375	2	11	..	..	..	1,227,375	2	11
B	Capital Works and Charges not Apportionable to Districts ..	1,692,655	14	11	323,763	6	2	1,368,892	8	9	61,147	4	3	1,307,745	4	6
C	Headworks Costs in respect of Irrigation and Water Supply Districts and Waterworks Districts ..	10,529,518	15	11	82,125	10	4	10,447,393	5	7	729,556	17	7	9,717,836	8	0
D	Irrigation and Water Supply Districts, exclusive of Headworks Costs ..	5,829,500	4	2	88,997	1	5	5,740,503	2	9	1,783,080	3	10	3,957,422	18	11
E	Urban Divisions of Irrigation Districts ..	63,654	11	7	1,507	10	1	62,147	1	6	41,608	13	10	20,538	7	8
F	Waterworks Districts, exclusive of Headworks Costs ..	2,769,424	9	9	45,962	11	9	2,723,461	18	0	560,114	0	11	2,163,347	17	1
G	Urban Districts of Waterworks Districts, exclusive of Headworks Costs ..	2,477,532	7	1	35,791	3	8	2,441,741	3	5	870,218	12	0	1,571,522	11	5
H	Flood Protection Districts ..	376,773	3	7	6,498	18	3	370,274	5	4	11,022	3	7	359,252	1	9
I	Drainage Districts ..	7,352	6	4	..	..	..	7,352	6	4	..	..	..	7,352	6	4
J	Waterworks Trusts and Local Governing Bodies ..	3,905,917	1	9	675,819	4	10	3,230,097	16	11	1,986,736	1	3	1,243,361	15	8
		28,880,214	16	0	1,260,976	4	6	27,619,238	11	6	6,043,483	17	3	21,575,754	14	3
	Deduct National Debt Sinking Fund not credited to Districts and Works ..	..	..	..	1,843,309	8	11									
	Less Redemption paid by Districts, Waterworks Trusts &c. and credited by Treasury to Revenue				283,739	14	9	1,559,569	14	2						
	Net Loan Liability of State for Works of Country Water Supply (Exclusive of £122,147 15s. 5d. cash in hand held by Treasury)	..	..	..	..	..	..	26,059,668	17	4						

ESTIMATES 1941-42.

PROPOSED DISBURSEMENTS.

	Estimated Requirements.	Amount provided in Budget.
	£	£
Coliban Works	8,647	6,446
Free Headworks	11,051	8,896
Irrigation Districts	96,757	88,725
Waterworks Districts	162,544	143,904
Flood Protection Districts	5,484	4,427
Drainage Districts	13,827	13,827
Salaries of Permanent and Temporary Employees*	195,100	190,548
General Expenditure*	34,520	34,520
River Murray Works—Contribution by State	14,150	14,150
Pay-Roll Tax	9,557	9,557
	<hr/> 551,637	<hr/> 515,000

* To be apportioned over the above Districts.

ESTIMATED RECEIPTS.

	£
Coliban Works	46,000
Waterworks Districts	230,000
Irrigation Districts	285,000
Flood Protection and Drainage Districts	23,000
Other	18,000
	<hr/> 602,000
Estimated amount available to meet Interest on basis of Budget provision	87,000
Add estimated Revenues from Other Authorities—	
Waterworks Trusts	60,300
Local Bodies	24,000
	<hr/> 84,300
Total Estimated amount available from Revenues of all Authorities to meet Interest	<hr/> 171,300

APPENDIX A.

STATE RIVERS AND WATER SUPPLY COMMISSION.

SCHEDULE OF UNEMPLOYMENT RELIEF GRANTS TO 30TH JUNE, 1941.

Since the commencement of Relief Works on 1st June, 1930, a total amount of £3,264,174 has been made available to this Commission from Unemployment Relief Funds for expenditure on works providing employment in country districts. Of this amount £166,035 was allocated prior to the constitution of the Employment Council in July, 1932. Details of all grants to 30th June, 1940, were included as an Appendix to the Annual Report for 1939-40.

The amounts granted for separate groups of works to 30th June, 1940, and particulars of the additional grants made for the year ended 30th June, 1941, are as follow:—

GRANTS 1ST JUNE, 1930, TO 11TH JULY, 1932.

Work.	Amount.	Total.
	£	£
Headworks	39,500	
Irrigation Districts	46,500	
Waterworks Districts	59,000	
Flood Protection Districts	17,000	
Miscellaneous	4,035	
		166,035

SCHEDULE OF GRANTS 12TH JULY, 1932, TO 30TH JUNE, 1941.

Work.	Total Grants to 30th June, 1940.	Amount granted during year 1940-41.	Total Amount of Grants to 30th June, 1941.
	£	£	£
HEADWORKS.			
Wimmera-Mallee	22,800	1,000	23,800
Other Headworks	57,900	..	57,900
Total (Headworks) .. .. .	..	..	81,700
IRRIGATION DISTRICTS—WATER SUPPLY.			
Bacchus Marsh (Channel Lining)	31,350	2,300	33,650
Werribee (Channel Lining)	38,700	2,700	41,400
Other Districts	86,845	..	86,845
Total (Irrigation Supply Works) .. .. .	..	..	161,895
IRRIGATION DISTRICTS—DRAINAGE.			
Cohuna	95,780 (Including £24,280 Barr Creek Enlargement)	1,813	97,593
Swan Hill (Woorinen and Swan Hill)	59,095	2,400	691,45
Rodney	83,955	8,500	92,455
Rodney (Yambuna) .. .. .	..	1,000	1,000
Tongala-Stanhope	77,000	2,000	79,000
Nyah	6,300	13,000	19,300
Shepparton	87,575	9,500	97,075
Red Cliffs and Merbein	256,653	1,050	257,703
Dingee .. .. .	..	1,500	1,500
Rochester	76,920	4,000	80,920
Kerang (Kerang East)	77,436	3,000	80,436
Tresco	9,000	2,500	11,500
Other Districts	276,401	..	276,401
Total (Irrigation Drainage Works) .. .. .	..	..	1,156,378
WATERWORKS DISTRICTS.			
Districts (Rural)	247,025	..	247,025
Total (Rural Works) .. .. .	..	..	247,025

APPENDIX A—continued.

SCHEDULE OF GRANTS 12TH JULY, 1932, TO 30TH JUNE, 1941—continued.

Work.	Total Grants. to 30th June, 1940.	Amount granted during year 1940-41.	Total Amount of Grants to 30th June, 1941.
WATERWORKS DISTRICTS—URBAN.			
Dromana-Sorrento Extension	45,000	10,000	55,000
Bellarine Peninsula (Barwon River Tunnel)	11,500	2,000	13,500
Coliban (Channel Lining)	96,468	10,000	106,468
Duplication of Pipe Line .. .. .	..	5,000	5,000
Bendigo and Castlemaine Reticulation Improvements and Channel Lining	195,000	21,000	216,000
Lauriston Reservoir	187,000	93,000	280,000
Lascelles (Storage) .. .. .	..	250	250
Other Districts	276,060	..	276,060
Total (Urban Works) .. .. .	..	..	952,278
FLOOD PROTECTION.			
Cohuna (Gunbower Island) .. .. .	..	1,500	1,500
Other Districts	222,940	..	222,940
Total (Flood Protection Works) .. .. .	..	..	224,440
RIVER IMPROVEMENTS.			
Rivers Generally (Snagging)	60,500	5,000	65,500
Latrobe River (Improvements)	37,000	9,000 (Granted 1939-40)	46,000
Other Improvements	30,930	..	30,930
Total (River Improvements) .. .. .	..	..	142,430
GENERAL.			
Districts Generally (Noxious Weeds and Reconditioning Works)	151,000	19,007 (Cancelled 1940-41)	131,993
Total (General) .. .. .	..	..	131,993
Total of Grants from 12th July, 1932, to 30th June, 1941 .. .. .	..	..	£3,098,139
Total of Grants from 1st June, 1930 to 11th July, 1932 (Prior to constitution of Employment Council) .. .. .	..	..	£166,035
Total of Grants from 1st June, 1930, to 30th June, 1941 .. .. .	..	..	£3,264,174

TOTAL AMOUNTS GRANTED TO COMMISSION EACH YEAR SINCE 1ST JUNE, 1930

Year.	Amount.
1930-32 (Prior to constitution of Employment Council)	£ 166,035
1932-33	281,318
1933-34	313,721
1934-35	489,540
1935-36	319,582
1936-37	371,917
1937-38	422,435 (£860 cancelled 1940-41)
1938-39	412,760
1939-40	282,853 (£18,147 cancelled 1940-41)
1940-41	204,013
Total	£ 3,264,174

NOTE.—The total expenditure of Unemployment Relief Funds as from 1st June, 1930, to 30th June, 1941, was £3,196,687, the total number of men to whom employment was provided being 47,578.

APPENDIX B.

STATE RIVERS AND WATER SUPPLY COMMISSION.

RETURN OF WATER DELIVERED—YEAR 1940-41.

District.	Gross Supply at District Offtakes (excluding volumes passed to other Districts).	Total Water Rights Allotted to District.	Delivered to Water-Users in Commission's District.				Delivered to Water-Users Outside District from District Channels.	Total Quantity Delivered from District Channels.	Delivered to Water-Users Outside District from Main Channels.
			Water Rights.	Sales of Water.	Domestic and Stock Purposes.	Total Quantity Delivered in District.			
	acre feet.	acre feet.	acre feet.	acre feet.	acre feet.	acre feet.	acre feet.	acre feet.	acre feet.
GOULBURN SYSTEM—(Main Eastern Channel)—									
South Shepparton	6,994	4,404	3,880	906	29	4,765	5	4,770	..
Shepparton	31,712	21,397	17,385	371	549	18,305	72	18,377	..
North Shepparton	25,619	13,329	9,767	900	384	11,051	8	11,059	..
Katandra	7,739	7,736	6,378	462	116	6,956	..	6,956	..
Totals ..	72,064	46,466	37,360	2,639	1,078	41,077	85	41,162	..
(Waranga System.)									
Rodney	170,604	60,898	56,631	15,824	2,125	74,580	(a) 234	74,814	..
Tongala-Stanhope	89,210	47,889	47,515	7,523	188	55,226	..	55,226	..
Deakin	9,831	..	..	4,173	1,556	5,729	..	5,729	..
Rochester	133,399	57,320	57,467	25,099	3,282	85,838	..	85,838	1,343
Dingee	7,006	4,361	4,142	1,220	224	5,586	(b) 208	5,754	..
Callivil (including Loddon water)	18,061	6,548	6,180	3,363	422	9,965	..	9,965	..
Tragowel Plains (including Loddon water)	96,268	31,105	30,652	16,331	1,826	48,609	443	49,052	..
Loddon United (including Loddon water)	3,003	..	..	17	500	517	..	517	..
Boort	40,202	11,339	11,293	8,490	629	20,412	..	20,412	..
Normanville	1,292	..	..	..	367	367	..	367	..
Totals ..	568,876	219,460	213,870	82,040	10,919	306,829	885	307,714	1,343
Goulburn System Grand Totals ..	640,940	265,926	251,230	84,679	11,997	347,906	970	348,876	1,343
MURRAY SYSTEM—									
Murray Valley	23,735	13,986	5,815	12	45	5,872	..	5,872	..
Leitchville	18,056	4,258	4,258	7,405	186	11,849	(b) 26	11,875	..
Cohuna	95,036	35,631	35,631	16,093	1,254	53,578	(b) 91	53,669	..
Koondrook	76,871	23,244	22,648	8,874	943	32,465	382	32,847	..
Kerang	62,937	18,901	18,801	20,844	1,006	40,651	466	41,117	272
Third Lake	5,020	2,513	2,454	328	93	2,875	58	2,933	..
Mystic Park	7,081	2,690	2,540	742	106	3,390	646	4,036	..
Tresco	5,710	..	..	2,449	..	2,449	..	2,449	..
Fish Point	3,698	1,845	1,752	837	72	2,661	..	2,661	..
Swan Hill	57,641	21,928	21,724	14,559	..	36,283	612	36,895	..
Pental Island Private Diversions .. .. .	..	..	..	..	..	..	..	..	8,895
Kerang Private Diversions .. .. .	..	..	..	..	..	..	..	..	2,359
Kerang Lakes Private Diversions .. .. .	..	..	..	..	..	..	..	..	3,806
Upper Gunbower Creek Private Diversions .. .. .	..	..	..	..	..	..	..	..	5,679
Lower Gunbower Creek Private Diversions .. .. .	..	..	..	..	..	..	..	..	6,716
Taylor's Creek Private Diversions .. .. .	..	..	..	..	..	..	..	..	1,180
Kow Swamp Private Diversions .. .. .	..	..	..	..	..	..	..	..	4,914
Pyramid Creek Private Diversions .. .. .	..	..	..	..	..	..	..	..	2,995
Totals ..	355,785	124,996	115,625	72,743	3,706	192,073	2,281	194,354	36,316
(Pumped from River Murray)—									
Nyah	11,118	7,372	7,419	459	335	8,213	(b) 197	8,410	..
Coreena	1,458	..	..	..	1,458	1,458	..	1,458	..
Red Cliffs	44,958	28,206	26,832	244	..	27,076	(b) 262	27,328	..
Carwarp	1,750	..	..	..	1,750	..	..	1,750	..
Merbein	33,447	19,430	17,905	388	..	18,293	..	18,293	..
Yelta	460	..	..	..	460	460	..	460	..
Millewa	12,967	..	..	..	12,967	12,967	..	12,967	..
Totals ..	92,731	55,008	52,166	1,091	16,970	70,217	449	70,666	..
Murray System Grand Totals ..	440,516	180,004	167,781	73,834	20,676	262,290	2,730	265,020	36,316
CAMPASPE SYSTEM—									
Coliban .. .. .	..	..	..	2,319	5,200	7,519	..	7,519	..
Campaspe	1,406	..	..	254	127	381	(b) 20	401	..
Totals ..	1,406	..	..	2,573	5,327	7,900	20	7,920	..
WERRIBEE SYSTEM—									
Bacchus Marsh	6,422	3,332	3,063	212	95	3,370	(b) 655	4,025	..
Werribee	15,615	8,155	7,638	1,353	303	9,294	(a) 457	9,751	..
Totals ..	22,037	11,487	10,701	1,565	398	12,664	1,112	13,776	..
MACALISTER SYSTEM—									
Maffra-Sale	54,989	22,141	19,976	3,675	440	24,091	779	24,870	..
Grand Totals ..	1,181,315	479,558	449,688	166,326	38,837	654,851	5,611	660,462	37,659
									698,121

(a) Includes Waterworks Trusts.

(b) Includes Urban Districts.

APPENDIX C.
STATE RIVERS AND WATER SUPPLY COMMISSION.
STATEMENT OF WATER DELIVERED—YEARS 1921-22 TO 1940-41.

Districts.	1921-22.	1922-23.	1923-24.	1924-25.	1925-26.	1926-27.	1927-28.	1928-29.	1929-30.	1930-31.	1931-32.	1932-33.	1933-34.	1934-35.	1935-36.	1936-37.	1937-38.	1938-39.	1939-40.	1940-41.
GOULBURN SYSTEM—																				
(Main Eastern Channel.)																				
South Shepparton ..	8,901	13,488	7,435	7,825	14,962	1,656	2,150	3,394	5,730	1,973	2,664	4,293	2,240	2,582	3,100	3,298	4,942	3,369	3,359	4,770
Shepparton ..	..	..	..	..	..	13,692	11,348	16,717	20,180	12,414	14,101	15,143	13,075	11,994	16,603	16,540	21,043	16,921	16,749	18,377
North Shepparton ..	..	..	..	..	..	1,875	5,540	3,691	7,925	3,489	3,443	4,704	3,525	3,769	4,983	4,908	9,408	9,148	8,834	11,059
Katandra ..	..	..	..	..	..	..	..	5,323	8,748	6,260	5,801	6,817	5,792	3,753	3,851	4,420	6,674	5,586	5,211	6,956
Totals ..	8,901	13,488	7,435	7,825	17,234	17,153	22,038	19,125	42,583	24,136	26,009	30,957	24,632	22,098	28,323	29,211	42,067	35,024	32,153	41,162
(Waranga System.)																				
Rodney ..	38,512	56,361	38,800	42,998	55,868	59,583	59,387	61,581	92,599	45,715	51,511	68,614	46,132	56,207	61,573	66,761	89,498	51,123	62,170	74,314
Stanhope ..	..	13,475	9,558	10,305	15,168	16,623	15,137	16,971	23,134	12,338	15,467	17,811	14,695	14,635	14,938	16,241	21,226	13,908	13,908	16,241
Tongala ..	12,322	17,631	12,081	13,236	19,381	21,075	21,373	22,680	31,988	20,326	22,481	28,975	22,328	24,390	22,342	24,002	33,644	22,509	22,509	33,644
Echuca North ..	..	3,413	2,739	3,393	3,108	5,195	4,123	5,146	6,630	4,265	4,192	5,125	4,002	5,233	4,928	6,133	7,890	5,104	5,104	7,890
Deakin ..	3,346	4,063	1,874	1,452	2,495	3,071	4,051	3,743	7,568	2,458	2,352	3,089	2,304	3,768	3,478	4,537	8,279	3,471	3,471	8,279
Rochester ..	23,923	39,570	25,374	31,998	36,830	52,559	47,896	54,225	74,142	42,226	43,777	59,136	47,171	55,327	61,066	65,078	86,347	45,822	45,822	86,347
Dungee ..	3,514	4,713	3,105	4,010	4,680	6,136	4,964	5,083	6,519	3,419	3,431	4,247	3,734	3,913	4,484	4,356	5,712	3,886	4,481	5,712
Calivil (including Loddon water)	29,093	30,529	32,143	33,723	21,917	35,112	34,289	3,807	8,737	4,217	2,711	4,566	28,496	35,748	37,024	35,192	7,852	6,146	6,146	7,852
Loddon United ..	4,881	5,582	8,868	10,803	6,309	14,071	9,668	42,021	50,454	31,091	26,728	33,244	28,496	35,748	37,024	35,192	45,039	32,103	35,090	49,052
Boort ..	..	..	..	..	..	..	..	..	17,437	9,593	5,535	8,227	7,165	12,640	12,389	11,831	805	776	737	517
Normanville ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Totals ..	123,832	179,874	134,542	151,918	159,427	213,425	202,600	227,397	319,208	175,648	178,185	233,034	181,039	217,719	228,487	240,772	321,979	196,471	219,661	309,057
Goulburn—Grand Totals ..	132,793	188,835	141,977	169,743	176,661	230,578	224,638	246,522	361,791	199,784	204,194	263,991	205,671	239,817	256,810	269,983	304,046	231,495	266,157	360,219
MURRAY SYSTEM—																				
Murray Valley ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Leitchville ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cobuna ..	18,935	19,169	15,430	18,990	16,301	4,252	3,372	4,645	7,681	5,634	4,616	5,887	4,856	6,496	7,375	7,005	10,090	8,484	2,225	5,372
Gannawarra ..	16,125	19,332	13,874	17,658	15,122	18,571	18,805	21,647	30,995	24,279	22,535	25,422	21,476	23,520	41,238	40,985	52,676	45,331	44,117	11,875
Kondrook ..	10,216	14,852	8,789	12,606	11,806	15,010	17,434	19,558	24,707	15,198	12,131	19,488	13,382	15,953	23,192	20,086	30,599	26,895	22,201	82,847
Kerang ..	11,723	19,376	22,456	22,026	14,830	962	25,776	30,209	39,426	22,292	17,050	20,609	15,406	24,604	26,577	24,640	40,512	35,965	25,181	41,389
Third Lake ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mystic Park ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tresco ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Fish Point ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Swan Hill ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pental Island Private Diversion ..	15,077	18,358	12,944	18,875	16,915	20,906	22,501	26,394	30,348	..	17,503	24,156	23,608	28,563	28,056	24,751	32,000	31,310	28,871	36,595
Kerang Private Diversion ..	1,244	3,237	1,805	2,177	1,382	1,022	1,134	1,540	2,444	..	..	..	..	..	..	..	..	..	..	..
Kerang Lakes Private Diversion ..	2,081	4,802	3,900	3,842	3,344	3,544	5,031	4,309	8,028	2,943	1,511	2,406	1,809	3,637	3,118	3,018	2,793	4,198	3,294	3,306
Upper Gunbower Creek Private Diversion ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lower Gunbower Creek Private Diversion ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taylor's Creek Private Diversion ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kow Swamp Private Diversion ..	4,315	7,056	4,986	7,113	4,302	5,133	6,942	7,774	9,522	4,098	3,033	3,941	2,914	4,296	5,458	1,863	1,726	3,317	4,382	6,716
Pyramid Creek Private Diversion ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Totals ..	79,716	111,978	86,906	107,824	91,697	99,018	130,299	151,880	197,019	121,195	102,015	126,939	108,122	134,950	150,694	141,910	206,838	183,649	167,146	230,670

(Pumped from River Murray.)

Nyah ..	5,369	5,780	4,182	5,910	5,926	7,128	6,388	7,420	7,169	5,137	5,781	7,200	6,848	6,554	7,904	6,014	8,085	8,025	7,508	8,410
Coreena ..	4,357	21,151	12,445	16,821	19,780	17,449	22,715	24,379	23,524	18,900	21,122	26,907	28,252	29,183	29,077	27,033	2,131	2,744	1,017	1,458
Red Cliffs ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Carwarp ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Yerbeen ..	17,455	18,555	18,228	17,980	21,665	17,582	22,149	22,724	19,863	16,138	16,883	19,889	21,519	25,103	20,588	19,109	2,076	1,992	1,806	1,750
Yella ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Milewa ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Totals ..	27,181	45,486	34,855	40,711	47,371	42,109	51,252	54,523	50,556	40,175	43,786	53,946	56,619	60,840	81,122	72,943	76,801	73,510	69,175	70,666
Murray—Grand Totals ..	106,897	157,464	121,761	148,535	139,068	141,127	181,551	206,373	247,575	161,370	143,801	180,885	164,741	195,790	231,816	214,853	282,099	257,159	226,321	301,336
CAMPASPE SYSTEM—																				
Colliban ..	3,220	5,750	3,616	3,224	6,274	5,466	5,022	6,272	9,021	5,650	6,048	6,449	5,692	5,908	11,618	11,216	6,909	5,283	9,954	7,519
Campaspe ..	222	349	257	434	454	177	550	374	780	440	291	341	469	838	81	230	254	379	54	401
Totals ..	3,442	6,099	3,873	3,658	6,728	5,643	5,572	6,646	9,781	6,090	6,339	6,790	6,161	6,846	11,699	11,446	7,163	5,662	10,008	7,920
WERRIBEE SYSTEM—																				
Bacchus Marsh ..	4,416	5,640	3,341	4,296	5,680	5,225	1,870	5,326	4,541	4,092	4,481	5,082	4,015	4,432	5,126	5,293	5,091	1,011	5,137	4,025
Werribee ..	7,083	9,518	7,539	9,105	12,029	9,780	5,516	14,173	12,414	9,760	9,139	13,087	12,225	9,020	14,398	12,710	13,847	3,293	11,752	9,751
Totals ..	11,449	15,158	10,880	13,401	17,709	15,005	7,386	19,499	16,955	13,852	13,620	18,169	16,240	13,452	19,524	17,973	18,438	4,304	16,889	13,776
MACALISTER SYSTEM—																				
Maffra-Sale ..	..	..	..	..	2,030	5,897	3,878	9,119	14,585	8,981	14,722	21,132	9,705	4,558	10,979	17,617	21,353	29,997	23,506	24,370
Grand Totals ..	254,591	387,556	278,491	325,337	343,196	396,220	423,025	488,159	650,837	390,027	384,676	490,967	402,518	460,463	530,828	531,372	693,699	528,617	545,349	666,121

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

The two Statements hereunder show the extent of Areas Irrigated—(A) during the year 1940-41 in detail, and (B) during the last five years totalled for purposes of comparison.

(A) STATEMENT OF THE EXTENT OF IRRIGATION AND OF AREAS OF DIFFERENT KINDS OF CROPS WATERED
—YEAR 1940-41.

Name of District.	Area of District in Acres.	Area classified as Irrigable within Constituted Districts in acres.	Water Rights Apportioned (including Extra Rights) in Acre Feet.	Area Irrigated, including Lands adjoining a District, in acres.							
				Total Area Irrigated in Acres.	Cereals.	Lucerne Grown for Pasture and Hay.	Sorghum and Other Annual Fodder Crops.	Pastures, Native and Sown.	Vineyards.	Orchards or Gardens.	Fallow and Miscellaneous.
<i>Goulburn System.</i>											
Katandra	13,966	11,184	7,336	6,486	435	1,121	185	4,324	..	41	380
North Shepparton	121,722	61,415	13,329	13,159	2,210	2,288	347	8,066	8	118	127
Shepparton	24,487	21,397	21,397	15,083	693	365	243	4,634	60	9,013	75
South Shepparton	33,670	17,923	4,404	5,617	440	1,053	186	3,764	1	173	..
Rodney	272,660	190,293	60,898	76,789	7,113	16,771	1,980	42,829	305	7,401	390
Tongala-Stanhope	76,160	47,763	47,889	39,871	3,132	9,467	1,144	23,573	27	1,975	553
Rochester	181,315	56,924	57,320	61,284	3,871	10,952	1,450	43,152	17	1,545	297
Dingee	8,849	4,361	4,361	4,151	208	90	126	3,688	..	11	28
Callivil	61,135	32,744	6,548	12,542	798	2,013	789	8,782	..	79	81
Tragowel Plains	218,358	148,275	31,105	50,706	6,433	1,372	5,602	37,118	..	9	172
Deakin	161,562	14,092	..	5,086	839	1,188	366	2,656	..	3	34
Boort	80,074	56,718	11,339	24,741	4,350	1,186	3,728	14,672	..	..	805
Totals	1,253,958	663,089	265,926	315,515	30,522	47,866	16,146	197,258	418	20,363	2,942
<i>River Murray System.</i>											
<i>(a) Torrumbarry Weir.</i>											
Leitchville	13,807	12,109	4,258	8,658	325	778	102	7,403	..	36	14
Cohuna	71,899	35,445	35,631	42,913	2,099	2,938	825	34,531	..	162	2,358
Koondrook	82,687	23,244	23,244	28,001	2,680	1,755	2,608	19,134	10	867	947
Swan Hill	36,478	21,925	21,928	21,428	2,611	4,640	1,259	7,968	3,540	686	724
Third Lake	11,482	3,771	2,513	3,199	356	96	204	2,526	..	7	10
Mystic Park	20,260	7,928	2,690	3,540	731	55	321	2,388	..	..	45
Tresco	3,482	2,000	..	1,048	35	38	..	..	732	204	39
Fish Point	8,327	3,756	1,845	3,702	197	108	354	3,043	..	..	..
Kerang	85,321	54,784	18,901	38,303	3,732	1,260	3,565	29,303	8	14	421
Dry Lake	1,806	779	..	680	75	..	110	470	..	..	25
Kerang North-West Lakes	35,943	..	..	6,065	519	283	625	4,270	..	368	..
Lands (outside Districts) supplied .. .. .	..	..	..	19,825	2,086	2,356	1,402	13,262	..	479	240
Totals	369,492	165,741	111,010	177,362	15,446	14,307	11,375	124,298	4,290	2,823	4,823
<i>(b) Yarrawonga Weir.</i>											
Murray Valley	62,986	48,022	13,986	7,115	1,226	626	1,312	2,050	..	921	980
<i>(c) Supplied by Pumping Direct from River.</i>											
Nyah	3,831	2,828	7,372	2,983	34	192	34	51	2,498	130	44
Red Cliffs	30,956	11,283	29,206	11,295	..	165	..	50	10,635	445	..
Merbein	10,353	7,772	19,430	7,824	63	84	..	108	6,952	557	60
Totals	45,140	21,883	55,008	22,102	97	441	34	209	20,085	1,132	104
Totals (River Murray System)	477,618	235,646	180,004	206,579	16,769	15,374	12,721	126,557	24,375	4,876	5,907
<i>Other Northern Systems.</i>											
Coliban .. .. .	..	10,431	..	5,391	49	144	65	874	26	4,183	50
Campaspe	19,725	..	..	868	303	167	..	189	..	9	..
Western Wimmera .. .. .	..	3,000	..	2,566	..	314	67	857	65	1,259	6
Wimmera United .. .. .	..	410	..	129	..	43	45	41	..	..	..
Totals	19,725	13,841	..	8,756	352	668	177	1,961	91	5,451	56
<i>Southern Systems.</i>											
Bacchus Marsh	6,656	3,332	3,332	3,270	..	1,136	90	1,771	..	254	19
Werribee	10,137	8,154	8,155	8,578	24	1,191	270	4,400	..	2,584	109
Mafta-Sale	51,831	22,130	22,141	22,039	549	1,664	815	16,707	1	..	2,308
Totals	68,624	33,616	33,628	33,887	573	3,991	1,175	22,878	1	2,838	2,431
<i>Mildura and Private Diversions.</i>											
First Mildura District	44,000	15,494	..	12,241	..	612	190	50	10,210	1,027	152
Private Diversions—Kerang (outside Districts) .. .. .	..	..	..	2,801	208	35	377	2,173	..	..	8
Other Private Diversions throughout the State .. .. .	..	..	..	16,883	5,075	5,104	1,373	1,679	956	1,797	899
Totals	44,000	15,494	..	31,925	5,283	5,751	1,940	3,902	11,166	2,824	1,059
Grand Totals, 1940-41	1,863,925	961,686	479,558	598,662	53,499	73,050	32,159	352,556	36,051	36,352	12,395
Grand Totals, 1939-40	1,823,719	906,982	464,916	517,903	33,207	74,553	14,528	310,504	35,290	37,679	12,142

(B) COMPARATIVE STATEMENT OF THE EXTENT OF IRRIGATION 1936-37 TO 1940-41.

Source of Supply.	Area Under Irrigation (Acres).				
	1936-37.	1937-38.	1938-39.	1939-40.	1940-41.
Goulburn System	267,830	311,059	259,676	263,795	315,515
River Murray System	176,370	210,084	183,573	176,697	206,579
Other Northern Systems	14,671	7,315	3,994	13,867	8,756
Southern Systems	29,043	31,444	32,687	34,406	33,887
Mildura and Private Diversions	30,913	30,210	35,427	29,138	31,925
Totals	518,827	590,112	515,357	517,903	596,662

The total area irrigated was a record one of 596,662 acres, the largest area previously irrigated in any one year being 590,112 acres in 1937-38.

APPENDIX E.
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 is 1,963,460 acre feet. The Hume Reservoir, designed to contain 2,000,000 acre feet (half of which can, subject to the provisions of the River Murray Agreement, be credited to the State of Victoria), now has a capacity of 1,250,000 acre feet. When the final stage of this work has been completed (involving further approval of the interested State Governments), and the Lauriston, Rocklands and Glenmaggie Reservoirs are completed, the combined capacities of Victoria's storages will be 2,663,960 acre feet.

EXISTING STORAGES.

Storage.										Full Supply Reduced Level.	Capacity.	
										feet	Acre feet	Acre feet
<i>Goulburn System—</i>												
Eildon	..	..	..	..	..	..	..	..	823 00	306,000	
Goulburn Weir	..	..	..	..	..	..	..	..	408 00	20,700	
Waranga	..	..	..	..	..	..	..	..	398 00	333,400	
												660,100
<i>Murray-Loddon System—</i>												
Hume Reservoir	..	..	..	1,250,000	..				606 00 (a)		
Yarrawonga Weir	..	..	..	95,120	..				412 80 (b)		
Torrumbarry	..	..	..	28 900	..				285 00 (c)		
Euston	..	..	..	31,320	..				159 00 (c)		
Mildura	..	..	..	29,360	..				116 00 (c)		
Wentworth	..	..	..	38,140	..				104 15 (c)	736,420	
Kow Swamp	..	..	..	..	..	..	..	..	272 00	40,860	
Laanecoorie	..	..	..	..	..	..	..	..	527 00	6,650	
<i>Kerang North-West Lakes—</i>												
Third, Middle, Reedy	..	..	..	..	..	..	..	..	244 75		
Kangaroo, Racecourse, Charm	..	..	..	..	..	..	..	..	241 00	69,400	
Cullens	..	..	..	..	..	..	..	..	240 25		
Lake Boga	..	..	..	..	..	..	..	..	226 50	29,650	
<i>Wimmera-Mallee System—</i>												882,980
Fyans Lake	..	..	..	..	..	..	..	..	673 00	17,100	
Lake Lonsdale	..	..	..	..	..	..	..	..	618 25	53,300	
Wartook	..	..	..	..	..	..	..	..	1,500 00	23,800	
Taylor's Lake	..	..	..	..	..	..	..	..	482 33	30,000	
Pine Lake	..	..	..	..	..	..	..	..	475 00	52,000	
Green Lake	..	..	..	..	..	..	..	..	452 50	6,600	
Dock Lake	..	..	..	..	..	..	..	..	442 00	4,800	
Moora	..	..	..	..	..	..	..	..	723 50	5,100	
Lower Wimmera Weirs	..	..	..	..	..	..	..	..	..	2,870	
Batyo Catyo (Avon Regulator)	..	..	..	..	..	..	..	..	402 00	5,000	
Lake Whittou	..	..	..	..	..	..	..	..	375 00	1,300	
Township Reservoirs and Mallee Tanks	..	..	..	..	..	..	..	..	..	6,610	
<i>Maffra-Sale System—</i>												208,480
Glenmaggie	..	..	..	..	..	..	..	..	244 00	104,500	
Stratford Service Basins	..	..	..	..	..	..	..	..	..	20	
<i>Coliban System—</i>												104,520
Upper Coliban	..	..	..	..	..	..	..	..	1,652 00	25,700	
Malmsbury	..	..	..	..	..	..	..	..	1,477 00	14,400	
Spring Gully	..	..	..	..	..	..	..	..	899 00	2,000	
Subsidiary Reservoirs	..	..	..	..	..	..	..	..	..	4,750	
<i>Werribee System—</i>												46,850
Pykes Creek	..	..	..	..	..	..	..	..	1,306 00	21,000	
Melton	..	..	..	..	..	..	..	..	273 00	19,100	
<i>Bellarine Peninsula System—</i>												40,100
Wurdee Boluc	..	..	..	..	..	..	..	..	441 50	10,000	
Service Basins	..	..	..	..	..	..	..	..	..	760	
<i>Mornington Peninsula System—</i>												10,760
Lysterfield	..	..	..	..	..	..	..	..	221 50	3,400	
Beaconsfield	..	..	..	..	..	..	..	..	340 00	740	
Frankston	..	..	..	..	..	..	..	..	255 00	660	
Mornington	..	..	..	..	..	..	..	..	244 00	260	
Bittern	..	..	..	..	..	..	..	..	250 00	480	
Service Basins	..	..	..	..	..	..	..	..	..	260	
<i>Otway System—</i>												5,800
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
Total Capacity of Existing Storages										1,963,480
ADDITIONAL STORAGE BEING PROVIDED BY WORKS IN COURSE OF CONSTRUCTION.												
<i>Wimmera-Mallee System—</i>												
Rocklands	..	..	..	..	..	..	..	..	644 00	..	264,000
<i>Coliban System—</i>												16,000
Lauriston	..	..	..	..	..	..	..	..	1,574 20	..	
FURTHER STORAGE WHICH COULD BE PROVIDED BY COMPLETION OF EXISTING WORKS.												
<i>Maffra-Sale System—Glenmaggie to 150,000 acre feet</i>										255 00	45,500	
<i>Murray System—Hume Reservoir to 2,000,000 acre feet (half share to Victoria)</i>										626 00	375,000	
												420,500
TOTAL CAPACITY OF STORAGES WHEN WORKS ARE COMPLETED										2,663,980

APPENDIX F.

STATE RIVERS AND WATER SUPPLY COMMISSION.

WATER SUPPLY STATISTICS.

1940-41.

SUMMARY RELATING TO WATER SUPPLY IN VICTORIA.

Victoria—Area	..	..	..	..	..	..	87,884 square miles (56,000,000 acres)
Rainfall	..	..	..	..	..	..	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 "	..	..	..	..	6,671	" " = 7.6	" " "
50 " 60 "	..	..	..	..	2,660	" " = 3.0	" " "
Over 60 inches	..	..	..	..	2,171	" " = 2.5	" " "
Total	..	..	..	..	87,884	" "	
Expenditure Country Water Supply to 30th June, 1941—(a) Borne by the State							£21,575,754 14 3
(b) Borne by the Districts							£6,043,483 17 3
Total							£27,619,238 11 6
Channels—Length—							
Irrigation Supply	..	..	..	..	..	..	4,286 miles
Domestic and Stock Supply	..	..	..	..	..	..	8,243 miles
Drainage	..	..	..	..	..	..	2,099 miles
Total	..	..	..	..	..	..	14,628 miles
Area of lands in Victoria artificially supplied with water for domestic and stock purposes by channels, tanks, and bores							
							15,142,000 acres
<i>This represents over one-quarter of the total area of the State—actually two-fifths of the agricultural lands.</i>							
Area commanded by irrigation channels	..	..	..	..	..	..	2,163,900 acres
Area Irrigated—1940-41	..	..	..	..	..	..	596,662 acres
Area benefited by Flood Protection Works	..	..	..	..	..	..	151,950 acres
Storages—							
Present capacity	..	..	..	..	..	..	1,963,460 acre feet
Additional storage being provided by works in course of construction	..	..	..	..	..	..	280,000 acre feet
Rural Districts administered by Commission—							
Irrigated Districts—Water supplied for cultivation	..	..	..	..	..	..	30 districts
Domestic and Stock Districts—Water supplied to fill excavated storage tanks	..	..	..	..	..	..	32 districts
Flood Protection Districts	..	..	..	..	..	..	4 districts
Waterworks Trusts and Local Governing Bodies supervised by Commission	..	..	..	..	..	..	134 districts
Sewerage Authorities supervised by Commission	..	..	..	..	..	..	38 districts
Country Towns—Reticulated pipe supplies for domestic use—							
Administered by Commission	..	..	..	..	..	..	126 towns
" " Waterworks Trusts	..	..	..	..	..	..	116 towns
" " Local Governing Bodies	..	..	..	..	..	..	16 towns
Total Population in Country Towns supplied with water	..	..	..	..	..	..	473,900 persons